

ภาคผนวก ง

หนังสือรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

ภาคผนวก ง-1

ผลการตรวจวิเคราะห์คุณภาพน้ำเสีย-น้ำทิ้ง โดย
ห้องปฏิบัติการ

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1789 SINGHA COMPLEX, 15TH FLOOR NEW PETCHABURI RD. BANG KAPI HUA KHANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchayap@singhaestate.co.th
SAMPLING SOURCE : SINGHA COMPLEX BUILDING
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : JULY 24, 2023
SAMPLING TIME : 11:20 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS JASARIN BUNKONG

RECEIVED DATE : JULY 24, 2023
ANALYTICAL DATE : JULY 24-AUGUST 2, 2023
REPORT NO. : 2023-UD63919
WORK NO. : 2023-000594
ANALYSIS NO. : T23AQ222-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT T23AQ222-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H ⁺ B)	8.4 (20°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G)	272	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	330	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^a	mg/L	IN-HOUSE METHOD: UAE-TP-WAO-007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM PART 2540 C	581	500 ^b	25
SETTLABLE SOLIDS ^c	mL/L	WHOFF CONE (SM PART 2540 F)	40.0	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM PART 4500-S ⁻ F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAS-001 (KJELDAHL METHOD); SM PART 4500-Norg C	131	≤ 35	15
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	18	≤ 20	3

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Pyapol S.
(MRS PIYAPAT SUTTANANUTWONG)
LABORATORY SUPERVISOR

AUGUST 3, 2023

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2023-J063919

- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME
 : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS
 : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PETCHABURI RD. BANG KAPI HUAI KHANG BANGKOK 10310
CONTACT INFORMATION
 : TEL : 08 1560 5406 e-mail : pruchya.p@singhaestate.co.th
SAMPLE TYPE
 : EFFLUENT
SAMPLING DATE
 : JULY 24, 2023
SAMPLING TIME
 : 10:50 HOUR
SAMPLING METHOD
 : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY
 : MR ANUSART SUAYDEE
ANALYZED BY
 : MISS AKSARIN BUNKONG

RECEIVED DATE
 : JULY 24, 2023
ANALYTICAL DATE
 : JULY 24-AUGUST 2, 2023
REPORT NO.
 : 2023-U063921
WORK NO.
 : 2023-000594
ANALYSIS NO.
 : T23A0222-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T23A0222-0003	REGULATORY STANDARD	DETECTION LIMIT
pH *	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H B)	6.6 (STC)	5-9	-
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	12.3	≤ 20	2.0
SUSPENDED SOLIDS *	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	20.9	≤ 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	490	500*	25
SETTLABLE SOLIDS *	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE *	mg/L	IODOMETRIC METHOD (SM: PART 4500-S- F)	< 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	19.7	≤ 35	1.5
FAT, OIL AND GREASE *	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T23A0222-0003	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA *	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221B)	54,000	-	18
FAECAL COLIFORM BACTERIA *	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221E)	17,000	-	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

* : 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 A, NOTIFICATION OF THE

MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 92,

PART 128 D, DATED DECEMBER 28, 2005 AND VOL. 98 SPECIAL PART 171 D, DATED JULY 21, 2022.

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

ND : NON-DETECTABLE.


 (MRS PIVAPAT SUTTANANTWONG)
 LABORATORY SUPERVISOR

AUGUST 3, 2023

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ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAPI HUAI KHUANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLING SOURCE : SINGHA COMPLEX BUILDING
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JULY 24, 2023
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYOE
ANALYZED BY : MISS ANSARIN BUNKONG

RECEIVED DATE : JULY 24, 2023
ANALYTICAL DATE : JULY 24-AUGUST 2, 2023
REPORT NO. : 2023-0063920
WORK NO. : 2023-000594
ANALYSIS NO. : T23A0222-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H B)	6.7 (82°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O G)	13.2	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	28.1	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: LAE TP: WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM PART 2540 C	426	500 ^c	25
SETTLABLE SOLIDS ^c	mg/L	IN-HOUSE METHOD: LAE TP: WAS.001 (KJELDAHL METHOD); SM PART 4500-NH ₃ C	0.1	≤ 0.5	0.1
SULPHIDE ^d	mg/L	IODOMETRIC METHOD (SM PART 4500-S ^e F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: LAE TP: WAS.001 (KJELDAHL METHOD); SM PART 4500-NH ₃ C	18.1	≤ 35	1.5
FAT, OIL AND GREASE ^e	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 20	3

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NO SOLUBLE OILS
 NO SUSPENDED SOLIDS
 NO TOTAL DISSOLVED SOLIDS

NO SOLUBLE OILS
 NO SUSPENDED SOLIDS
 NO TOTAL DISSOLVED SOLIDS

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221B)	463,000	-	18
FACIAL COULFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221E)	54,000	-	18
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 A, NOTIFICATION OF THE

MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 92,

PART 125 D, DATED DECEMBER 28, 2005 AND VOL. 139 SPECIAL PART 171 D, DATED JULY 21, 2022.

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

ND : NON-DETECTABLE.

Piyapat S.
 (MISS PIYAPAT SUTTANANUTWONG)
 LABORATORY SUPERVISOR

AUGUST 3, 2023

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NO SOLUBLE OILS
 NO SUSPENDED SOLIDS
 NO TOTAL DISSOLVED SOLIDS

- End of Analysis Report -

2023-0063920

United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail:uae@uaeconsultant.com

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAPI HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : AUGUST 23, 2023
SAMPLING TIME : 13:25 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUANDEE
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : AUGUST 23, 2023
ANALYTICAL DATE : AUGUST 23-31, 2023
REPORT NO. : 2023-U073177
WORK NO. : 2023-000594
ANALYSIS NO. : T23AQ401-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ค่าวิเคราะห์ T23AQ401-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.9 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	374	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	366	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAQ.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	456	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	24.0	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ²⁻ F)	2.4	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	128	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	≤ 20	3

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BY BS GROUP (THAILAND) CO., LTD.

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United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail:uae@uaeconsultant.com

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ค่าวิเคราะห์ T23AQ401-0001	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>80,000	-	18
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>80,000	-	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

* : 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 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.

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

500*

Piyapol S.
(MRS PIYAPAT SUTTAMANITWONG)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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2023-U073177

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- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAPT HUAI KHUANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : SEPTEMBER 25, 2023
SAMPLING TIME : 12:20 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : SEPTEMBER 25, 2023
ANALYTICAL DATE : SEPTEMBER 25-OCTOBER 3, 2023
REPORT NO. : 2023-U084121
WORK NO. : 2023-000594
ANALYSIS NO. : T23AT052-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.6 (20°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	236	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	401	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAQ.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	484	500 ^c	25
SETTLABLE SOLIDS ^c	m/L	IMHOFF CONE (SM: PART 2540 F)	42.0	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IDOMETRIC 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	139	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	12	≤ 20	3

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BY RS GROUP (THAILAND) CO., LTD.

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9211 B)	> 160,000	-	1.8
FACAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 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 A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122, PART 125 D, DATED DECEMBER 26, 2005 AND VOL. 138 SPECIAL PART 171 D, DATED JULY 21, 2022.

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

Piyapol S.
(MIS PIYAPAT SUTTANANUTWONG)
LABORATORY SUPERVISOR

OCTOBER 4, 2023

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BY RS GROUP (THAILAND) CO., LTD.

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2023-U084121

- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PETCHABURI RD. BANG KAPI HUAI KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLING SOURCE : SINGHA COMPLEX BUILDING
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 25, 2023
SAMPLING TIME : 11:40 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : SEPTEMBER 25, 2023
ANALYTICAL DATE : SEPTEMBER 25-OCTOBER 3, 2023
REPORT NO. : 2023-U084122
WORK NO. : 2023-000594
ANALYSIS NO. : T23AT052-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ข้อมูลผลวิเคราะห์ T23AT052-0002	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	5.8 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	6.2	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	33.8	≤ 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	452	500 ^c	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 _P F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	15
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ข้อมูลผลวิเคราะห์ T23AT052-0002	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	3,300	-	18
FACAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	2,400	-	18
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 A, NOTIFICATION OF THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 92, PART 125 D, DATED DECEMBER 28, 2005 AND VOL. 93 SPECIAL PART 171D, DATED JULY 21, 2002.

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

ND : NON-DETECTABLE

< LOQ : < LIMIT OF QUANTIFICATION (TOTAL KJELDAHL NITROGEN ≥ 15 AND ≤ 5.0 mg/L).

Piyapol S.

(MISS PIPAT SUTTANANTWONG)
LABORATORY SUPERVISOR

OCTOBER 4, 2023

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2023-U084122

- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAP1 HUAL KHUANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLING SOURCE : SINGHA COMPLEX BUILDING
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 25, 2023
SAMPLING TIME : 12:00 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUJYDEE
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : SEPTEMBER 25, 2023
ANALYTICAL DATE : SEPTEMBER 25-OCTOBER 3, 2023
REPORT NO. : 2023-U084123
WORK NO. : 2023-000394
ANALYSIS NO. : T23AT052-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T23AT052-0003	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	4.0 (3°C)	5-9	-
BIO-CHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.5	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	31.5	≤ 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	588	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 _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	< LOQ	≤ 35	15
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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BY SGS GROUP (THAILAND) CO., LTD.

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Piyapol S.
(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

OCTOBER 4, 2023

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2023-U084123

RECEIVED DATE	: OCTOBER 25, 2023
ANALYTICAL DATE	: OCTOBER 25 - NOVEMBER 1, 2023
REPORT NO.	: 2023-U093827
WORK NO.	: 2023-000594
ANALYSIS NO.	: T23AV171-0001

100 PRODUCTS OFFERED
150 LOCATIONS OFFERED
BY ISI GROUP (THAILAND) CO., LTD.

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1. The first step is to identify the problem or question that needs to be addressed. This involves understanding the context and the specific requirements of the task.

2. Next, it is important to gather relevant information and data. This can be done through research, consultation with experts, or by analyzing existing data sets.

3. Once the information is gathered, the next step is to develop a plan or strategy to address the problem. This plan should outline the steps to be taken and the resources needed.

4. The fourth step is to implement the plan. This involves carrying out the tasks outlined in the plan and monitoring progress as it goes.

5. Finally, it is important to evaluate the results of the implementation. This involves comparing the actual outcomes with the expected results and identifying any areas for improvement.

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Piyapal S.
(MRS PIYPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

NOVEMBER 3, 2023

ภาคผนวก ง1-10

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAP1 HUAJ KHWANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : prudeya.p@singhaestate.co.th
SAMPLE TYPE : SINGHA COMPLEX BUILDING
SAMPLING DATE : OCTOBER 25, 2023
SAMPLING TIME : 10:30 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS ARVYA THARAROM

RECEIVED DATE : OCTOBER 25, 2023
ANALYTICAL DATE : OCTOBER 25 - NOVEMBER 1, 2023
WORK NO. : 2023-U093828
ANALYSIS NO. : 2023-000594
: T23AV171-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการตรวจพบ ปริมาณ (Percent) T23AV171-0002	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	3.8 (5°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.5	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.9	≤ 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	584	500 ^c	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	< LOQ	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการตรวจพบ ปริมาณ (Percent) T23AV171-0002	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	< 18	-	18
FACCAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 18	-	18
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

• : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
• : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
• : 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 OF 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 105 D, DATED DECEMBER 29, 2005 AND VOL. 139 SPECIAL PART 171 D, DATED JULY 21, 2022.
500^c : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.
ND : NON-DETECTABLE.

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

Lyepel S.
(MRS PIYAPAT SUTTAMANTWONG)
LABORATORY SUPERVISOR

NOVEMBER 3, 2023

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2023-11093828

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAPI HUAI KHUANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLING SOURCE : SINGHA COMPLEX BUILDING
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : NOVEMBER 23, 2023
SAMPLING TIME : 11:40 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS ANSARIN BUNKONG

RECEIVED DATE : NOVEMBER 23, 2023
ANALYTICAL DATE : NOVEMBER 23-29, 2023
REPORT NO. : 2023-U104342
WORK NO. : 2023-000594
ANALYSIS NO. : T23AX468-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT T23AX468-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.2 (28°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	452	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	612	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAQ.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103- 105 °C); SM: PART 2540 C	371	500*	25
SETTLABLE SOLIDS ^c	mL/L	IMHOFF CONE (SM: PART 2540 F)	44.0	≤ 0.5	0.1
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S ²⁻ F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE-TP-WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	152	≤ 35	1.5
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	12	≤ 20	3

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 BY ISI GROUP (THAILAND) CO., LTD.

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT T23AX468-0001	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	>160,000	-	1.8
FACCAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

* : 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 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.

Piyapol S.
 (MRS PIYAPAT SUTTAMANUTWONG)
 LABORATORY SUPERVISOR

DECEMBER 4, 2023

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 BY ISI GROUP (THAILAND) CO., LTD.

2023-U104342

ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAPI HUALI KHUANG BANGKOK 10310
CONTACT INFORMATION : TEL : 08 1560 5406 e-mail : pruchaya.p@singhaestate.co.th
SAMPLE TYPE : SINGHA COMPLEX BUILDING
SAMPLING DATE : NOVEMBER 23, 2023
SAMPLING TIME : 11:30 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : NOVEMBER 23, 2023
ANALYTICAL DATE : NOVEMBER 23-29, 2023
REPORT NO. : 2023-U104351
WORK NO. : 2023-000594
ANALYSIS NO. : T23AX468-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T23AX468-0003	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	6.3 (30°C)	5-9	-
BIO-CHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	13.4	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	105	≤ 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	370	500 ^c	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	44.2	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT EFFLUENT T23AX468-0003	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^a	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	35,000	-	1.8
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	17,000	-	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 A, NOTIFICATION OF THE
MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 122.

PART 125 D, DATED DECEMBER 28, 2005 AND VOL. 139 SPECIAL PART 1710, DATED JULY 21, 2022

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

-- : ADDITION OF NITRIFICATION INHIBITION (ITOMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NON-DETECTABLE.

Piyapat S.
(MRS PIYAPAT SUTTANANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 4, 2023

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2023-U104351

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ANALYSIS REPORT

CUSTOMER NAME : SINGHA PROPERTY DEVELOPMENT CO., LTD.
ADDRESS : 1788 SINGHA COMPLEX, 15TH FLOOR NEW PHETCHABURI RD. BANG KAPI HUAI KHUANG BANGKOK 10310

CONTACT INFORMATION
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : NOVEMBER 23, 2023
SAMPLING TIME : 11:20 HOUR
SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY : MR. ANUSART SUAYDEE
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : NOVEMBER 23, 2023
ANALYTICAL DATE : NOVEMBER 23-29, 2023
REPORT NO. : 2023-U104349
WORK NO. : 2023-000594
ANALYSIS NO. : T23AX468-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการตรวจวิเคราะห์ T23AX468-0002	REGULATORY STANDARD	DETECTION LIMIT
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	6.9 (20°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^{a, b}	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	14.7	≤ 20	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	115	≤ 30	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	IN-HOUSE METHOD: UAE TP-WAQ.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103- 105 °C); SM: PART 2540 C	350	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-Morg C	45.9	≤ 35	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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BY ISO GROUP (THAILAND) CO., LTD.

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการตรวจวิเคราะห์ T23AX468-0002	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 B)	54,000	-	18
FACIAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	54,000	-	18
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

* : 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 A, NOTIFICATION OF THE

MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 92,

PART 126 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.

** : ADDITION OF NITRIFICATION INHIBITION (TOMP) FOLLOW TO THE SM-5210B.2(e).

ND : NON-DETECTABLE.

ND : NON-DETECTABLE.

Piyapat S.
(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 4, 2023

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2023-U104349

- End of Analysis Report -

ผลการตรวจวิเคราะห์คุณภาพน้ำหอฝิ่งเย็นโดยห้องปฏิบัติการ

**บริษัท ศูนย์วิเคราะห์น้ำ จำกัด****WATER ANALYSIS CENTER COMPANY LIMITED**

1/94 หมู่ 5 ต. คานหาม อ. อุทัย จ. พระนครศรีอยุธยา 13210
1/94 Moo 5, T.Kanhom, A.U-Thai, Ayutthaya 13210, Thailand
Tel : 035-226-363 , 035-800-593 Fax : 035-800-594



TESTING
No.0029

ANALYSIS REPORT

Page 1 of 1

Customer Name : บริษัท สิงห์ พร็อพเพอร์ตี้ ดีเวลลอปเม้นท์ จำกัด
Address : 1788 อาคารสิงห์ คอมเพล็กซ์ ชั้น 15 ถนนเพชรบุรีตัดใหม่ แขวงบางกะปิ เขตห้วยขวาง กรุงเทพมหานคร
Contact : คุณเปรีชญ่า **Phone** : 081-5605406 **E.mail** : tum_3@hotmail.com
Samplly Type : Water **Sample Site#** : โครงการ สิงห์ คอมเพล็กซ์ **Sampling Method#** : Grab
Sampling Date# : 30/11/2023 **Sampling By#** : WAC **Receive Date** : 01/12/2023
Analysis Date : 01-15/12/2023 **Report Date** : 15/12/2023 **Report No.** : RWS 04418/66

Parameter	Unit	Method	PWS 07358/66 จุดที่น้ำไหลมาเดิม ในระบบ	PWS 07359/66 ในอ่างรองรับน้ำ	PWS 07380/66 ท่อน้ำทิ้งจากห้องฝั่ง เย็น
pH	-	In-house method: TM 001	7.7 (25°C)	8.6 (25°C)	8.6 (25°C)
Total Plate Count	CFU/mL	Pour Plate Method	59 #	1.1 x 10 ³ #	1.6 x 10 ³ #
<i>Legionella pneumophila</i>	CFU/1000 mL	ISO 11731 : 2017	ตรวจไม่พบ** #	ตรวจไม่พบ** #	ตรวจไม่พบ** #
Sample Characterization	Observation	ใส	ใส	ใส	

Remark : 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

* It is outside the scope of ISO/IEC 17025

** วิเคราะห์โดย บริษัท เคมแล็บ เซอร์วิส (ประเทศไทย) จำกัด

-: End Of Report -:

Laboratory Staff

(Miss. Ronnakorn Padungwieng)

Chemist

Approved By

(Mrs. Neeramol Phadungsong)

General Manager

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 ม.ค. 2562 หน้า 1/1

