

ภาคผนวก 5

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง

ผลตรวจน้ำทิ้ง เดือน 1



United Analyst and Engineering Consultant Co., Ltd.

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NSC-TISI-TIS 17025
TESTING 0207TESTING
No. 0053

ANALYSIS REPORT

CUSTOMER NAME	: THE PRESIDENT SUKHUMVIT BUILDING B	RECEIVED DATE	: JANUARY 18, 2023
ADDRESS	: 2081 SOI SUKHUMVIT 81 PHRA KHANONG NUEA WATTANA BANGKOK 10110	ANALYTICAL DATE	: JANUARY 18-25, 2023
CONTACT INFORMATION	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	REPORT NO.	: 2023-U006841
SAMPLING SOURCE	: นิติบุคคลอาคารชุด เดอะ เพรสซิเดนซ์ สุขุมวิท อาคาร B	WORK NO.	: 2022-010681
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T23AA881-0001
SAMPLING DATE	: JANUARY 18, 2023		
SAMPLING TIME	: 13:50 HOUR		
SAMPLING METHOD^a	: GRAB		
SAMPLING BY^c	: MR APISIT SRIKONGKAEW		
ANALYZED BY	: MISS ARIYA THARAROM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T23AA881-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H ⁺ B)	7.6 (27°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM 4500-O ₂ G AND 5210 B)	58.8	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	35.7	≤ 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	374	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM 2540 F)	< 0.1	≤ 0.5	0.1
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	13.2	≤ 35	15
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM 5520 B)	ND	≤ 20	3
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 ACCREDITEDIN-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 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

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



ผลตรวจน้ำทิ้ง เดือน 2



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NSC-TISI-TIS 17025
TESTING 0267TESTING
No. 0053

ANALYSIS REPORT

CUSTOMER NAME	: THE PRESIDENT SUKHUMVIT BUILDING B	RECEIVED DATE	: FEBRUARY 17, 2023
ADDRESS	: 2081 SOI SUKHUMVIT 81 PHRA KHANONG NUEA WATTHANA BANGKOK 10110	ANALYTICAL DATE	: FEBRUARY 17-24, 2023
CONTACT INFORMATION	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	REPORT NO.	: 2023-U013892
SAMPLING SOURCE	: นิติบุคคลอาคารชุด เดอะ เพรสซิเด็นท์ สุขุมวิท อาคาร บี	WORK NO.	: 2022-010681
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T23ACB53-0001
SAMPLING DATE	: FEBRUARY 17, 2023		
SAMPLING TIME	: 13:50 HOUR		
SAMPLING METHOD ^c	: GRAB		
SAMPLING BY ^c	: MR ACHITA SAENGJAN		
ANALYZED BY	: MISS ARIYA THARAROM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T23ACB53-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H ⁺ B)	7.9 (27°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O ₂ G AND 5210 B)	15.0	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	212	≤ 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	264	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: 2540 F)	0.2	≤ 0.5	0.1
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	11.7	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

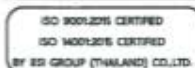
^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITEDIN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, 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 AND VOL. 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

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.

FEBRUARY 28, 2023



- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



ผลตรวจน้ำทิ้ง เดือน 3



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NSC-TISI-TIS 17025
TESTING 0207TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME	: THE PRESIDENT SUKHUMVIT BUILDING B	RECEIVED DATE	: MARCH 20, 2023
ADDRESS	: 2081 SOI SUKHUMVIT 81 PHRA KHANONG NUEA WATTHANA BANGKOK 10110	ANALYTICAL DATE	: MARCH 20-27, 2023
CONTACT INFORMATION	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	REPORT NO.	: 2023-U022753
SAMPLING SOURCE	: นิติบุคคลอาคารชุด เดอะ เพรสซิเด็นท์ สุขุมวิท อาคาร บี	WORK NO.	: 2022-010681
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T23AE943-0001
SAMPLING DATE	: MARCH 20, 2023		
SAMPLING TIME	: 11:30 HOUR		
SAMPLING METHOD ^a	: GRAB		
SAMPLING BY ^c	: MR ACHITA SAENGJAN		
ANALYZED BY	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T23AE943-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.6 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	23.6	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	24.8	≤ 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: PART 2540 C	327	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 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: PART 4500-Norg C	13.9	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			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 ACCREDITEDIN-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.

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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.



ผลตรวจน้ำทิ้ง เดือน 4



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NSC - TISI - TIS 17025
TESTING 0207LABORATORY ACCREDITED
No. 0063

ANALYSIS REPORT

CUSTOMER NAME	: THE PRESIDENT SUKHUMVIT BUILDING B	RECEIVED DATE	: APRIL 20, 2023
ADDRESS	: 2081 SOI SUKHUMVIT 81 PHRA KHANONG NUEA WATTHANA BANGKOK 10110	ANALYTICAL DATE	: APRIL 20 - MAY 2, 2023
CONTACT INFORMATION	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	REPORT NO.	: 2023-U032163
SAMPLING SOURCE	: นิติบุคคลอาคารชุด เดอะ เพรสซิเด็นท์ สุขุมวิท อาคาร B	WORK NO.	: 2022-010681
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T23AH012-0001
SAMPLING DATE	: APRIL 20, 2023		
SAMPLING TIME	: 10:30 HOUR		
SAMPLING METHOD ^c	: GRAB		
SAMPLING BY ^c	: MR. ACHITA SAENGJAN		
ANALYZED BY	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T23AH012-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.8 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	14.3	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	27.1	≤ 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: PART 2540 C	360	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 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: PART 4500-Norg C	216	≤ 35	15
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			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 ACCREDITEDIN-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.

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

ND : NON-DETECTABLE.



ผลตรวจน้ำทิ้ง เดือน 5



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NSC-TISI-TIS 17025
TESTING 0207TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME	: THE PRESIDENT SUKHUMVIT BUILDING B	RECEIVED DATE	: MAY 26, 2023
ADDRESS	: 2081 SOI SUKHUMVIT 81 PHRA KHANONG NUEA WATTHANA BANGKOK 10110	ANALYTICAL DATE	: MAY 26-JUNE 6, 2023
CONTACT INFORMATION	: TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com	REPORT NO.	: 2023-U044900
SAMPLING SOURCE	: นิติบุคคลอาคารชุด เดอะ เพรสซิเด็นท์ สุขุมวิท อาคาร บี	WORK NO.	: 2022-010681
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T23AJ785-0001
SAMPLING DATE	: MAY 26, 2023		
SAMPLING TIME	: 12:10 HOUR		
SAMPLING METHOD ^c	: GRAB		
SAMPLING BY ^c	: MR ACHITA SAENGJAN		
ANALYZED BY	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			EFFLUENT T23AJ785-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.4 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	27.4	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	22.9	≤ 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: PART 2540 C	320	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 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: PART 4500-Norg C	44.8	≤ 35	15
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

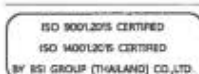
^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITEDIN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE.

JUNE 8, 2023



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