

ผลการตรวจวัดคุณภาพน้ำภายในโครงการ



United Analyst and Engineering Consultant Co., Ltd.

1500/2000 Highway 10/100 Road, Bangkok, Thailand 10110

Tel: 02-2815150/2/3/4 Fax: 02-2815151 Email: nisanad.v@thelivingos.com



NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : SOCIO INTHAMARA
ADDRESS : 46/2 SOI INTHAMARA 4 SAM SEN NAI PHAYA THAI BANGKOK 10400
CONTACT INFORMATION : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com
SAMPLING SOURCE : โรงโม่หินและหินแตก
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 31, 2023
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR SOMCHART UTHUMRAT
ANALYZED BY : MISS AMONRAT PUTTALEE
RECEIVED DATE : JANUARY 31, 2023
ANALYTICAL DATE : JANUARY 31 - FEBRUARY 7, 2023
REPORT NO. : 2023-U009563
WORK NO. : 2023-000983
ANALYSIS NO. : T23AB600-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการทดสอบคุณภาพ น้ำทิ้งก่อนระบาย ลงแหล่งน้ำ สาธารณะ: ทรายหยาบ โครงการ T23AB600-0003	REGULATORY STANDARD	DETECTION LIMIT
pH ^c		ELECTROMETRIC METHOD AT SITE (SM 4500-H ⁺ B)	7.3 (27°C)	5-9	
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM. 4500-O ₂ G AND 5210 B)	56.2	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	24.2	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE TP WAS 001 (KJELDAHL METHOD), SM. 4500 Norg C	516	≤ 35	15
FAT, OIL AND GREASE ^a	mg/l.	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	>160,000		18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			GREY/TURBID		
SEDIMENT			GREY		

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

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

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

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

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

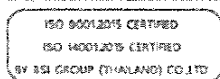
REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS B, NOTIFICATION OF THE
THE MINISTRY OF RESOURCES AND ENVIRONMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE,
VOL 122, PART 125 D, DATED DECEMBER 29, 2005 AND VOL 139 SPECIAL PART 171 D, DATED JULY 21, 2022

ND : NON-DETECTABLE

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

FEBRUARY 13, 2023



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





ANALYSIS REPORT

CUSTOMER NAME : SOCIO INTHAMARA
ADDRESS : 46/2 SOI INTHAMARA 4 SAM SEN NAI PHAYA THAI BANGKOK 10400
CONTACT INFORMATION : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com
SAMPLING SOURCE : โรงบำบัด อินทามระ สะพานควาย
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : MARCH 29, 2023
SAMPLING TIME : 1/
SAMPLING METHOD : GRAB
SAMPLING BY : MR MANIT PANCHOT
ANALYZED BY : MISS AKSARIN BUNKONG
RECEIVED DATE : MARCH 29, 2023
ANALYTICAL DATE : MARCH 29 - APRIL 10, 2023
REPORT NO. : 2023-U026330
WORK NO. : 2023-000983
ANALYSIS NO. : T23AF614-0001 - T23AF614-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD	DETECTION LIMIT
			1 13:40 HOUR 1/ T23AF614-0001	2 13:25 HOUR 1/ T23AF614-0002		
pH ^a	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	6.8 (31°C)	7.6 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	185	153	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	62.4	70.1	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	28.0	97.7	≤ 35	15
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	14	9	≤ 20	3
MICROBIOLOGY						
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	>160,000	-	1.8
SAMPLE CONDITION						
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	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.

RESULT 1 : INFLUENT

RESULT 2 : EFFLUENT

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 11, 2023



ANALYSIS REPORT

CUSTOMER NAME : SOCIO INTHAMARA
ADDRESS : 46/2 SOI INTHAMARA 4 SAM SEN NAI PHAYA THAI BANGKOK 10400
CONTACT INFORMATION : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com
SAMPLING SOURCE : โซซิโอ อินทามระ สะพานควาย
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 25, 2023
SAMPLING TIME : 15:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR PHATSAWUT THOSAKOON
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : APRIL 25, 2023
ANALYTICAL DATE : APRIL 25-MAY 8, 2023
REPORT NO. : 2023-U033876
WORK NO. : 2023-000983
ANALYSIS NO. : T23AH311-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			בודตรวจคุณภาพน้ำ ทั้งก่อนระบาย ลงท่อระบายน้ำ สาธารณะภายนอก โครงการ T23AH311-0003		
pH ^a		ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.7 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	77.8	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	26.3	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	14.9	≤ 35	15
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	-	1.8
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 ACCREDITED

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

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

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

ND : NON-DETECTABLE

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MAY 11, 2023





United Analyst and Engineering Consultant Co., Ltd.

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

Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



NSC-TISI-TIS 17025
TESTING 0207



TESTING
No. 0063

ANALYSIS REPORT

CUSTOMER NAME : SOCIO INTHAMARA
ADDRESS : 46/2 SOI INTHAMARA 4 SAM SEN NAI PHAYA THAI BANGKOK 10400
CONTACT INFORMATION : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com
SAMPLING SOURCE : โรงบำบัด อู่ทองระยอง สหกรณ์การเกษตร
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 23, 2023
SAMPLING TIME : 14:05 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR PHATSAWUT THOSAKOON
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : MAY 24, 2023
ANALYTICAL DATE : MAY 24-JUNE 1, 2023
REPORT NO. : 2023-U044030
WORK NO. : 2023-000983
ANALYSIS NO. : T23AJ501-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลการตรวจคุณภาพน้ำ ทั้งก่อนระบาย ลงสู่ธรรมชาติและ สาธารณะตามหลัก โครงการ T23AJ501-0003		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.8 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	102	≤ 30	2.0
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	30.5	≤ 40	5.0
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE TP WAS 001 (KJELDAHL METHOD); SM: PART 4500-Norg C	80.8	≤ 35	15
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	4	≤ 20	3
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	-	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			GREY/TURBID		
SEDIMENT			GREY		

° : 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.

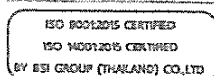
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : RANGE OR MAXIMUM PERMITTED VALUE FOR BUILDING EFFLUENT STANDARDS CLASS 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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JUNE 6, 2023



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



ANALYSIS REPORT

CUSTOMER NAME : SOCIO INTHAMARA
ADDRESS : 46/2 SOI INTHAMARA 4 SAM SEN NAI PHAYA THAI BANGKOK 10400
CONTACT INFORMATION : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com
SAMPLING SOURCE : โซชีโอ อินทามระ สะพานควาย
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 26, 2023
SAMPLING TIME : 13:30 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR PORAWORN BUNNAG
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : JUNE 26, 2023
ANALYTICAL DATE : JUNE 26-JULY 5, 2023
REPORT NO. : 2023-U055201
WORK NO. : 2023-000983
ANALYSIS NO. : T23AM076-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			โปรดตรวจสอบภาพน้ำ ทั้งก่อนระบาย ลงท่อระบายน้ำ สาธารณะภายนอก โครงการ T23AM076-0003		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.5 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	73.2	≤ 30	2.0
SUSPENDED SOLIDS ^a	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	23.9	≤ 40	5.0
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	82.0	≤ 35	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	>160,000	-	1.8
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)

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JULY 7, 2023

