ภาคผนวก ข-19

ผลการตรวจวัดคุณภาพน้ำเสียของโรงงานอุตสาหกรรมรายโรง

Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172613-1

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	57.7	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	138	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	59	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	56	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172613-1

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.10	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	2.2	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	31.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	368	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	48.5	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-0051 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172613-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400

P/O :

Project Name : นิคมอุตสาหกรรม ซีพีจีซี

Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177

Date Received : Nov 13, 2024

Date Reported : Nov 23, 2024

Report Number : 3172613-2

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.006	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Managemen [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400

P/O :

Project Name : นิคมอุตสาหกรรม ซีพีจีซี

Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177

Date Received : Nov 13, 2024

Date Reported : Nov 23, 2024

Report Number : 3172613-2

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Managemen

[redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400

P/O :

Project Name : นิคมอุตสาหกรรม ซีพีจีซี

Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177

Date Received : Nov 13, 2024

Date Reported : Nov 23, 2024

Report Number : 3172613-2

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Managemen [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172613-2

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-BHC (Lindane) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-0051 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Managemen [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172613-3

Sample Number	24129177-1
Sampled Date	Nov 13, 2024 2:50 PM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.34	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	19.6	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *		-	-	Odour	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as subm
ALS. No part of this report may be repr
from the laboratory. ALS Laboratory G
this report is not r

Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-1

Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	241	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	436	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	145	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	143	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	6	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-1

Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.41	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	2.4	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	33.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	412	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	97.3	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	70	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-0051 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management [redacted]

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-2

Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.007	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Managemen [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400

P/O :

Project Name : นิคมอุตสาหกรรม ซีพีจีซี

Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177

Date Received : Nov 13, 2024

Date Reported : Nov 23, 2024

Report Number : 3172614-2

Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0007	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.07	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Managemen

[redacted]

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ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400

P/O :

Project Name : นิคมอุตสาหกรรม ซีพีจีซี

Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177

Date Received : Nov 13, 2024

Date Reported : Nov 23, 2024

Report Number : 3172614-2

Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Managemen

[redacted]

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ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-2

Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-BHC (Lindane) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-0051 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/ar

Technical Managemen

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Analysis / Test Report

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Managemen [redacted]

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172614-3

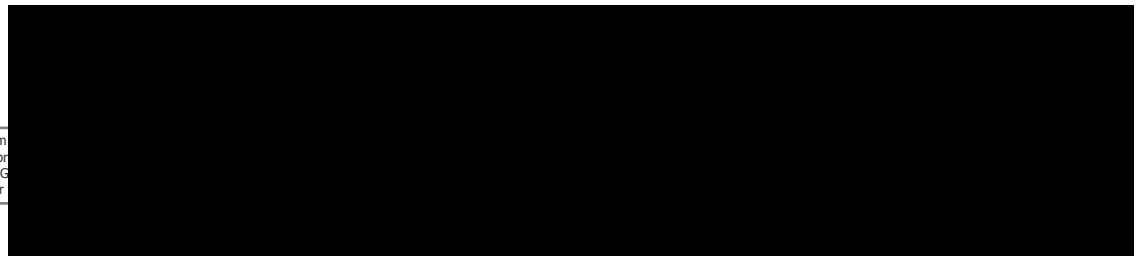
Sample Number	24129177-2
Sampled Date	Nov 13, 2024 3:05 PM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.39	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	3.98	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *		-	-	Odour	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as subm
ALS. No part of this report may be repr
from the laboratory. ALS Laboratory G
this report is not r



Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-1

Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	14.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	39	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	14	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management [redacted]

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ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-1

Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.02	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	31.0	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	134	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	13.2	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	8	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-0051 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management [redacted]

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-2

Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.04	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.0008	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Managemen [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-2

Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.001	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.01	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Managemen

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400

P/O :

Project Name : นิคมอุตสาหกรรม ซีพีจีซี

Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177

Date Received : Nov 13, 2024

Date Reported : Nov 23, 2024

Report Number : 3172615-2

Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Managemen

[redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-2

Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-BHC (Lindane) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-0051 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Managemen [redacted]

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24129177
Date Received : Nov 13, 2024
Date Reported : Nov 23, 2024
Report Number : 3172615-3

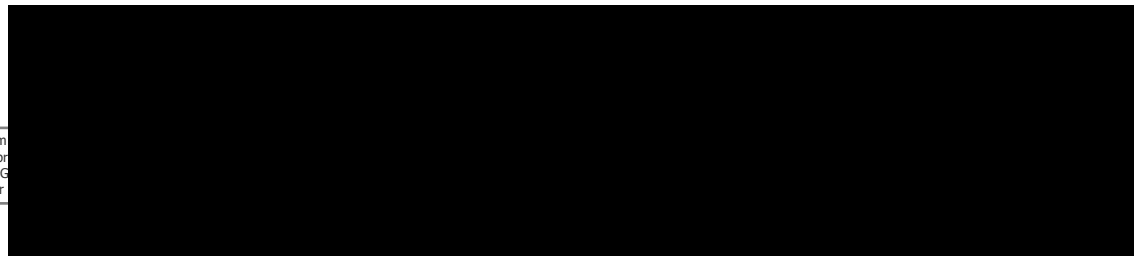
Sample Number	24129177-3
Sampled Date	Nov 13, 2024 3:35 PM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Nov 14, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.19	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	8.51	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Fluoride as F *	mg/L	0.06	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *		-	-	Odour	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Paramet Sattayakun , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as subm
ALS. No part of this report may be repr
from the laboratory. ALS Laboratory G
this report is not r



Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186274-1

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 12, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	23.4	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	74	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	59	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	57	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN *	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186274-1

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 12, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.03	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	6.1	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	30.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	356	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	38.4	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management [redacted]

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186274-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Lot ID: 24138252

Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186274-2

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.05	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186274-2

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186274-2

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186274-2

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-BHC (Lindane) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138252
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186274-3

Sample Number	24138252-1
Sampled Date	Dec 12, 2024 10:32 AM
Sample Description	น้ำเสีย
Location	SIGNCOMPLEX (THAILAND) CO., LTD. (A01)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	18.9	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *		-	-	Odour	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submi
ALS. No part of this report may be repr
from the laboratory. ALS Laboratory G
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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186277-1

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 12, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	24.8	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	61	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	31	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	28	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186277-1

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 12, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	30.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	248	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	21.0	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	17	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186277-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186277-2

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.06	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.003	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.04	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186277-2

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.002	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.03	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186277-2

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186277-2

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-BHC (Lindane) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138280
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186277-3

Sample Number	24138280-1
Sampled Date	Dec 12, 2024 10:15 AM
Sample Description	น้ำเสีย
Location	ESTIVAL (THAILAND) CO., LTD (B06)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.26	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	7.46	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Fluoride as F *	mg/L	0.06	0.2	0.8	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *		-	-	Odour	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti , Thanasoun Namakunna

Remark :
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Results apply to the sample(s) as submi
ALS. No part of this report may be repr
from the laboratory. ALS Laboratory G
this report is not re

Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186276-1

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 12, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	230	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	430	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	174	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	173	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed.,2004	Rayong
Oil & Grease	mg/L	-	3	5	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Rayong
pH at 25 degree C		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Rayong

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186276-1

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 12, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Phenol	mg/L	0.005	0.01	0.23	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	3.3	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Rayong
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	492	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Rayong
Total Kjeldahl Nitrogen as N *	mg/L	-	1.0	95.8	≤100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C), part NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	60	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0042

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186276-1

- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186276-2

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.07	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	0.0006	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.009	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.002	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	<0.0005	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3112	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186276-2

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	0.006	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.001	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.05	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location: ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186276-2

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 23, 2024
Report Number : 3186276-2

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
gamma-BHC (Lindane) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti ทะเบียนเลขที่ ว-323-จ-0019 , Thanasoun Namakunna ทะเบียนเลขที่ ว-204-จ-0101

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management [redacted]

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Analysis / Test Report

TESTING
No.0009

Client : CG Corporation Co., Ltd.
1 Fortune Town 24th Fl., Zone A, Ratchadaphisek Rd., Din Daeng, Din Daeng, Bangkok Thailand 10400
P/O :
Project Name : นิคมอุตสาหกรรม ซีพีจีซี
Project Location : ทางหลวง 3191 ต.มาบข่า อ.นิคมพัฒนา จ.ระยอง 21180

Lot ID: 24138281
Date Received : Dec 12, 2024
Date Reported : Dec 19, 2024
Report Number : 3186276-3

Sample Number	24138281-1
Sampled Date	Dec 12, 2024 10:47 AM
Sample Description	น้ำเสีย
Location	Joyful Living (A10)
Date Analysis Commenced	Dec 13, 2024
Condition of Sample	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.24	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	0.0006	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	3.58	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5540 B, C	Bangkok
Fluoride as F *	mg/L	0.06	0.2	0.2	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-F (D)	Rayong
Odour *		-	-	Odour	No Standard	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.
Sampling By : Wasan Kinunti , Thanasoun Namakunna

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by



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ภาคผนวก ข-20

แบบฟอร์มขออนุญาตเชื่อมท่อน้ำเสียโรงงานกับท่อน้ำเสียส่วนกลางฯ

แบบฟอร์มขออนุญาตเชื่อมท่อน้ำเสียโรงงานกับท่อน้ำเสียส่วนกลาง

นิคมอุตสาหกรรมซีพีซีจี

วันที่ .....เดือน .....พ.ศ. .....

ข้าพเจ้าบริษัท.....

ที่อยู่เลขที่.....ตำบล/แขวง.....

อำเภอ/เขต..... จังหวัด.....รหัสไปรษณีย์.....โทรศัพท์ติดต่อ.....

ผู้มีอำนาจในการกระทำการแทน ผู้ถือครองที่ดินพื้นที่แปลง.....โดยบริษัท.....

โดยมีผู้ติดต่อชื่อ.....โทรศัพท์ติดต่อ.....

มีความประสงค์ขออนุญาตเชื่อมท่อน้ำเสียโรงงานกับท่อน้ำเสียส่วนกลางภายในนิคมฯ บนแปลงที่ดิน เลขที่.....

ตั้งแต่วันที่.....จนถึงวันที่.....เป็นเวลา.....วัน

จึงเรียนมาเพื่อโปรดพิจารณาอนุมัติ

ลงชื่อ.....ผู้ขออนุญาต

(.....)

ลงชื่อ.....ผู้ตรวจสอบ

(.....)

ลงชื่อ.....ผู้ตรวจสอบ

(.....)

ลงชื่อ.....ผู้อนุมัติ

(.....)

ผลการดำเนินการ.....

.....

ลงชื่อ.....ดำเนินการ

(.....)

ลงชื่อ.....ผู้ตรวจสอบ

(.....)

ลงชื่อ.....ดำเนินการ

(.....)

ลงชื่อ.....ผู้ตรวจสอบ

(.....)

หมายเหตุ :

1. ผู้ขออนุญาตจะต้องยื่นคำขอกับฝ่ายบริหารจัดการนิคมอุตสาหกรรม ตรวจสอบเอกสารก่อน 1 สัปดาห์ ก่อนเข้ากระทำการใดๆในพื้นที่นิคมอุตสาหกรรม ซีพีจีซี ฝ่ายบริหารจัดการนิคมอุตสาหกรรมจะอนุมัติให้ปฏิบัติงานเตรียมการภายใน 1 สัปดาห์ **หลังจากที่ได้รับเอกสารครบถ้วน**
2. จะต้องจัดส่งแบบแปลนจุดที่ขอเชื่อมให้กับทางนิคมฯ พร้อมแผนการดำเนินการ
3. ยื่นตรวจสอบเอกสารได้ที่ E-mail : onsite@cg-corp.com

เอกสารแนบ

1. สำเนา ใบ กว.วิศวกร
2. ผังรวมโรงงานและกำหนดจุดที่จะเชื่อม (ระบุตำแหน่งให้ชัดเจน) วิศวกรลงมือชื่อรับรอง
3. แบบขยายในการติดตั้ง (วิศวกรลงมือชื่อรับรอง)

CPGC-FM-TH-04.3 แบบฟอร์มขออนุญาตเชื่อมท่อน้ำเสียโรงงานกับท่อน้ำเสียส่วนกลาง (แก้ไขครั้งที่ 03)

แบบคำขออนุญาตใช้ระบบบำบัดน้ำเสียส่วนกลาง

วันที่.....เดือน.....พ.ศ. .....

ข้าพเจ้าบริษัท.....

ที่อยู่เลขที่.....ตำบล/แขวง.....

อำเภอ/เขต.....จังหวัด.....รหัสไปรษณีย์.....โทรศัพท์ติดต่อ.....

ผู้มีอำนาจในการกระทำการแทนบริษัท.....

โดยมีผู้ติดต่อชื่อ.....โทรศัพท์ติดต่อ.....

มีความประสงค์ขออนุญาตใช้ระบบบำบัดน้ำเสียส่วนกลางในนิคมอุตสาหกรรม ซีพีจีซี พื้นที่แปลง.....

ของบริษัท.....

โดยบริษัทฯจะขอดำเนินการวันที่.....

เอกสารประกอบ

( ) 1. หนังสือรับแจ้งการประกอบกิจการในนิคมอุตสาหกรรม (กนอ.03/2)

( ) 2. รายละเอียด-มาตรการควบคุมระบบบำบัดน้ำเสีย

( ) 3. รายการคำนวณพร้อมรายละเอียดของระบบบำบัดน้ำเสีย

( ) 4. แบบระบบบำบัดน้ำเสีย (Flow Diagram) ขนาด A3

( ) 5. แบบแผนแสดงแผนผังโรงงาน (Site Plan for Factory)

( ) 6. แบบแสดงจุดเชื่อมต่อลงระบบระบายน้ำเสียส่วนกลาง

( ) 7. แบบแสดงแนวเส้นท่อระบบระบายน้ำฝนและน้ำเสียภายในโรงงาน (ขนาด A3)

( ) 8. ประเภท และปริมาณการใช้สารเคมีในขบวนการผลิต

ลงชื่อ.....ผู้ขออนุญาต

(.....)

ลงชื่อ.....ผู้ตรวจสอบ

(.....)

บริษัท ซีจี คอร์เปอเรชั่น จำกัด

ลงชื่อ.....ผู้ตรวจสอบ

(.....)

บริษัท ซีจี คอร์เปอเรชั่น จำกัด

ลงชื่อ.....ผู้อนุมัติ

(.....)

บริษัท ซีจี คอร์เปอเรชั่น จำกัด

ข้อกำหนด

1. การระบายน้ำเสียจากโรงงานเข้าสู่ระบบระบายน้ำเสีย เพื่อส่งไปบำบัดยังระบบบำบัดส่วนกลางของนิคมฯ ต่อไปนั้น ผู้ประกอบการจะต้องควบคุมลักษณะของน้ำเสียที่ระบายออกจากโรงงานให้ได้ตามมาตรฐานที่กำหนดไว้ในประกาศการนิคมอุตสาหกรรมแห่งประเทศไทย ฉบับที่ 76/2560 หรือตาม EIA ของนิคมอุตสาหกรรมกำหนด (ดังเอกสารที่แนบมาด้วย)
2. การสุ่มตรวจสอบคุณลักษณะน้ำเสียเบื้องต้น โดยบริษัทฯ ได้จัดให้มีเจ้าหน้าที่ทำการสุ่มตรวจวัดคุณลักษณะน้ำเสียจากโรงงานต่างๆหมุนเวียน โดยใช้เครื่องมือตรวจวัดที่ได้มาตรฐาน
3. การวิเคราะห์คุณลักษณะน้ำเสียอย่างเป็นทางการโดยบริษัทฯ ได้จัดให้มีห้องปฏิบัติการทางวิทยาศาสตร์ที่ขึ้นทะเบียนกับหน่วยงานราชการ มาทำการเก็บตัวอย่างน้ำเสียที่ระบายออกจากโรงงานทุกโรงงานทุกวันที่ 15 ของเดือน นำมาตรวจวิเคราะห์คุณลักษณะน้ำเสีย โดยส่งผลวิเคราะห์อย่างเป็นทางการแก่การนิคมอุตสาหกรรมแห่งประเทศไทย (กนอ.) และใช้เป็นเกณฑ์ในการเรียกเก็บค่าบำบัดน้ำเสีย
4. การแก้ปัญหาคุณลักษณะน้ำเสียไม่เป็นไปตามข้อกำหนด และการติดตามผลการแก้ไข เมื่อมีการตรวจวิเคราะห์คุณลักษณะน้ำเสียจากโรงงานในการตรวจวิเคราะห์เบื้องต้น ปรากฏว่ามีค่าไม่อยู่ในเกณฑ์มาตรฐานที่กำหนดไว้ บริษัทฯ จะแจ้งผลการวิเคราะห์เบื้องต้นให้กับผู้ประกอบการ เพื่อให้ดำเนินการปรับปรุงแก้ไข และในการตรวจวิเคราะห์อย่างเป็นทางการ หากปรากฏว่ามีค่าไม่อยู่ในเกณฑ์ที่กำหนดไว้ บริษัทฯ จะมีจดหมายซึ่งแนบผลวิเคราะห์แจ้งให้ผู้ประกอบการทราบ และขอความร่วมมือจากผู้ประกอบการมีหนังสือแจ้งตอบถึงแนวทางการแก้ปัญหาคุณลักษณะน้ำเสียที่มีค่าไม่อยู่ในเกณฑ์มาตรฐานดังกล่าว รวมทั้งระยะเวลาดำเนินการ โดยบริษัทฯ จะจัดส่งเจ้าหน้าที่ร่วมประสานงานติดตามการแก้ไขปัญหาดังกล่าวจนกระทั่งคุณลักษณะน้ำเสียของโรงงานได้ตามมาตรฐานที่ราชการกำหนด

ค่าบริการบำบัดน้ำเสีย ใช้หลักเกณฑ์การคำนวณโดยใช้สูตร

อัตราค่าบริการบำบัดน้ำเสีย (บาท/เดือน) = Tc+Cp

โดยที่ Tc = 100 + 12.87Vi + 13.08ViSi/1000

Vi = ปริมาณน้ำเสีย (ลูกบาศก์เมตรต่อเดือน) คำนวณจากร้อยละ 80 ของปริมาณน้ำใช้

Si = ค่าความสกปรกของน้ำเสียโดยวัดในรูปค่า BOD5 หน่วยเป็นมิลลิกรัม/ลิตร

a (ค่าคงที่) = ค่าใช้จ่ายในการรวบรวมและระบายน้ำเสียจากโรงงานเข้าสู่ระบบบำบัดน้ำเสียส่วนกลาง/ลูกบาศก์เมตร โดยคิดจากต้นทุนคูณกับ Profit Margin

b (ค่าคงที่) = ค่าใช้จ่ายในการบำบัดน้ำเสียของระบบบำบัดน้ำเสียส่วนกลาง ต่อ 1 กิโลกรัมบีโอดี (BOD Loading) โดยคิดจากต้นทุนคูณกับ Profit Margin

ค่า Cp (ค่ามลภาวะเกินมาตรฐาน) = เงินที่เรียกเก็บเพิ่มในกรณีที่น้ำเสียของผู้ประกอกิจการหรือผู้ใช้ที่ดินมีคุณภาพเกินกว่าค่ามาตรฐานที่ กนอ. กำหนด โดยค่า Cp จะเรียกเก็บในอัตราจำนวนเท่าของค่าบริการบำบัดน้ำเสีย

Cp = 3Tc เมื่อคุณภาพน้ำเสียพารามิเตอร์ใดๆ ของโรงงานเกินกว่าค่ามาตรฐานที่กำหนดไม่มากกว่า 1.5 เท่า

Cp = 5Tc เมื่อคุณภาพน้ำเสียพารามิเตอร์ใดๆ ของโรงงานเกินกว่าค่ามาตรฐานที่กำหนดมากกว่า 1.5 เท่า

CPGC-FM-TH-06 แบบคำขออนุญาตใช้ระบบบำบัดน้ำเสียส่วนกลาง

รายละเอียด-มาตรการ

การควบคุมระบบบำบัดน้ำเสียเบื่องต้น

1. ข้อมูลเกี่ยวกับโรงงาน

   1.1 ชื่อโรงงาน-บริษัท.....

   1.2 พื้นที่ก่อสร้างโรงงาน.....ไร่.....งาน.....ตารางวา

   1.3 จำนวนพนักงานที่คาดว่าจะมีทั้งหมด.....คน

   1.4 ประกอบกิจการ-หรือการผลิต.....

   .....

2. ข้อมูลเกี่ยวกับการใช้น้ำ

   2.1 ปริมาณน้ำใช้ที่คาดว่าจะใช้จริง เมื่อขบวนการผลิตดำเนินการเต็มที่

      2.1.1 ปริมาณน้ำที่ใช้ในขบวนการผลิต.....ลบ.เมตร/วัน

      2.1.2 ปริมาณน้ำที่ใช้ในการอุปโภค.....ลบ.เมตร/วัน

      2.1.3 ปริมาณน้ำใช้รวม.....ลบ.เมตร/วัน

   2.2 ปริมาณน้ำเสียที่คาดว่าจะเกิดขึ้น เมื่อขบวนการผลิตดำเนินเต็มที่

      2.2.1 ปริมาณน้ำเสียในขบวนการผลิต.....ลบ.เมตร/วัน

      2.2.2 ปริมาณน้ำเสียในการอุปโภค.....ลบ.เมตร/วัน

      2.2.3 ปริมาณน้ำเสียรวม.....ลบ.เมตร/วัน

   2.3 ขบวนการผลิตของโรงงานแบ่งเป็นขั้นตอนการผลิต ดังนี้

   (กรุณาเขียนเป็น Flow Diagram แบบง่ายๆ เพื่อการเข้าใจที่ง่าย พร้อมทั้งเขียนรายละเอียดประกอบทุกขั้นตอนการผลิต-กรุณาเขียนในหน้าถัดไป)

ประเภท และปริมาณการใช้สารเคมีในขบวนการผลิต

ลำดับที่	ชื่อสารเคมี	ปริมาณการใช้(กก./เดือน)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

ข้อมูลเกี่ยวกับระบบน้ำเสียเบื่องต้น

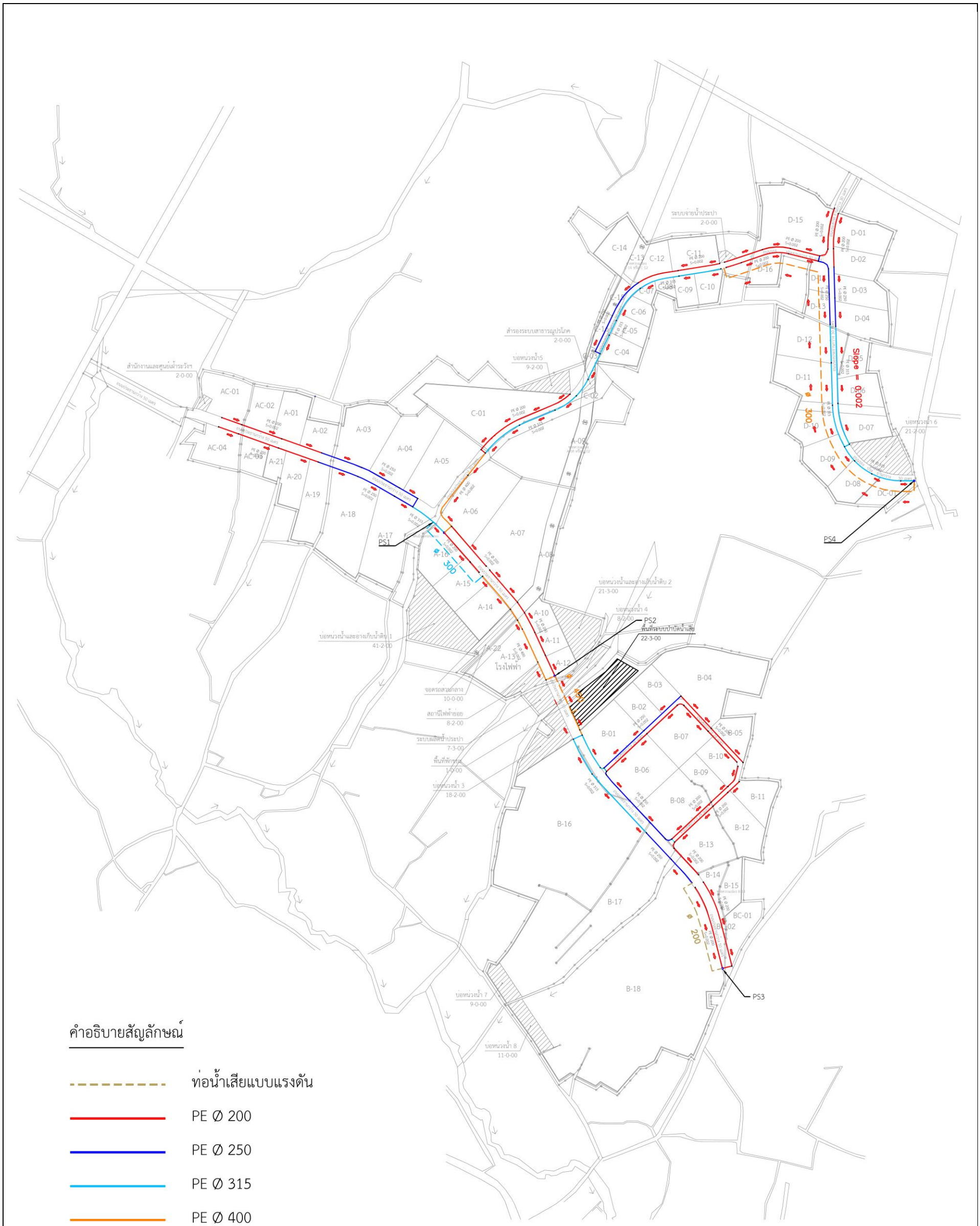
1. บริษัทของท่านมีระบบบำบัดน้ำเสียเบื่องต้นหรือไม่ (โปรดระบุ) .....
2. ประเภทของระบบบำบัดเบื่องต้น (โปรดระบุ) .....
3. กรุณาเขียนบรรยายวิธีการบำบัดน้ำเบื่องต้นของระบบที่ท่านแจ้ง (ถ้าเนื้อหาไม่พอให้เขียนในหน้าถัดไป)

หมายเหตุ หากท่านมีเอกสารประกอบ หรือ รายละเอียดที่เตรียมไว้แล้วเกี่ยวกับระบบบำบัดน้ำเสียเบื้องต้น ท่านสามารถแนบเอกสารดังกล่าวได้โดยไม่ต้องเขียนบรรยายอีก

CPGC-FM-TH-06 แบบคำขออนุญาตใช้ระบบบำบัดน้ำเสียส่วนกลาง

ภาคผนวก ข-21

ผังท่อรวบรวมน้ำเสียของโครงการ



รูปที่ 2.5.2-1 ผังรวบรวมน้ำเสียของโครงการ