

SES-25005/WW

January 18, 2025.

### ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : January 7, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System		
				A Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid foul smell	yellow turbid	–
1	pH	–	Electrometric (pH Meter)	7.13	6.84	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	96	12	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	632	89	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	80.4	21.3	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	192	416	≤1,000
6	Sulfide	mg/L	Iodometric	2.29	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	127.8	31.5	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	17.1	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	6.8x10 <sup>2</sup>	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.02	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

Mr. Weerapun Weeraruetha

Approved

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.ว.210)

SES-25020/WW

February 14, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : February 3, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System A Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid sediment foul smell	yellow foul smell	–
1	pH	–	Electrometric (pH Meter)	7.19	6.88	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	104	10	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	627	56	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	79.3	12.7	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	521	425	≤1,000
6	Sulfide	mg/L	Iodometric	2.77	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	146.2	27.8	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	14.1	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	3.5x10 <sup>2</sup>	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.01	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

Mr. Weerapun Weeraruethai

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.ว.210)



SES-25044/WW

March 14, 2025.

### ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : March 4, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System A Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid sediment foul smell	yellow foul smell	–
1	pH	–	Electrometric (pH Meter)	7.47	7.52	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	93	5	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	594	33	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	82	27	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	640	452	≤1,000
6	Sulfide	mg/L	Iodometric	2.4	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	197.2	28.4	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	13.8	3.5	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	6.1x10 <sup>2</sup>	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.01	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

Mr. Weerapun Weeraruetha

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.1.210)

SES-25065/WW

April 9, 2025.

### ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : April 1, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System A Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid foul smell	yellow foul smell	–
1	pH	–	Electrometric (pH Meter)	7.15	7.36	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	102	4	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	619	30	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	88	24	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	540	342	≤1,000
6	Sulfide	mg/L	Iodometric	2.6	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	188.3	27.2	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	15.5	3.3	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	49	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.05	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.210)



SES-25094/WW

May 15, 2025.

ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sampling Type : Wastewater  
Sampling Date : May 6, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System A Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid sediment foul smell	yellow sediment foul smell	–
1	pH	–	Electrometric (pH Meter)	7.47	6.73	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	183	16	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	735	114	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	92	18	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	612	251	≤1,000
6	Sulfide	mg/L	Iodometric	3.8	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	127.6	30.2	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	14.2	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	6.8x10 <sup>2</sup>	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.01	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

  
Mr. Weerapun Weeraruethai

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO., LTD. (PRIVATE LABORATORY REGISTERED NO. 2.210)

SES-25114/WW

June 13, 2025.

ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sampling Type : Wastewater  
Sampling Date : June 4, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System		
				A Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid	yellow	–
1	pH	–	Electrometric (pH Meter)	7.35	7.26	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	98	10	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	463	52	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	90	7	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	432	306	≤1,000
6	Sulfide	mg/L	Iodometric	3.4	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	115.9	27.6	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	13.7	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	3.5x10 <sup>2</sup>	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.02	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 40 mg/L)

: \* Influent no established standard



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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.7.210)



SES-25005/WW

January 18, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : January 7, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System B Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid foul smell	yellow	–
1	pH	–	Electrometric (pH Meter)	7.14	7.33	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	105	16	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	716	94	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	83.4	<10	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	407	284	≤1,000
6	Sulfide	mg/L	Iodometric	2.63	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	133.7	32.4	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	16.1	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	23	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.04	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment, Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

Mr. Weerapun Weeraruethai

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.2.210)

SES-25020/WW

February 14, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watnai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : February 3, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System B Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid foul smell	yellow foul smell	–
1	pH	–	Electrometric (pH Meter)	7.18	6.69	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	99	7	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	606	44	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	74.6	<10	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	39	252	≤1,000
6	Sulfide	mg/L	Iodometric	1.94	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	127.1	24.8	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	10.7	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	2.1x10 <sup>2</sup>	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.01	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building  
: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO., LTD. (PRIVATE LABORATORY REGISTERED NO. ๖.210)



SES-25044/WW

March 14, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : March 4, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System B Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid sediment foul smell	yellow foul smell	–
1	pH	–	Electrometric (pH Meter)	7.27	7.41	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	82	10	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	557	63	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	86	21	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	373	276	≤1,000
6	Sulfide	mg/L	Iodometric	1.9	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	115.8	17.2	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	9.6	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	26	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.02	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO., LTD. (PRIVATE LABORATORY REGISTERED NO. 2.210)

SES-25065/WW

April 9, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : April 1, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System B Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid sediment foul smell	yellow foul smell	–
1	pH	–	Electrometric (pH Meter)	7.16	7.04	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	96	8	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	602	47	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	79	14	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	364	431	≤1,000
6	Sulfide	mg/L	Iodometric	2.1	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	126.3	14.8	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	10.6	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.02	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO. 2.210)



SES-25094/WW

May 15, 2025.

### ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sampling Type : Wastewater  
Sampling Date : May 6, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System B Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid sediment foul smell	yellow sediment foul smell	–
1	pH	–	Electrometric (pH Meter)	7.22	7.16	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	102	6	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	627	43	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	83	16	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	396	206	≤1,000
6	Sulfide	mg/L	Iodometric	2.7	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	142.6	16.4	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	9.8	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.02	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), ๓ Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 50 mg/L)

: \* Influent no established standard

Mr. Weerapun Weeraruethai

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.2.210)

SES-25114/WW

June 13, 2025.

ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sampling Type : Wastewater  
Sampling Date : June 4, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result		Standard <sup>(1)</sup>
				Wastewater Treatment System		
				B Building		
				Influent*	Effluent	
	Sample Description	–	–	yellow turbid	yellow	–
1	pH	–	Electrometric (pH Meter)	7.29	7.21	5.5 - 9.0
2	BOD (Biochemical Oxygen Demand)	mg/L	5 Days BOD test, Azide Modification	107	12	≤20
3	COD (Chemical Oxygen Demand)	mg/L	Close Reflux Titrimetric	611	60	≤120 <sup>(2)</sup>
4	TSS (Total Suspended Solids)	mg/L	Dried at 103-105°C	88	18	≤30
5	TDS (Total Dissolved Solids)	mg/L	Dried at 180°C	360	320	≤1,000
6	Sulfide	mg/L	Iodometric	1.9	<1.0	≤1.0
7	TKN (Total Kjeldahl Nitrogen)	mg/L	Semi Micro Kjeldahl	157.2	18.7	≤35
8	Oil & Grease	mg/L	Liquid-Liquid, Partition-Gravimetric	6.7	<3.0	≤20
9	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤5,000
10	Fecal Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	>1.6x10 <sup>5</sup>	<1.8	≤1,000
11	Free Chlorine	mg/L	Iodometric Electrode	–	0.03	≤1.0

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : <sup>(1)</sup> Notification of the Ministry of Natural Resources and Environment; Building (B.E.2567), n Building

: <sup>(2)</sup> Notification of the Ministry of Natural Resources and Environment (B.E.2559)

Remark : TDS in the effluent is increase from TDS in water supply (TDS in water supply = 40 mg/L)

: \* Influent no established standard

  
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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO. 2.210)



SES-25005/WW

January 18, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project Name : Bangkok Chanthaburi Hospital  
Sampling Type : Wastewater  
Sampling Date : January 7, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result	Standard
				Wastewater Treatment System B Building	
				Effluent	
1	E.Coli (Escherichia Coli)	MPN/100ml	Multiple Tube Fermentation Technique	<1.8	<1,000
2	ไขมันอนพชาติ	ฟอง/ลิตร	Centrifugal Sedimentation, Formalin-Ethyl Acetate Sedimentation, Flotation	Not Found	<1

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : Notification of the Ministry of Public Health (B.E.2561)

Mr. Weerapun Weeraruethai

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ANALYST BY : V CARE ENVIRONMENT SERVICES CO.,LTD. (PRIVATE LABORATORY REGISTERED NO.จ.210)

SES-25044/WS

March 14, 2025.

ANALYSIS REPORT

Customer : Wattanavej Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang District, Chanthaburi 22000  
Project : Bangkok Chanthaburi Hospital  
Sample Type : Cooling Tower  
Sampling Date : March 4, 2025.  
Sampling by : SES

Item	Parameter	Unit	Method of Analysis	Result
				Cooling Tower อาคาร A
	Sample Description	-	-	Clear
1	pH	-	Electrometric (pH Meter)	8.74
2	Total Coliform Bacteria	MPN/100 ml.	Multiple Tube Fermentation Technique	<1.8
3	Legionella pneumophila	CFU/1000 ml.	Direct count	Not-Detected
4	Free Chlorine	mg/L	DPD Ferrous Titrimetric	<0.01

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : Notification of the Ministry of Public Health, Department of Health (B.E.2544); Legionella pneumophilla

Remark : Not-Detected = ไม่พบ

  
Mr. Weerapun Weeraruethai  
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ANALYST BY : V CARE ENVIRONMENT SERVICES CO., LTD. (PRIVATE LABORATORY REGISTERED NO. 2.210)



SES-25114/WS

June 13, 2025.

ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sample Type : Cooling Tower  
Sampling Date : June 4, 2025.  
Sampling by : SES

Item	Parameter	Unit	Method of Analysis	Result
				Cooling Tower อาคาร A
	Sample Description	-	-	Clear
1	pH	-	Electrometric (pH Meter)	8.62
2	Total Coliform Bacteria	MPN/100 ml.	Multiple Tube Fermentation Technique	<1.8
3	Legionella pneumophila	CFU/1000 ml.	Direct count	Not-Detected
4	Free Chlorine	mg/L	DPD Ferrous Titrimetric	<0.01

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : Notification of the Ministry of Public Health, Department of Health (B.E.2544); Legionella pneumophila

Remark : Not-Detected = ไม่พบ

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SES-25114/WS

June 13, 2025.

## ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sample Type : Water Supply  
Sampling Date : June 4, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result	Standard
				บ่อน้ำสำรองใต้ดิน อาคาร B	
	Sample Description	-	-	clear	-
1	pH	-	Electrometric	7.06	6.5 - 8.5
2	Turbidity	NTU	Nephelometric	<0.5	≤5
3	Color	Pt-Co Unit	Spectrophotometric-single-wavelength	<1	≤15
4	Total Dissolved Solids (TDS)	mg/L	Dried at 180 °C	40	≤500
5	Hardness	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric	16.4	≤300
6	Chloride	mg/L	Argentometric	7.2	≤250
7	Sulfate	mg/L	Turbidimetric	2.3	≤250
8	Nitrate	mg/L as NO <sub>3</sub> <sup>-</sup>	Cadmium Reduction	<0.01	≤50
9	Nitrite	mg/L as NO <sub>2</sub> <sup>-</sup>	Cadmium Reduction	<0.01	≤3
10	Fluoride	mg/L	Ion-Selective Electrode	0.10	≤0.7

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

Standard : Notification of the Ministry of Public Health, Department of Health (B.E.2563); Tap Water

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บริษัท สยาม เอ็นไวรอนเม้นทอล เซอร์วิส จำกัด  
SIAM ENVIRONMENTAL SERVICE LIMITED

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SES-25114/WS

June 13, 2025.

ANALYSIS REPORT

Customer : Bangkok Chanthaburi Hospital Co.,Ltd.  
Address : 25/14 Thaluang Road, Watmai Sub District, Muang Chanthaburi District, Chanthaburi 22000  
Sample Type : Water Supply  
Sampling Date : June 4, 2025.  
Sampling By : SES

Item	Parameter	Unit	Method of Analysis	Result	Standard
				บ่อน้ำสำรองใต้ดิน อาคาร B	
11	Iron (Fe)	mg/L	Atomic Absorption Spectrometric	<0.05	≤0.3
12	Manganese (Mn)	mg/L	Atomic Absorption Spectrometric	<0.02	≤0.3
13	Copper (Cu)	mg/L	Atomic Absorption Spectrometric	<0.05	≤1
14	Zinc (Zn)	mg/L	Atomic Absorption Spectrometric	<0.04	≤3
15	Lead (Pb)	mg/L	Atomic Absorption Spectrometric	<0.001	≤0.01
16	Total Chromium (Cr)	mg/L	Atomic Absorption Spectrometric	<0.02	≤0.05
17	Cadmium (Cd)	mg/L	Atomic Absorption Spectrometric	<0.001	≤0.003
18	Arsenic (As)	mg/L	Atomic Absorption Spectrometric	<0.0005	≤0.01
19	Mercury (Hg)	mg/L	Atomic Absorption Spectrometric	<0.0005	≤0.001
20	Total Coliform Bacteria	MPN/100ml	Multiple Tube Fermentation Technique	<1.1	<1.1
21	Escherichia Coli (E.Coli)	MPN/100ml	Multiple Tube Fermentation Technique	<1.1	<1.1
22	Staphylococcus aureus	/100ml	Membrane Filter Technique	ไม่พบ	ไม่พบ <sup>(2)</sup>
23	Clostridium Perfringens	/100ml	Compendium*	ไม่พบ	ไม่พบ <sup>(2)</sup>

Method of analysis based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017

\*Compendium of Method for Food Analysis, DMSc and ACFS (Thailand). 1<sup>st</sup> Edition 2003.

Standard : <sup>(1)</sup>Notification of the Ministry of Public Health, Department of Health (B.E.2563); Tap Water  
: <sup>(2)</sup>Notification of the Provincial Waterworks Authority ; Tap Water

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