

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร A : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657905 E 1523911 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/2  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 09.18 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.5 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 2,766  |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 355    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 500    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.5    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 5.00   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | > 100  |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 340    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร A : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657907 E 1523900 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/3  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 09.23 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 23.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 68.7   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 353    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 64.4   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.5    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.20   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.5    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 58     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst




Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร B : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657920 E 1523878 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/5  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 09.32 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 23.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 55.4   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 302    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 62.0   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.6    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.50   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.1    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 56     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร B : หลังออกจากกระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657923 E 1523874 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/6  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 09.29 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.1 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 73.6   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 445    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 58.4   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.2    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.40   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 2.5    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 53     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst

  
TNP ENVIRONMENT CO.,LTD.  
บริษัท ทีเอ็นพี เอ็นvironment จำกัด

  
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 1) : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657877 E 1523873 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/8  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 09.54 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.9    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 118    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 400    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 78.9   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.7    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.80   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 4.5    |
| Total Kjeldahl Nitrogen *. <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 81     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst



Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
 Project Name : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
 Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
 Sampling Point : อาคาร C (อาคาร 1) : หลังออกจากกระบบบำบัดน้ำเสีย  
 GPS. Coordinate : 47 P 657865 E 1523864 N  
 Sampling By : TNP ENVIRONMENT CO., LTD.  
 Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
 Sample No. : W69017/9  
 Sample Type : Wastewater  
 Sampling Date : 09 January 2026  
 Sampling Time : 09.49 a.m.  
 Received Date : 10 January 2026  
 Analytical Date : 10 – 20 January 2026  
 Report Date : 21 January 2026

| Parameter                               | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|-----------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.4 °C                           | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    | 5.5-9.0  |
| Total Suspended Solids                  | mg/L | Dried at 103-105 °C (2540 D)                                    | 71.4   | ≤ 30     |
| Total Dissolved Solids                  | mg/L | Dried at 180 °C (2540 C)                                        | 243    | ≤ 1,000  |
| Biochemical Oxygen Demand *             | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 13.9   | ≤ 20     |
| Oil and Grease *                        | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                               | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                     | mL/L | Imhoff Cone (2540 F)                                            | 2.0    | -        |
| Total Kjeldahl Nitrogen <sup>2/3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 62     | ≤ 35     |
| Sample Appearance                       |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst



TNP ENVIRONMENT CO.,LTD.  
 บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด



Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
 Project Name : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
 Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
 Sampling Point : อาคาร C (อาคาร 2) : ก่อนเข้าระบบบำบัดน้ำเสีย  
 GPS. Coordinate : 47 P 657844 E 1523888 N  
 Sampling By : TNP ENVIRONMENT CO., LTD.  
 Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
 Sample No. : W69017/10  
 Sample Type : Wastewater  
 Sampling Date : 09 January 2026  
 Sampling Time : 09.43 a.m.  
 Received Date : 10 January 2026  
 Analytical Date : 10 – 20 January 2026  
 Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 23.5 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 798    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 362    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 223    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 6.8    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 3.87   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 27     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 109    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
 \* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst




Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 2) : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657851 E 1523895 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/11  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 09.39 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 23.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 50.7   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 400    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 38.8   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.1    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 34     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst




Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

## Data Provided by Customer

|                 |   |                                                                                  |
|-----------------|---|----------------------------------------------------------------------------------|
| Customer Name   | : | โรงพยาบาลศิริราช (หอพักพยาบาล)                                                   |
| Project Name    | : | โครงการ อาคารหอพักพยาบาล<br>โรงพยาบาลศิริราช ปิยมหาราชการุณย์                    |
| Address Project | : | เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ<br>เขตตลิ่งชัน กรุงเทพมหานคร 10170 |
| Sampling Point  | : | อาคาร D : ก่อนเข้าระบบบำบัดน้ำเสีย                                               |
| GPS. Coordinate | : | 47 P 657863 E 1523912 N                                                          |
| Sampling By     | : | TNP ENVIRONMENT CO., LTD.                                                        |
| Sampling Method | : | Grab Sampling                                                                    |

### Data Provided by Laboratory

|                 |   |                      |
|-----------------|---|----------------------|
| Report No.      | : | W69017               |
| Sample No.      | : | W69017/13            |
| Sample Type     | : | Wastewater           |
| Sampling Date   | : | 09 January 2026      |
| Sampling Time   | : | 10.05 a.m.           |
| Received Date   | : | 10 January 2026      |
| Analytical Date | : | 10 – 20 January 2026 |
| Report Date     | : | 21 January 2026      |

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 1,764  |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 410    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 274    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 5.3    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 4.93   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 56     |
| Total Kjeldahl Nitrogen <sup>*, 3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 131    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

|        |                                                                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------|
| Remark | 1/ Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24 <sup>th</sup> edition 2023. |
|--------|-------------------------------------------------------------------------------------------------------------------|

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

**TNP**  
TNP ENVIRONMENT CO., LTD.  
บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร D : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657850 E 1523911 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/14  
Sample Type : Wastewater  
Sampling Date : 09 January 2026  
Sampling Time : 10.00 a.m.  
Received Date : 10 January 2026  
Analytical Date : 10 – 20 January 2026  
Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 6.9    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 39.5   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 302    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 31.7   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.1    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | < 0.28 | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst



TNP ENVIRONMENT CO.,LTD.



Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
 Project Name : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
 Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
 Sampling Point : บ่อพักสุดท้ายก่อนปล่อยออก  
 GPS. Coordinate : 47 P 657877 E 1523919 N  
 Sampling By : TNP ENVIRONMENT CO., LTD.  
 Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
 Sample No. : W69017/15  
 Sample Type : Wastewater  
 Sampling Date : 09 January 2026  
 Sampling Time : 10.11 a.m.  
 Received Date : 10 January 2026  
 Analytical Date : 10 – 20 January 2026  
 Report Date : 21 January 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                              | Result | Standard |
|------------------------------------------|------|------------------------------------------------------------------------------|--------|----------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                                 | 7.7    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                                 | 15.3   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                                     | 226    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O <sub>2</sub> G, 5210 B) | 88.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)                          | 2.2    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                                   | 2.00   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                                         | 0.1    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                             | 37     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                                |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst




Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร A : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657908 E 1523905 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/2  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 09.44 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                     | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|-------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.6 °C                 | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.7    |
| Total Suspended Solids        | mg/L | Dried at 103-105 °C (2540 D)                                    | 68.3   |
| Total Dissolved Solids        | mg/L | Dried at 180 °C (2540 C)                                        | 316    |
| Biochemical Oxygen Demand *   | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 66.9   |
| Oil and Grease *              | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.5    |
| Sulfide *                     | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.30   |
| Settleable Solids *           | mL/L | Imhoff Cone (2540 F)                                            | 0.8    |
| Total Kjeldahl Nitrogen *, 3/ | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 76     |
| Sample Appearance             |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
 Miss Jarawee Aedee  
Analyst

  
 TNP ENVIRONMENT CO.,LTD.  
 บริษัท ทีเอ็นพี เอ็นvironment จำกัด

  
 Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร A : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657907 E 1523908 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/3  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 09.48 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.3 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 57.9   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 335    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 57.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.2    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.20   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 70     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
 Miss Jarawee Aedee  
 Analyst

  
 TNP ENVIRONMENT CO.,LTD.  
 บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด

  
 Miss Anusara Kaewkajorn  
 Laboratory Manager





## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร B : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657923 E 1523871 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/6  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 09.53 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 46.5   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 346    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 55.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.4    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.40   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 2.0    | -        |
| Total Kjeldahl Nitrogen <sup>*, 3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 74     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst




Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 1) : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657860 E 1523877 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/8  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 10.17 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.7    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 94.8   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 349    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 66.0   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.8    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.34   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 30     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 129    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst

  
TNP ENVIRONMENT CO.,LTD.  
บริษัท ทีเอ็นพี เอ็นvironment จำกัด

  
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 1) : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657863 E 1523876 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/9  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 10.13 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.6 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 52.2   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 362    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 50.0   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.10   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 60     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst



TNP ENVIRONMENT CO., LTD.  
100/111 ถนนพหลโยธิน แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร 10130

  
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 2) : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657882 E 1523876 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/10  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 10.07 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.5 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 92.2   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 321    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 115    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.4    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.81   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 14     |
| Total Kjeldahl Nitrogen <sup>*, 3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 83     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee  
Analyst



TNP ENVIRONMENT CO.,LTD.  
บริษัท ทีเอ็นพี เอ็นไวรอนเมนต์ จำกัด



Miss Anusara Kaewkajorn  
Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 2) : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657863 E 1523866 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/11  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 10.03 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                              | Result | Standard |
|------------------------------------------|------|------------------------------------------------------------------------------|--------|----------|
| pH at 24.8 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                                 | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                                 | 30.9   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                                     | 143    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O <sub>2</sub> G, 5210 B) | 35.6   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)                          | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sub>2</sub> <sup>-</sup> F)                       | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                                         | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                             | 39     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                                |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee  
Analyst



**TNP ENVIRONMENT CO.,LTD.**  
บริษัท ทีเอ็นพี เอ็นvironment จำกัด



Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร D : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657868 E 1523919 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/13  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 10.29 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 98.5   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 313    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 187    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.2    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 2.14   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 46     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 147    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

- Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee  
Analyst



**TNP ENVIRONMENT CO.,LTD.**  
บริษัท ทีเอ็นพี เอ็นvironment จำกัด



Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร D : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47 P 657861 E 1523914 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/14  
Sample Type : Wastewater  
Sampling Date : 04 February 2026  
Sampling Time : 10.24 a.m.  
Received Date : 05 February 2026  
Analytical Date : 05 – 18 February 2026  
Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.6 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 6.8    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 37.1   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 304    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 26.6   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 2.0    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | < 0.28 | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst




Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
 Project Name : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
 Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
 Sampling Point : บ่อพักสุดท้ายก่อนปล่อยออก  
 GPS. Coordinate : 47 P 657861 E 1523902 N  
 Sampling By : TNP ENVIRONMENT CO., LTD.  
 Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
 Sample No. : W69017/15  
 Sample Type : Wastewater  
 Sampling Date : 04 February 2026  
 Sampling Time : 10.37 a.m.  
 Received Date : 05 February 2026  
 Analytical Date : 05 – 18 February 2026  
 Report Date : 18 February 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.5 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 24.9   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 285    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 38.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.4    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 32     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร A : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657893 E 1523900 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/2  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 09.52 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.1 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.9    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 410    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 409    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 111    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.6    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.71   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 9.0    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 65     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร A : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657905 E 1523890 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/3  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 09.48 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.3 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 53.5   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 410    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 77.7   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.2    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.41   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.1    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 55     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร B : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657924 E 1523867 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/5  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.00 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 51.9   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 315    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 63.5   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.0    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.20   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.5    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 26     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร B : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657916 E 1523866 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/6  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 09.57 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 75.6   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 312    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 44.4   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.3    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.10   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.5    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 33     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 1) : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657864 E 1523904 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/8  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.18 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.3 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 816    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 402    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 127    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 5.3    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 2.61   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 22     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 84     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 1) : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657854 E 1523883 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/9  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.14 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 33.0   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 392    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 38.7   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.80   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 38     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 2) : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657881 E 1523858 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/10  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.08 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 393    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 373    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 128    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 2.51   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 20     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 62     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 2) : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47 P 657878 E 1523866 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/11  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.05 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.4 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.7    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 26.4   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 382    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 24.1   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 34     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร D : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657867 E 1523905 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/13  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.31 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.6 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 2,427  |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 361    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 230    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.8    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 18.07  |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 100    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 181    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร D : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47 P 657867 E 1523896 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/14  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.26 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 6.7    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 30.6   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 369    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 13.1   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | < 0.28 | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : บ่อพักสุดท้ายก่อนปล่อยออก  
**GPS. Coordinate** : 47P 657876 E 1523920 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/15  
**Sample Type** : Wastewater  
**Sampling Date** : 04 March 2026  
**Sampling Time** : 10.37 a.m.  
**Received Date** : 05 March 2026  
**Analytical Date** : 05 – 17 March 2026  
**Report Date** : 18 March 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.3 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 13.1   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 362    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 34.4   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.80   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.1    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 17     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร A : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657896 E 1523908 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/2  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 09.40 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 155    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 375    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 104    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.2    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.52   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 5.5    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 68     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

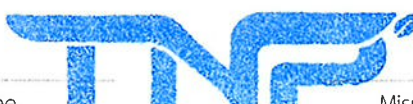
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst


**TNP ENVIRONMENT CO.,LTD.**

บริษัท ทีเอ็นพี เอ็นไวรอนเมนต์ จำกัด



Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
 Project Name : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
 Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
 Sampling Point : อาคาร A : หลังออกจากกระบบบำบัดน้ำเสีย  
 GPS. Coordinate : 47P 657910 E 1523907 N  
 Sampling By : TNP ENVIRONMENT CO., LTD.  
 Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
 Sample No. : W69017/3  
 Sample Type : Wastewater  
 Sampling Date : 08 April 2026  
 Sampling Time : 09.35 a.m.  
 Received Date : 09 April 2026  
 Analytical Date : 09 - 23 April 2026  
 Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.3    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 58.0   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 371    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 70.8   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.1    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.42   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *. <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 53     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

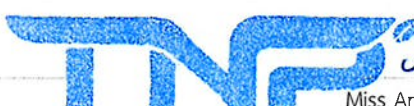
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst


**TNP ENVIRONMENT CO.,LTD.**  
 บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด



Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร B : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657913 E 1523863 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/5  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 09.51 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.7    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 40.4   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 365    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 61.6   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.1    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.83   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.2    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 51     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst

   
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร B : หลังออกจากกระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657920 E 1523862 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/6  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 09.46 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.1 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 85.3   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 362    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 24.7   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.0    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.3    | -        |
| Total Kjeldahl Nitrogen <sup>*, 3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 48     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

Standard : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst

  
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 1) : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657866 E 1523890 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/8  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 10.11 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.1 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 379    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 360    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 168    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.2    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 2.03   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 20     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 83     |
| Sample Appearance                        |      | Black/Turbid/Sediment/Smelly                                    |        |

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
 Miss Jarawee Aedee  
 Analyst

  
**TNP ENVIRONMENT CO.,LTD.**  
 บริษัท ทีเอ็นพี เอ็นไวรอนเมนต์ จำกัด

  
 Miss Anusara Kaewkajorn  
 Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 1) : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657861 E 1523884 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/9  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 10.08 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.1    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 40.0   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 345    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 18.6   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 25     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

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**Miss Jarawee Aedee**  
 Analyst

  
**TNP ENVIRONMENT CO.,LTD.**  
 บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด

  
**Miss Anusara Kaewkajorn**  
 Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 2) : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657874 E 1523869 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/10  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 10.02 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.8 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.3    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 163    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 343    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 104    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.1    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.93   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 4.5    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 40     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst



**TNP ENVIRONMENT CO.,LTD.**  
บริษัท ทีเอ็นพี เอ็นไวรอนเมนต์ จำกัด

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร C (อาคาร 2) : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657880 E 1523874 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/11  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 09.59 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.3    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 42.3   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 340    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 18.4   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 37     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst

   
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร D : ก่อนเข้าระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657868 E 1523911 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/13  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 10.23 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                             | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|---------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.2 °C                         | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.3    |
| Total Suspended Solids                | mg/L | Dried at 103-105 °C (2540 D)                                    | 185    |
| Total Dissolved Solids                | mg/L | Dried at 180 °C (2540 C)                                        | 338    |
| Biochemical Oxygen Demand *           | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 82.8   |
| Oil and Grease *                      | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.0    |
| Sulfide *                             | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 4.06   |
| Settleable Solids *                   | mL/L | Imhoff Cone (2540 F)                                            | 4.5    |
| Total Kjeldahl Nitrogen <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 52     |
| Sample Appearance                     |      | Yellow/Turbid/Sediment/Smelly                                   |        |

Remark <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.



Miss Jarawee Aedee

Analyst


**TNP ENVIRONMENT CO.,LTD.**

บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด



Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : อาคาร D : หลังออกจากระบบบำบัดน้ำเสีย  
GPS. Coordinate : 47P 657868 E 1523909 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/14  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 10.20 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                               | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|-----------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                           | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 6.6    | 5.5-9.0  |
| Total Suspended Solids                  | mg/L | Dried at 103-105 °C (2540 D)                                    | 22.6   | ≤ 30     |
| Total Dissolved Solids                  | mg/L | Dried at 180 °C (2540 C)                                        | 330    | ≤ 1,000  |
| Biochemical Oxygen Demand *             | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 19.3   | ≤ 20     |
| Oil and Grease *                        | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                               | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                     | mL/L | Imhoff Cone (2540 F)                                            | 0.2    | -        |
| Total Kjeldahl Nitrogen <sup>*,3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | < 0.28 | ≤ 35     |
| Sample Appearance                       |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
 Miss Jarawee Aedee  
 Analyst

  
**TNP ENVIRONMENT CO.,LTD.**  
 บริษัท ทีเอ็นพี เอ็นvironment จำกัด

  
 Miss Anusara Kaewkajorn  
 Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

Customer Name : โรงพยาบาลศิริราช (หอพักพยาบาล)  
Project Name : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
Address Project : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
Sampling Point : บ่อพักสุดท้ายก่อนปล่อยออก  
GPS. Coordinate : 47P 657875 E 1523921 N  
Sampling By : TNP ENVIRONMENT CO., LTD.  
Sampling Method : Grab Sampling

### Data Provided by Laboratory

Report No. : W69017  
Sample No. : W69017/15  
Sample Type : Wastewater  
Sampling Date : 08 April 2026  
Sampling Time : 10.30 a.m.  
Received Date : 09 April 2026  
Analytical Date : 09 - 23 April 2026  
Report Date : 24 April 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 7.6    | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 332    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 46.6   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.42   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.1    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 18     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

  
Miss Jarawee Aedee  
Analyst

  
TNP ENVIRONMENT CO.,LTD.  
บริษัท ทีเอ็นพี เอ็นไวรอนเม้นท์ จำกัด  
Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร A : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657902 E 1523903 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/2  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 09.55 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.2    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 208    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 385    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 138    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.9    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.31   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 4.5    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 59     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร A : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657905 E 1523903 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/3  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 09.50 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 65.2   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 392    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 74.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.1    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.60   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.5    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 56     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร B : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657915 E 1523865 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/5  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.04 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.1 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 58.9   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 388    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 30.8   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.4    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.90   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.4    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 56     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร B : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657925 E 1523900 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/6  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.01 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 74.5   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 369    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 29.6   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.3    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.70   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 49     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 1) : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657848 E 1523863 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/8  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.22 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.8 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.4    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 60.8   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 390    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 70.4   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.5    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.10   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 2.0    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 57     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 1) : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657851 E 1523898 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/9  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.17 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.8 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.1    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 30.9   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 386    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 19.0   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 45     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 2) : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657872 E 1523860 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/10  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.12 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.3    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 320    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 372    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 136    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.6    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.51   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 10     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 52     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
 \* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 2) : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657876 E 1523877 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/11  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.08 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.0    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 40.5   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 373    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 26.3   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 34     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร D : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657867 E 1523910 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/13  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.34 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.1    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 252    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 390    |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 132    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 5.8    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 5.02   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 13     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 57     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร D : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657861 E 1523911 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/14  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.29 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 6.2    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 18.0   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 365    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 14.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | < 0.28 | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Little Sediment/Odorless                          |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : บ่อพักสุดท้ายก่อนปล่อยออก  
**GPS. Coordinate** : 47P 657871 E 1523915 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/15  
**Sample Type** : Wastewater  
**Sampling Date** : 06 May 2026  
**Sampling Time** : 10.41 a.m.  
**Received Date** : 07 May 2026  
**Analytical Date** : 07 - 19 May 2026  
**Report Date** : 20 May 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.2 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 7.4    | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 370    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5 Day BOD Test, Azide Modification Method<br>(4500-O C, 5210 B) | 29.3   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.0    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.00   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.2    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 21     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Little Sediment/Smelly                            |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร A : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657899 E 1523897 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/2  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 09.43 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 104    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 382    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 50.7   |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 5.4    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.80   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 8.0    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 73     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร A : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657906 E 1523900 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/3  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 09.37 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.7    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 56.0   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 384    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 21.6   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.9    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 0.70   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.2    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 55     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร B : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657918 E 1523869 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/5  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 09.53 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.8 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 8.0    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 52.9   |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 379    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 173    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.4    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.71   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.5    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 62     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร B : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657911 E 1523879 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/6  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 09.49 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.9 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.8    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 81.3   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 359    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 157    | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.0    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.31   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 52     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 1) : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657883 E 1523861 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/8  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.08 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.8 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.6    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 225    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 376    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 204    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 5.1    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 3.01   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 8.0    |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 60     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 1) : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657875 E 1523869 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/9  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.00 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 70.8   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 360    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 103    | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 3.2    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.71   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 38     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager



## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 2) : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657844 E 1523887 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/10  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.12 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 25.0 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 835    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 392    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 334    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 4.8    |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 3.71   |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 26     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 76     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร C (อาคาร 2) : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657860 E 1523878 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/11  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.08 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.5    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 35.2   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 394    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 19.7   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 2.2    | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 45     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร D : ก่อนเข้าระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657870 E 1523907 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/13  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.24 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result |
|------------------------------------------|------|-----------------------------------------------------------------|--------|
| pH at 24.6 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.2    |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 957    |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 385    |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 434    |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | 15.1   |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 11.65  |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 82     |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 210    |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Smelly                                   |        |

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.  
<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.  
<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.  
\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee  
Analyst

Miss Anusara Kaewkajorn  
Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : อาคาร D : หลังออกจากระบบบำบัดน้ำเสีย  
**GPS. Coordinate** : 47P 657865 E 1523907 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/14  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.27 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.5 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 6.9    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 20.8   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 380    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 19.3   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | < 0.60 | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | < 0.1  | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 15     | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Sediment/Odorless                                 |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024)., Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

Analyst

Miss Anusara Kaewkajorn

Laboratory Manager

## ANALYSIS REPORT

### Data Provided by Customer

**Customer Name** : โรงพยาบาลศิริราช (หอพักพยาบาล)  
**Project Name** : โครงการ อาคารหอพักพยาบาล  
 โรงพยาบาลศิริราช ปิยมหาราชการุณย์  
**Address Project** : เลขที่ 81,81/1-3 ถนนคลองชักพระ แขวงคลองชักพระ  
 เขตตลิ่งชัน กรุงเทพมหานคร 10170  
**Sampling Point** : บ่อพักสุดท้ายก่อนปล่อยออก  
**GPS. Coordinate** : 47P 657882 E 1523916 N  
**Sampling By** : TNP ENVIRONMENT CO., LTD.  
**Sampling Method** : Grab Sampling

### Data Provided by Laboratory

**Report No.** : W69017  
**Sample No.** : W69017/15  
**Sample Type** : Wastewater  
**Sampling Date** : 10 June 2026  
**Sampling Time** : 10.32 a.m.  
**Received Date** : 11 June 2026  
**Analytical Date** : 11 - 24 June 2026  
**Report Date** : 25 June 2026

| Parameter                                | Unit | Analytical Method <sup>1/</sup>                                 | Result | Standard |
|------------------------------------------|------|-----------------------------------------------------------------|--------|----------|
| pH at 24.7 °C                            | -    | Electrometric Method (4500-H <sup>+</sup> B)                    | 7.2    | 5.5-9.0  |
| Total Suspended Solids                   | mg/L | Dried at 103-105 °C (2540 D)                                    | 14.3   | ≤ 30     |
| Total Dissolved Solids                   | mg/L | Dried at 180 °C (2540 C)                                        | 355    | ≤ 1,000  |
| Biochemical Oxygen Demand *              | mg/L | 5-Day BOD Test, Membrane Electrode Method<br>(4500-O G, 5210 B) | 67.2   | ≤ 20     |
| Oil and Grease *                         | mg/L | Liquid-Liquid Partition Gravimetric Method (5520 B)             | < 2.0  | ≤ 20     |
| Sulfide *                                | mg/L | Iodometric Method (4500-S <sup>2-</sup> F)                      | 1.00   | ≤ 1.0    |
| Settleable Solids *                      | mL/L | Imhoff Cone (2540 F)                                            | 0.2    | -        |
| Total Kjeldahl Nitrogen *, <sup>3/</sup> | mg/L | APHA:4500-Norg (B) <sup>2/</sup>                                | 9.5    | ≤ 35     |
| Sample Appearance                        |      | Yellow/Turbid/Little Sediment/Smelly                            |        |          |

**Standard** : Notification of the Ministry of Natural Resources and Environment, under Enhancement and Conservation of National Environmental Quality Act, B.E. 2567 (2024), Building type A.

**Remark** <sup>1/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 24<sup>th</sup> edition 2023.

<sup>2/</sup> Standard Methods for the Examination of Water and Wastewater., APHA, AWWA, WEF, 23<sup>rd</sup> edition 2017.

<sup>3/</sup> Analyzed by Environment & Laboratory Co.,Ltd. Registration number Wo-029.

\* This item is out the scope ISO/IEC 17025:2017 Accreditation.

Miss Jarawee Aedee

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Miss Anusara Kaewkajorn

Laboratory Manager