

# ภาคผนวก ก

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ใบรับรองผลการตรวจวิเคราะห์

## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)
Sampling Location	: ก่อนเข้ระบบบำบัดน้ำเสียส่วนกลาง
Sampling Date	: January 6, 2022
Sampling Time	: 13.09 น.
Sampling Source	: Wastewater
Sampling By	: Mr. Thanabudee Anusasananan

Received Date	: January 8, 2022
Analytical Date	: January 8-21, 2022
Sample Condition	: Turbid Yellow, Little Sediment
Sample Code	: JAN22-031
Report No.	: LAB2201010
Report Date	: January 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.5	-
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	23	-
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	-
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	49	-
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	160,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	>160,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	13	-

กรรช

(Miss Kornchasa Boonprasopsom)

Scientist

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(Miss Pranisa Kunsamut)

General Manager

๖-289-๖-9686

Reviewed and Approved

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: หลังจากระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: January 6, 2022	Sampling By	: Mr. Thanabudee Anusasananan
Sampling Time	: 13.04 น.		

<b>Received Date</b>	: January 8, 2022	<b>Sample Code</b>	: JAN22-032
<b>Analytical Date</b>	: January 8-21, 2022	<b>Report No.</b>	: LAB2201010
<b>Sample Condition</b>	: Clear, Little Sediment	<b>Report Date</b>	: January 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.5	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	3	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	22	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	13,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	17,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	16	-

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General Manager

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## ANALYSIS REPORT

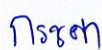
<b>Customer Name</b>	: การเคหะแห่งชาติ		
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
<b>Sampling Location</b>	: บ่อพักสุดท้ายก่อนระบายออกสู่แหล่งน้ำสาธารณะ	<b>Sampling Source</b>	: Wastewater
<b>Sampling Date</b>	: January 6, 2022	<b>Sampling By</b>	: Mr. Thanabudee Anusasananan
<b>Sampling Time</b>	: 13.18 น.		

<b>Received Date</b>	: January 8, 2022	<b>Sample Code</b>	: JAN22-033
<b>Analytical Date</b>	: January 8-21, 2022	<b>Report No.</b>	: LAB2201010
<b>Sample Condition</b>	: Turbid Yellow, Little Sediment	<b>Report Date</b>	: January 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.4	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	36	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	44	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	53	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	54,000	-
7	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	9.3	-
8	Total Phosphors <sup>(3)</sup>	mg/L	Ascorbic Acid Method (4500-P E.)	0.05	-

**Remark** : \* The parameters are outside the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.  
 : \*\* The parameters are in the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.  
 : <sup>(1)</sup> Based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017.  
 : <sup>(2)</sup> ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากที่ดินจัดสรร (ประเภท ข)  
 : <sup>(3)</sup> Analyzed by S.P.S. Consulting Service Co., Ltd. Registration No. 7-011

- End of The Analysis Report -

  
 (Miss Kornchasa Boonprasopsom)  
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 General Manager  
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## ANALYSIS REPORT

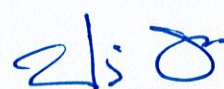
Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: ก่อนเขาระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: February 2, 2022	Sampling By	: Mr. Thitibhop Ketkaew
Sampling Time	: 15.00 น.		

<b>Received Date</b>	: February 5, 2022	<b>Sample Code</b>	: FEB22-043
<b>Analytical Date</b>	: February 5-19, 2022	<b>Report No.</b>	: LAB2202012
<b>Sample Condition</b>	: Turbid Gray, Sediment, Smell	<b>Report Date</b>	: February 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.4	-
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	37	-
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	11	-
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	39	-
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	>160,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	>160,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	11	-

  
 (Miss Kornchasa Boonprasopsom)

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 (Miss Pranisa Kunsamut)

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## ANALYSIS REPORT

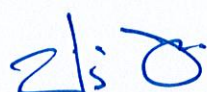
Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: หลังผ่านระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: February 2, 2022	Sampling By	: Mr. Thitibhop Ketkaew
Sampling Time	: 14.55 น.		

<b>Received Date</b>	: February 5, 2022	<b>Sample Code</b>	: FEB22-044
<b>Analytical Date</b>	: February 5-19, 2022	<b>Report No.</b>	: LAB2202012
<b>Sample Condition</b>	: Clear Yellow, Little Sediment	<b>Report Date</b>	: February 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.2	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	2	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	7	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	13,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	24,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	11	-

  
(Miss Kornchasa Boonprasopsom)

Scientist  
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(Miss Pranisa Kunsamut)

General Manager  
๖-289-๑-9686  
Reviewed and Approved

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนวิภาวดี แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: บ่อพักสุดท้ายก่อนระบายออกสู่แหล่งน้ำสาธารณะ	Sampling Source	: Wastewater
Sampling Date	: February 2, 2022	Sampling By	: Mr. Thitibhop Ketkaew
Sampling Time	: 15.10 น.		

Received Date	: February 5, 2022	Sample Code	: FEB22-045
Analytical Date	: February 5-19, 2022	Report No.	: LAB2202012
Sample Condition	: Turbid Green, Sediment, Smell	Report Date	: February 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.4	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	42	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	53	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	45	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	>160,000	-
7	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	8.9	-
8	Total Phosphors <sup>(3)</sup>	mg/L	Ascorbic Acid Method (4500-P E.)	0.08	-

Remark : \* The parameters are outside the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: \*\* The parameters are in the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: <sup>(1)</sup> Based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017.

: <sup>(2)</sup> ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากที่ดินจัดสรร (ประเภท ข)

: <sup>(3)</sup> Analyzed by S.P.S. Consulting Service Co., Ltd. Registration No. ๖-011

- End of The Analysis Report -

กรรช

(Miss Kornchasa Boonprasopsom)

Scientist

๖-289-๖-8975

Analyzed

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(Miss Pranisa Kunsamut)

General Manager

๖-289-๖-9686

Reviewed and Approved

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองลำโรง)		
Sampling Location	: ก่อนเข้ระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: March 5, 2022	Sampling By	: Mr. Nontharit Promtakaew
Sampling Time	: 9.41 น.		

Received Date	: March 8, 2022	Sample Code	: MAR22-079
Analytical Date	: March 8-21, 2022	Report No.	: LAB2203019
Sample Condition	: Turbid Gray, Little Sediment, Smell	Report Date	: March 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.2	-
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	23	-
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	40	-
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	28	-
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	22,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	28,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	8.0	-

กอรชฌา  
(Miss Kornchasa Boonprasopsom)

Scientist

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Pranisa Kunsamut  
(Miss Pranisa Kunsamut)

General Manager

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Reviewed and Approved

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองลำโรง)		
Sampling Location	: หลังผ่านระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: March 5, 2022	Sampling By	: Mr. Nontharit Promtakaew
Sampling Time	: 9.32 น.		

Received Date	: March 8, 2022	Sample Code	: MAR22-080
Analytical Date	: March 8-21, 2022	Report No.	: LAB2203019
Sample Condition	: Clear, Little Sediment	Report Date	: March 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.5	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	6	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	4	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	40	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	1,300	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	20	-

กรชน

(Miss Kornchasa Boonprasopsom)

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: บ่อพักสุดท้ายก่อนระบายออกสู่แหล่งน้ำสาธารณะ	Sampling Source	: Wastewater
Sampling Date	: March 5, 2022	Sampling By	: Mr. Nontharit Promtakaew
Sampling Time	: 9.52 น.		

<b>Received Date</b>	: March 8, 2022	<b>Sample Code</b>	: MAR22-081		
<b>Analytical Date</b>	: March 8-21, 2022	<b>Report No.</b>	: LAB2203019		
<b>Sample Condition</b>	: Clear Green, Little Sediment	<b>Report Date</b>	: March 23, 2022		

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.4	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	10	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	11	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	35	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	2,200	-
7	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B)	7.3	-
8	Total Phosphors <sup>(3)</sup>	mg/L	Ascorbic Acid Method (4500-P E.)	0.04	-

**Remark** : \* The parameters are outside the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: \*\* The parameters are in the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: <sup>(1)</sup> Based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017.

: <sup>(2)</sup> ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำจากที่ดินจัดสรร (ประเภท ข)

: <sup>(3)</sup> Analyzed by S.P.S. Consulting Service Co., Ltd. Registration No. 7-011

- End of The Analysis Report -

กรรช  
(Miss Kornchasa Boonprasopsom)

Scientist

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ปรีษา  
(Miss Pranisa Kunsamut)

General Manager

7-289-ก-9686

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: ก่อนเขาระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: April 2, 2022	Sampling By	: Mr. Thitibhop Promtakaew
Sampling Time	: 15.45 น.		

<b>Received Date</b>	: April 4, 2022	<b>Sample Code</b>	: APR22-034
<b>Analytical Date</b>	: April 4-22, 2022	<b>Report No.</b>	: LAB2204012
<b>Sample Condition</b>	: Clear Gray, Little Sediment, Smell	<b>Report Date</b>	: April 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.6	-
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	36	-
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	19	-
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	43	-
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	>160,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	>160,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	8.8	-

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ		
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
Sampling Location	: หลังผ่านระบบบำบัดน้ำเสียส่วนกลาง	Sampling Source	: Wastewater
Sampling Date	: April 2, 2022	Sampling By	: Mr. Thitibhop Promtakaew
Sampling Time	: 15.40 น.		

<b>Received Date</b>	: April 4, 2022	<b>Sample Code</b>	: APR22-035
<b>Analytical Date</b>	: April 4-22, 2022	<b>Report No.</b>	: LAB2204012
<b>Sample Condition</b>	: Clear, Little Sediment	<b>Report Date</b>	: April 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.7	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	3	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	7	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	790	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	3,400	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	19	-

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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ		
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
<b>Sampling Location</b>	: บ่อพักสุดท้ายก่อนระบายออกสู่แหล่งน้ำสาธารณะ	<b>Sampling Source</b>	: Wastewater
<b>Sampling Date</b>	: April 2, 2022	<b>Sampling By</b>	: Mr. Thitibhop Promtakaew
<b>Sampling Time</b>	: 15.55 น.		

<b>Received Date</b>	: April 4, 2022	<b>Sample Code</b>	: APR22-036
<b>Analytical Date</b>	: April 4-22, 2022	<b>Report No.</b>	: LAB2204012
<b>Sample Condition</b>	: Clear Yellow, Little Sediment, Smell	<b>Report Date</b>	: April 23, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.7	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	54	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	72	≤30
4	Oil & Grease**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	35	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	14,000	-
7	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	7.5	-
8	Total Phosphors <sup>(3)</sup>	mg/L	Ascorbic Acid Method (4500-P E.)	0.45	-

**Remark** : \* The parameters are outside the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: \*\* The parameters are in the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: <sup>(1)</sup> Based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017.

: <sup>(2)</sup> ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากที่คั่นจัดสรร (ประเภท ข)

: <sup>(3)</sup> Analyzed by S.P.S. Consulting Service Co., Ltd. Registration No. 7-011

- End of The Analysis Report -

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## ANALYSIS REPORT

Customer Name	: การเคหะแห่งชาติ
Address	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240
Project Name	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)
Sampling Location	: ก่อนเขาระบบบำบัดน้ำเสียส่วนกลาง
Sampling Date	: May 5, 2022
Sampling Time	: 15.35 น.
Sampling Source	: Wastewater
Sampling By	: Mr. Thitibhop Ketkaew

Received Date	: May 7, 2022
Analytical Date	: May 7-23, 2022
Sample Condition	: Turbid Gray, Little Sediment, Smell
Sample Code	: MAY22-038
Report No.	: LAB2205013
Report Date	: May 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.6	-
2	Biochemical Oxygen Demand <sup>†**</sup>	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	32	-
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	-
4	Oil & Grease**	mg/L	WI-LA-206 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	25	-
6	Fecal Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	35,000	-
7	Total Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	160,000	-
8	Nitrate <sup>(4)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	11	-

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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)
<b>Sampling Location</b>	: หลังผ่านระบบบำบัดน้ำเสียส่วนกลาง
<b>Sampling Date</b>	: May 5, 2022
<b>Sampling Time</b>	: 15.30 น.
<b>Sampling Source</b>	: Wastewater
<b>Sampling By</b>	: Mr. Thitibhop Ketkaew

<b>Received Date</b>	: May 7, 2022
<b>Analytical Date</b>	: May 7-23, 2022
<b>Sample Condition</b>	: Clear Yellow, Little Sediment
<b>Sample Code</b>	: MAY22-039
<b>Report No.</b>	: LAB2205013
<b>Report Date</b>	: May 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.9	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	5	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	WI-LA-206 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	20	≤35
6	Fecal Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	330	-
7	Total Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	3,300	-
8	Nitrate <sup>(4)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	30	-

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### ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ	
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240	
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)	
<b>Sampling Location</b>	: บ่อพักสุดท้ายก่อนระบายออกสู่แหล่งน้ำสาธารณะ	<b>Sampling Source</b> : Wastewater
<b>Sampling Date</b>	: May 5, 2022	<b>Sampling By</b> : Mr. Thitibhop Ketkaew
<b>Sampling Time</b>	: 15.45 น.	

<b>Received Date</b>	: May 7, 2022	<b>Sample Code</b>	: MAY22-040
<b>Analytical Date</b>	: May 7-23, 2022	<b>Report No.</b>	: LAB2205013
<b>Sample Condition</b>	: Clear Yellow, Little Sediment, Smell	<b>Report Date</b>	: May 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.6	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	22	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	25	≤30
4	Oil & Grease**	mg/L	WI-LA-206 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	28	≤35
6	Fecal Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	1,700	-
7	Nitrate <sup>(4)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	5.9	-
8	Total Phosphors <sup>(4)</sup>	mg/L	Ascorbic Acid Method (4500-P E.)	0.08	-

(Miss Kornchasa Boonprasopsom)

Scientist

๖-289-๖-8975

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(Miss Pranisa Kunsamut)

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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ		
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี 4 (หนองสำโรง)		
<b>Sampling Location</b>	: จุดระบายน้ำทิ้ง	<b>Sampling Source</b>	: Surface Water
<b>Sampling Date</b>	: May 05, 2022	<b>Sampling By</b>	: Mr. Thitibhop Ketkaew
<b>Sampling Time</b>	: 16.00 น.		

<b>Received Date</b>	: May 10, 2022	<b>Sample Code</b>	: MAY22-041
<b>Analytical Date</b>	: May 10-23, 2022	<b>Report No.</b>	: LAB2205013
<b>Sample Condition</b>	: Clear Yellow, Little Sediment	<b>Report Date</b>	: May 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(3)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.7	5.0-9.0
2	Dissolved Oxygen*	mg/L	Dissolved Oxygen Meter	2.3	≥4.0
3	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	14	≤2
4	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	15	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	24	-
6	Fecal Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	7,900	≤4,000

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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ		
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี 4 (หนองสำโรง)		
<b>Sampling Location</b>	: จุดก่อนระบายทิ้ง 500 เมตร	<b>Sampling Source</b>	: Surface Water
<b>Sampling Date</b>	: May 05, 2022	<b>Sampling By</b>	: Mr. Thitibhop Ketkaew
<b>Sampling Time</b>	: 16.10 น.		

<b>Received Date</b>	: May 10, 2022	<b>Sample Code</b>	: MAY22-042
<b>Analytical Date</b>	: May 10-23, 2022	<b>Report No.</b>	: LAB2205013
<b>Sample Condition</b>	: Turbid Brown, Sediment	<b>Report Date</b>	: May 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(3)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	6.9	5.0-9.0
2	Dissolved Oxygen*	mg/L	Dissolved Oxygen Meter	1.4	≥4.0
3	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	14	≤2
4	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	60	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	<4	-
6	Fecal Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	160,000	≤4,000

  
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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี 4 (หนองสำโรง)
<b>Sampling Location</b>	: จุดหลังระบายทิ้ง 500 เมตร
<b>Sampling Date</b>	: May 05, 2022
<b>Sampling Time</b>	: 16.30 น.
<b>Sampling Source</b>	: Surface Water
<b>Sampling By</b>	: Mr. Thitibhop Ketkaew

<b>Received Date</b>	: May 10, 2022	<b>Sample Code</b>	: MAY22-043
<b>Analytical Date</b>	: May 10-23, 2022	<b>Report No.</b>	: LAB2205013
<b>Sample Condition</b>	: Clear Yellow, Little Sediment	<b>Report Date</b>	: May 26, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(3)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.4	5.0-9.0
2	Dissolved Oxygen*	mg/L	Dissolved Oxygen Meter	2.3	≥4.0
3	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	9	≤2
4	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	11	-
6	Fecal Coliform Bacteria <sup>(4)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	220	≤4,000

**Remark** : \* The parameters are outside the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: \*\* The parameters are in the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.

: <sup>(1)</sup> Based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017.

: <sup>(2)</sup> ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากที่ดินจัดสรร (ประเภท ก)

: <sup>(3)</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 8 (พ.ศ. 2537) ออกตามความในพระราชบัญญัติส่งเสริมและรักษาคุณภาพสิ่งแวดล้อมแห่งชาติ พ.ศ. 2535 เรื่อง กำหนดมาตรฐานคุณภาพน้ำในแหล่งน้ำผิวดิน

: <sup>(4)</sup> Analyzed by S.P.S. Consulting Service Co., Ltd. Registration No. 3-011

- End of The Analysis Report -

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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)
<b>Sampling Location</b>	: ก่อนเข้ระบบบำบัดน้ำเสียส่วนกลาง
<b>Sampling Date</b>	: June 1, 2022
<b>Sampling Time</b>	: 15.45 น.
<b>Sampling Source</b>	: Wastewater
<b>Sampling By</b>	: Mr. Thitibhop Ketkaew

<b>Received Date</b>	: June 6, 2022
<b>Analytical Date</b>	: June 6-16, 2022
<b>Sample Condition</b>	: Clear Yellow, Little Sediment
<b>Sample Code</b>	: JUN22-031
<b>Report No.</b>	: LAB2206010
<b>Report Date</b>	: June 20, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.2	-
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	8	-
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	13	-
4	Oil & Grease**	mg/L	WI-LA-206 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	-
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	<4	-
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	160,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	>160,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	4.9	-

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### ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ		
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองลำโรง)		
<b>Sampling Location</b>	: หลังจากระบบบำบัดน้ำเสียส่วนกลาง	<b>Sampling Source</b>	: Wastewater
<b>Sampling Date</b>	: June 1, 2022	<b>Sampling By</b>	: Mr. Thitibhop Ketkaew
<b>Sampling Time</b>	: 15.40 น.		

<b>Received Date</b>	: June 6, 2022	<b>Sample Code</b>	: JUN22-032
<b>Analytical Date</b>	: June 6-16, 2022	<b>Report No.</b>	: LAB2206010
<b>Sample Condition</b>	: Clear Yellow, Little Sediment	<b>Report Date</b>	: June 20, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.9	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	6	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	WI-LA-206 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	6	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	160,000	-
7	Total Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 B.)	>160,000	-
8	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	3.4	-

  
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## ANALYSIS REPORT

<b>Customer Name</b>	: การเคหะแห่งชาติ		
<b>Address</b>	: 905 ถนนนวมินทร์ แขวงคลองจั่น เขตบางกะปิ กรุงเทพฯ 10240		
<b>Project Name</b>	: โครงการบ้านเอื้ออาทร จังหวัดอุดรธานี (หนองสำโรง)		
<b>Sampling Location</b>	: บ่อพักสุดท้ายก่อนระบายออกสู่แหล่งน้ำสาธารณะ	<b>Sampling Source</b>	: Wastewater
<b>Sampling Date</b>	: June 1, 2022	<b>Sampling By</b>	: Mr. Thitibhop Ketkaew
<b>Sampling Time</b>	: 15.30 น.		

<b>Received Date</b>	: June 6, 2022	<b>Sample Code</b>	: JUN22-033
<b>Analytical Date</b>	: June 6-16, 2022	<b>Report No.</b>	: LAB2206010
<b>Sample Condition</b>	: Clear Yellow, Little Sediment	<b>Report Date</b>	: June 20, 2022

Item	Parameter	Unit	Method of Analysis <sup>(1)</sup>	Result	Standard <sup>(2)</sup>
1	pH at 25 °C**	-	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 4500-H <sup>+</sup> B	7.9	5.5-9.0
2	Biochemical Oxygen Demand**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5210 B	9	≤20
3	Total Suspended Solids**	mg/L	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 2540 D	<10	≤30
4	Oil & Grease**	mg/L	WI-LA-206 based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF 23 <sup>rd</sup> ed. 2017, Part 5520-B	<5	≤20
5	Total Kjeldahl Nitrogen*	mg/L	Semi-Micro Kjeldahl Method (4500-N <sub>ORG</sub> C.)	7	≤35
6	Fecal Coliform Bacteria <sup>(3)</sup>	MPN/100 mL	Multiple-Tube Fermentation Technique (9221 E.)	160,000	-
7	Nitrate <sup>(3)</sup>	mg/L	Ultraviolet Spectrophotometric Screening Method (4500-NO <sub>3</sub> <sup>-</sup> B.)	4.2	-
8	Total Phosphors <sup>(3)</sup>	mg/L	Ascorbic Acid Method (4500-P E.)	0.26	-

**Remark** : \* The parameters are outside the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.  
: \*\* The parameters are in the scope of accreditation to ISO/IEC 17025:2017 by Thailand Industrial Standards Institute.  
: <sup>(1)</sup> Based on Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF 23<sup>rd</sup> Edition 2017.  
: <sup>(2)</sup> ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากที่คั่นจัดสรร (ประเภท ก)  
: <sup>(3)</sup> Analyzed by S.P.S. Consulting Service Co., Ltd. Registration No. 3-011

- End of The Analysis Report -

  
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