

# ภาคผนวก

ผลการตรวจวิเคราะห์คุณภาพน้ำทิ้ง



## ผลการตรวจคุณภาพน้ำทิ้งจากโครงการ

เดือนกรกฎาคม 2566



**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.uaiconsultant.com E-mail: uae@uaiconsultant.com



TESTING  
No.0063

### ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@theivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JULY 12, 2023  
**SAMPLING TIME** : 13:15 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JULY 12, 2023  
**ANALYTICAL DATE** : JULY 12-20, 2023  
**REPORT NO.** : 2023-U060874  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AN360-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลการวิเคราะห์ T23AN360-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.1 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 30	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAETP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	212	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAETP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	32.9	≤ 35	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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TESTING  
No.0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT เบฟท์ทรี T23AN360-0002	REGULATORY STANDARD	DETECTION LIMIT
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			WHITE/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> 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.

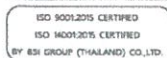
500\* : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JULY 24, 2023



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2023-U060874

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เดือนสิงหาคม 2566



**United Analyst and Engineering Consultant Co., Ltd.**  
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NSC-TISI-TIS 17025  
TESTING 0207



TESTING  
No. 0053

### ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : AUGUST 15, 2023  
**SAMPLING TIME** : 11:50 HOUR  
**SAMPLING METHOD<sup>c</sup>** : GRAB  
**SAMPLING BY<sup>c</sup>** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MISS NATACHA WAENNAJMUANG  
**RECEIVED DATE** : AUGUST 15, 2023  
**ANALYTICAL DATE** : AUGUST 15-22, 2023  
**REPORT NO.** : 2023-U070573  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AP659-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ผลการวิเคราะห์ T23AP659-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.1 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	206	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	88.9	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	413	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	1.4	0.1
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.3	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	40.0	15
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	8	3
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

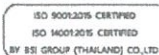
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

AUGUST 25, 2023



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TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 15, 2023  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MISS NATACHA WAENNAIMUANG  
**RECEIVED DATE** : AUGUST 15, 2023  
**ANALYTICAL DATE** : AUGUST 15-24, 2023  
**REPORT NO.** : 2023-U070574  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AP659-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอก.ทก.ป.15 T23AP659-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.2 (32°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 30	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	422	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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TESTING  
No.0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอฬกนฬฬ T23AP659-0002		
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
SAMPLE CONDITION			YELLOW/CLEAR BROWN		
WATER'S COLOUR/TURBID SEDIMENT					

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> 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.

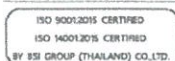
ND : NON-DETECTABLE.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

AUGUST 25, 2023



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2023-U070574

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TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : AUGUST 15, 2023  
**SAMPLING TIME** : 11:55 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR ACHITA SAENGJIAN  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : AUGUST 15, 2023  
**ANALYTICAL DATE** : AUGUST 15-17, 2023  
**REPORT NO.** : 2023-U070575  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AP659-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าประจำ T23AP659-0003	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.5 (30°C)	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	261	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

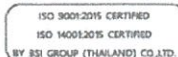
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

AUGUST 25, 2023



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## เดือนกันยายน 2566



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TESTING  
No. 0063

### ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : SEPTEMBER 12, 2023  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : SEPTEMBER 12, 2023  
**ANALYTICAL DATE** : SEPTEMBER 12-20, 2023  
**REPORT NO.** : 2023-U080027  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AR946-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ป้อนรหัส T23AR946-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.3 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>b</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	209	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	109	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	422	25
SETTLABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	1.3	0.1
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	4.2	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	77.5	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	7	3
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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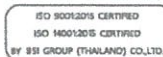
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

SEPTEMBER 25, 2023



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**United Analyst and Engineering Consultant Co., Ltd.**

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NSC-TISI-TIS 17025  
TESTING 0207



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## ANALYSIS REPORT

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**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : SEPTEMBER 12, 2023  
**SAMPLING TIME** : 14:23 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : SEPTEMBER 12, 2023  
**ANALYTICAL DATE** : SEPTEMBER 12-20, 2023  
**REPORT NO.** : 2023-U080028  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AR946-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลพิกษาไรส T23AR946-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.7 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 30	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	240	500*	25
SETTLABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>c</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	≤ 35	1.5
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอพักน้ำใส T23AR946-0002		
RESIDUAL CHLORINE <sup>a</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> 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.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

SEPTEMBER 25, 2023

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2023-U080028

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NSC-TISI-TIS 17025  
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TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : SEPTEMBER 12, 2023  
**SAMPLING TIME** : 14:25 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR WEERAYUT MOKKAEW  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : SEPTEMBER 12, 2023  
**ANALYTICAL DATE** : SEPTEMBER 12-16, 2023  
**REPORT NO.** : 2023-U080029  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AR946-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าปรมาณ T23AR946-0003	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.6 (30°C)	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	260	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

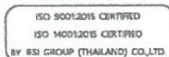
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

SEPTEMBER 25, 2023



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### ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : OCTOBER 25, 2023  
**SAMPLING TIME** : 13:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR ACHITA SAENGJAN  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : OCTOBER 25, 2023  
**ANALYTICAL DATE** : OCTOBER 25-NOVEMBER 1, 2023  
**REPORT NO.** : 2023-U094022  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AV174-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มัลติเทส T23AV174-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.2 (30°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	143	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	46.4	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	362	25
SETTLABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	2.9	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	67.0	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	5	3
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

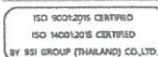
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 6, 2023



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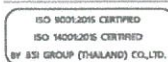
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## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : OCTOBER 25, 2023  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR ACHITA SAENGJIAN  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : OCTOBER 25, 2023  
**ANALYTICAL DATE** : OCTOBER 25-NOVEMBER 1, 2023  
**REPORT NO.** : 2023-U094023  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AV174-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลลัพธ์ที่ได้ T23AV174-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H <sup>+</sup> B)	7.2 (30°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 30	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.6	≤ 40	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	134	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 1.0	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3



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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอพักน้ำใส T23AV174-0002		
RESIDUAL CHLORINE <sup>a</sup>	mg/l. Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> 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<sup>+</sup> : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

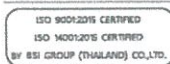
ND : NON-DETECTABLE

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 6, 2023



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



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## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : OCTOBER 25, 2023  
**SAMPLING TIME** : 13:35 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR ACHITA SAENGJIAN  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : OCTOBER 25, 2023  
**ANALYTICAL DATE** : OCTOBER 25-NOVEMBER 1, 2023  
**REPORT NO.** : 2023-U094025  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AV174-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าวิเคราะห์ T23AV174-0003	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H <sup>+</sup> B)	7.3 (29°C)	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	137	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

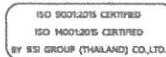
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 6, 2023



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### ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : NOVEMBER 17, 2023  
**SAMPLING TIME** : 13:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR CHOKCHAI PHUMSAWAI  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : NOVEMBER 17, 2023  
**ANALYTICAL DATE** : NOVEMBER 17-23, 2023  
**REPORT NO.** : 2023-U102153  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AX036-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มาตรฐาน T23AX036-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.3 (29°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	144	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	81.7	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	376	25
SETTLABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	10	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	2.6	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	69.1	1.5
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	6	3
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

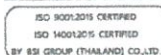
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 28, 2023



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



TESTING  
No. 0063

### ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : NOVEMBER 17, 2023  
**SAMPLING TIME** : 13:50 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR CHOKCHAI PHUMSAWAI  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : NOVEMBER 17, 2023  
**ANALYTICAL DATE** : NOVEMBER 17-22, 2023  
**REPORT NO.** : 2023-U102155  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AX036-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			ค่าประปา T23AX036-0003	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.5 (27°C)	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	162	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

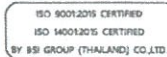
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 28, 2023



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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** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : NOVEMBER 17, 2023  
**SAMPLING TIME** : 13:45 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. CHOKCHAI PHUMSAWAI  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : NOVEMBER 17, 2023  
**ANALYTICAL DATE** : NOVEMBER 17-23, 2023  
**REPORT NO.** : 2023-U102154  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AX036-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มตทกป้าไร T23AX036-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.6 (29°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.7	≤ 30	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE TP WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	181	500*	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2</sup> F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE TP WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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HSC-TISI-TIS 17025  
TESTING 0207



TESTING  
No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอพักน้ำใส T23AX036-0002		
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BLACK		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> 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.

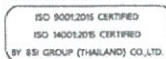
ND : NON-DETECTABLE

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

NOVEMBER 28, 2023



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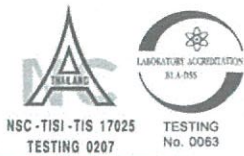
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2023-U102154

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เดือนธันวาคม 2566

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



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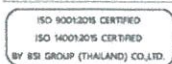
**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : DECEMBER 20, 2023  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD** <sup>c</sup> : GRAB  
**SAMPLING BY** <sup>c</sup> : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : DECEMBER 20, 2023  
**ANALYTICAL DATE** : DECEMBER 20-28, 2023  
**REPORT NO.** : 2024-U000063  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AZ516-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บอกระยะ T23AZ516-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.4 (31°C)	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	135	2.0
SUSPENDED SOLIDS <sup>a</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	49.3	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	420	25
SETTLABLE SOLIDS <sup>c</sup>	mL/L	IMHOFF CONE (SM: PART 2540 F)	0.3	0.1
SULPHIDE <sup>c</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500-S <sup>2-</sup> F)	3.3	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500 Norg C	66.9	15
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	9	3
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	0.1
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
**SM** : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
**ND** : NON-DETECTABLE.

*Piyapat S.*  
(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JANUARY 4, 2024



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TESTING  
No.0063

## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanzd.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : DECEMBER 20, 2023  
**SAMPLING TIME** : 09:45 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : DECEMBER 20, 2023  
**ANALYTICAL DATE** : DECEMBER 20-28, 2023  
**REPORT NO.** : 2024-U000064  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AZ516-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอพิทปวโส T23AZ516-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H <sup>+</sup> B AND 1060 B	7.1 (31°C)	5-9	-
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	≤ 30	2.0
SUSPENDED SOLIDS <sup>c</sup>	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	≤ 40	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAO.007 (TOTAL DISSOLVED SOLIDS DRIED AT 103-105 °C); SM: PART 2540 C	259	500*	25
SETTLEABLE SOLIDS <sup>c</sup>	ml/L	IMHOFF CONE (SM: PART 2540 F)	< 0.1	≤ 0.5	0.1
SULPHIDE <sup>b</sup>	mg/L	IODOMETRIC METHOD (SM: PART 4500 -S <sup>2-</sup> F)	< 0.50	≤ 10	0.50
TOTAL KJELDAHL NITROGEN <sup>b</sup>	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	≤ 35	15
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 20	3

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No. 0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			มอพิภพน้ำใส T23AZ516-0002		
RESIDUAL CHLORINE <sup>c</sup>	mg/L Cl <sub>2</sub>	MODIFIED DPD COLOURIMETRIC METHOD (AT SITE)	ND	-	0.1
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> 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<sup>mg/L</sup> : PERMITTED EXCESS VALUE TO TOTAL DISSOLVED SOLIDS OF ACTUAL TAP WATER USED.

ND : NON-DETECTABLE.

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JANUARY 4, 2024

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TESTING  
No. 0063

## ANALYSIS REPORT

**CUSTOMER NAME** : PANO VILLE CONDOMINIUM  
**ADDRESS** : 21 VIBHAVADI RANGSIT ROAD 16/43 DIN DAENG DIN DAENG BANGKOK 10400  
**CONTACT INFORMATION** : TEL : 0 2481 5234, 065 291 6858 e-mail : nisanad.v@thelivingos.com  
**SAMPLING SOURCE** : PANO VILLE CONDOMINIUM  
**SAMPLE TYPE** : WATER SUPPLY  
**SAMPLING DATE** : DECEMBER 20, 2023  
**SAMPLING TIME** : 09:55 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : DECEMBER 20, 2023  
**ANALYTICAL DATE** : DECEMBER 20-27, 2023  
**REPORT NO.** : 2024-U000065  
**WORK NO.** : 2023-000919  
**ANALYSIS NO.** : T23AZ516-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			นำประปา T23AZ516-0003	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H <sup>+</sup> B AND 1060 B	7.4 (30°C)	-
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	247	25
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT			-	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

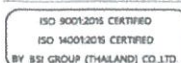
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

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(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JANUARY 4, 2024



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## ภาพประกอบ

