

# ภาคผนวก ค-4

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คุณภาพน้ำทิ้ง



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 21139301**

Date Received : Jan 14, 2022

Date Reported : Jan 21, 2022

Report Number : 2158722-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	21139301-1						
<b>Sampled Date</b>	Jan 14, 2022 11:10 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jan 14, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	30	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	30	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.4	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	628	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	26	≤30	APHA (2017), 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Tanasit Wongsachai , 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.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : สัญญาเลขที่4600001511  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 21139301**

Date Received : Jan 14, 2022

Date Reported : Jan 21, 2022

Report Number : 2158722-2

Page 1 of 1

<b>Sample Number</b>	21139301-1
<b>Sampled Date</b>	Jan 14, 2022 11:10 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Jan 15, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.0005	0.005	4.21	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.008	1.41	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	2.19	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.0005	0.005	3.67	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	0.25	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong

**Guideline** : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By** : Tanasit Wongsachai , Thanasoun Namakunna

Remark :

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0042**  
**Lot ID: 21147481**  
Date Received : Feb 15, 2022  
Date Reported : Feb 23, 2022  
Report Number : 2179743-1

Page 1 of 1

<b>Sample Number</b>	21147481-1
<b>Sampled Date</b>	Feb 15, 2022 2:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Feb 15, 2022
<b>Condition of Sample</b>	Contained in one aluminum foil bag, three plastic bottles and one bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	23	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	22	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.8	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.6	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	408	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	25	≤30	APHA (2017), 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Panupong Manit

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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**Technical Management**

*N. Banchongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่4600001511  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 21147481**

Date Received : Feb 15, 2022

Date Reported : Feb 24, 2022

Report Number : 2179743-2

Page 1 of 1

<b>Sample Number</b>	21147481-1
<b>Sampled Date</b>	Feb 15, 2022 2:30 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Feb 17, 2022
<b>Condition of Sample</b>	Contained in one aluminum foil bag, three plastic bottles and one bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	2.54	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	0.99	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	1.10	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	1.46	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	0.15	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Panupong Manit

Remark :

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

Approved by

*Sawitree N.*

Sawitree Noisangiam  
Assistant Manager

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2215728**

Date Received : Mar 15, 2022

Date Reported : Mar 23, 2022

Report Number : 2223256-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2215728-1						
<b>Sampled Date</b>	Mar 15, 2022 1:50 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Mar 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, five plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
Color (at Original pH)	ADMI	-	5	19	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	18	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.0	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	34.4	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	668	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤30	APHA (2017), 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Wanlop Hunchainawa , Thanasoun Namakunna

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.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : สัญญาเลขที่4600001511  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 2215728**

Date Received : Mar 15, 2022  
Date Reported : Mar 23, 2022  
Report Number : 2223256-2

Page 1 of 1

<b>Sample Number</b>	2215728-1						
<b>Sampled Date</b>	Mar 15, 2022 1:50 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Mar 17, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, five plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N	mg/L	0.15	1.0	1.6	≤35	Based on APHA (2017), 4500-Norg (C)	Bangkok

**Guideline** : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By** : Wanlop Hunchainaow , Thanasoun Namakunna

Remark :

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

Technical Management

*Siriluk P.*

Siriluk Puengpang  
Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

*Kanokkorn Anek*

Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : สัญญาเลขที่4600001511  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**TESTING**  
**No.0009**  
**Lot ID: 2215728**  
Date Received : Mar 15, 2022  
Date Reported : Mar 23, 2022  
Report Number : 2223256-3

Page 1 of 1

<b>Sample Number</b>	2215728-1
<b>Sampled Date</b>	Mar 15, 2022 1:50 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Mar 16, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle, five plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium *	meq/L	0.003	0.005	3.73	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium *	meq/L	0.003	0.005	1.54	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Phosphorus	mg/L	0.03	0.05	0.16	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR *	-	-	-	1.84	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium *	meq/L	0.003	0.005	2.98	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
<b>Water Testing</b>							
Chlorite *	mg/L	0.05	0.1	0.14	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	8.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Nitrate as N *	mg/L	0.06	0.2	2.89	No Standard	Based on APHA (2017), 4500-NO3 (E)	Bangkok
Nitrite as N *	mg/L	0.06	0.2	Not Detected	No Standard	Based on APHA (2017), 4500-NO2(B)	Bangkok
Total Nitrogen as N *	mg/L	0.5	1.0	4.5	No Standard	Based on APHA (2017), Calculated	Bangkok

**Guideline** : Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By** : Wanlop Hunchainaw , Thanasoun Namakunna

Remark :

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Assistant Manager





## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2224229**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240637-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2224229-1						
<b>Sampled Date</b>	Apr 21, 2022 1:55 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Apr 21, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	23	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	22	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	34.4	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	556	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤30	APHA (2017), 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled 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.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 2224229**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240637-2

Page 1 of 1

<b>Sample Number</b>	2224229-1						
<b>Sampled Date</b>	Apr 21, 2022 1:55 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Apr 22, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	3.08	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	1.38	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	1.89	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	2.82	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	0.14	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.4	≥2	Based on APHA (2017), 4500-O(C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Thanasoun Namakunna

Remark :

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

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor



## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2242760**

Date Received : May 17, 2022

Date Reported : May 26, 2022

Report Number : 2280084-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 1

<b>Sample Number</b>	2242760-1						
<b>Sampled Date</b>	May 17, 2022 1:35 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	May 17, 2022						
<b>Condition of Sample</b>	Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Color (at Original pH)	ADMI	-	5	25	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	22	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.8	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	33.5	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	760	≤1300	APHA (2017), 2540 C	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 2242760**

Date Received : May 17, 2022

Date Reported : May 26, 2022

Report Number : 2280084-2

Page 1 of 1

**Sample Number** 2242760-1  
**Sampled Date** May 17, 2022 1:35 PM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** May 18, 2022  
**Condition of Sample** Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	3.53	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	1.45	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR		-	-	2.78	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	4.38	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.1	≥2	Based on APHA (2017), 4500-O(C)	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Thanasoun Namakunna

Remark :

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Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :**

**Project Name :** Monitoring EIA

**Project Location:** GNC

**TESTING**

**No.0042**

**Lot ID: 2265463**

Date Received : May 30, 2022

Date Reported : Jun 03, 2022

Report Number : 2326138-1

Page 1 of 1

**Sample Number** 2265463-1  
**Sampled Date** May 30, 2022 1:45 PM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** May 31, 2022  
**Condition of Sample** Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	21	≤30	APHA (2017), 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Satcha Phetsawaeng

Remark :

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**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ ว-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2252638**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301133-1

Page 1 of 1

<b>Sample Number</b>	2252638-1						
<b>Sampled Date</b>	Jun 14, 2022 1:27 PM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ						
<b>Date Analysis Commenced</b>	Jun 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤20	APHA (2017), 5210 B	Rayong
Color (at Original pH)	ADMI	-	5	19	≤300	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	18	≤300	APHA (2017), 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.9	6.5-8.5	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	35.4	40	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	760	≤1300	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤30	APHA (2017), 2540 D	Rayong

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Panupong Manit

Remark :

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Technical Management

*N. Banchongkit*

Narumon Banchongkit  
Supervisor  
ทะเบียนเลขที่ ว-323-จ-9445

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

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**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 2252638**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301133-2

Page 1 of 1

**Sample Number** 2252638-1  
**Sampled Date** Jun 14, 2022 1:27 PM  
**Sample Description** Wastewater  
**Location** จดระบายนํ้าทิ้งของโครงการ  
**Date Analysis Commenced** Jun 16, 2022  
**Condition of Sample** Contained in one amber glass bottle, one BOD bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Calcium	meq/L	0.003	0.005	3.57	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Magnesium	meq/L	0.003	0.005	1.29	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Phosphorus	mg/L	0.03	0.05	0.12	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
SAR	-	-	-	3.94	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium	meq/L	0.003	0.005	6.14	No Standard	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
<b>Water Testing</b>							
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Nitrate as N	mg/L	0.06	0.2	2.26	No Standard	Based on APHA (2017), 4500-NO3 (E)	Bangkok
Nitrite as N	mg/L	0.06	0.2	<0.200	No Standard	Based on APHA (2017), 4500-NO2(B)	Bangkok
Total Nitrogen as N	mg/L	0.5	1.0	3.9	No Standard	Based on APHA (2017), Calculated	Bangkok

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Panupong Manit

Remark :

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
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**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location:** GNC

**Lot ID: 2252638**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301133-3

Page 1 of 1

<b>Sample Number</b>	2252638-1
<b>Sampled Date</b>	Jun 14, 2022 1:27 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	จุดระบายน้ำทิ้งของโครงการ
<b>Date Analysis Commenced</b>	Jun 17, 2022
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N	mg/L	0.15	1.0	1.6	≤35	Based on APHA (2017), 4500-Norg (C)	Bangkok

**Guideline :** Water Characteristics Discharge into Irrigation System, Royal Irrigation Department No.18/2561.

**Sampled By :** Paramet Sattayakun , Panupong Manit

Remark :

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

Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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# ภาคผนวก ค-5

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คุณภาพน้ำผิวดิน



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0042**  
**Lot ID: 21139305**  
Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2158727-1

Page 1 of 5

**Sample Number** 21139305-1  
**Sampled Date** Jan 14, 2022 9:40 AM  
**Sample Description** Surface water  
**Location** จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร  
**Date Analysis Commenced** Jan 14, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.8	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	25.9	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	82	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	56	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Tanasit Wongsachai

Remark :

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

Wilawan Borirak  
Assistant Manager

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## Analysis / Test Report

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0042**  
**Lot ID: 21139305**  
Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2158727-1

Page 2 of 5

**Sample Number** 21139305-2  
**Sampled Date** Jan 14, 2022 9:50 AM  
**Sample Description** Surface water  
**Location** จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทตยาศร)  
**Date Analysis Commenced** Jan 14, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	2.9	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	24.9	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	784	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	14	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Tanasit Wongsachai

Remark :

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

*Wilawan Borirak*

Wilawan Borirak  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0042**  
**Lot ID: 21139305**  
Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2158727-1

Page 3 of 5

**Sample Number** 21139305-3  
**Sampled Date** Jan 14, 2022 10:08 AM  
**Sample Description** Surface water  
**Location** จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน  
**Date Analysis Commenced** Jan 14, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.2	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	26.3	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	52	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	23	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Tanasit Wongsachai

Remark :

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Approved by

Wilawan Borirak  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0042**  
**Lot ID: 21139305**  
Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2158727-1

Page 4 of 5

**Sample Number** 21139305-4  
**Sampled Date** Jan 14, 2022 10:15 AM  
**Sample Description** Surface water  
**Location** จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร  
**Date Analysis Commenced** Jan 14, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.3	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	26.3	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	45	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	24	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Tanasit Wongsachai

Remark :

- LOD : Limit of Detection
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Approved by

Wilawan Borirak  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0042**  
**Lot ID: 21139305**  
Date Received : Jan 14, 2022  
Date Reported : Jan 21, 2022  
Report Number : 2158727-1

Page 5 of 5

**Sample Number** 21139305-5  
**Sampled Date** Jan 14, 2022 10:25 AM  
**Sample Description** Surface water  
**Location** จุดที่ 5 : บริเวณแนวถนนทางแยกบรรจบระหว่างคลองชุมพลกับแนวถนนลงไป 500 เมตร  
**Date Analysis Commenced** Jan 14, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.3	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	26.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	45	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	24	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)  
n': Change from Natural condition not more than 3 degree C

**Sampled By :** Tanasit Wongsachai

Remark :

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Approved by

Wilawan Borirak  
Assistant Manager

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## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0009**  
**Lot ID: 21147487**  
Date Received : Feb 15, 2022  
Date Reported : Feb 24, 2022  
Report Number : 2179747-1

Page 1 of 5

**Sample Number** 21147487-1  
**Sampled Date** Feb 15, 2022 12:36 PM  
**Sample Description** Surface water  
**Location** จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร  
**Date Analysis Commenced** Feb 15, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	4	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.8	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	96	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	57	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 21147487**

Date Received : Feb 15, 2022

Date Reported : Feb 24, 2022

Report Number : 2179747-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 5

<b>Sample Number</b>	21147487-2						
<b>Sampled Date</b>	Feb 15, 2022 11:53 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Feb 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.9	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	608	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	47	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 21147487**

Date Received : Feb 15, 2022

Date Reported : Feb 24, 2022

Report Number : 2179747-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 5

<b>Sample Number</b>	21147487-3						
<b>Sampled Date</b>	Feb 15, 2022 11:39 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Feb 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.4	n <sup>1</sup>	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	52	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	23	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n<sup>1</sup>: Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0009**  
**Lot ID: 21147487**  
Date Received : Feb 15, 2022  
Date Reported : Feb 24, 2022  
Report Number : 2179747-1

Page 4 of 5

**Sample Number** 21147487-4  
**Sampled Date** Feb 15, 2022 11:34 AM  
**Sample Description** Surface water  
**Location** จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร  
**Date Analysis Commenced** Feb 15, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.2	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	47	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	31	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

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418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**TESTING**  
**No.0009**  
**Lot ID: 21147487**  
Date Received : Feb 15, 2022  
Date Reported : Feb 24, 2022  
Report Number : 2179747-1

Page 5 of 5

**Sample Number** 21147487-5  
**Sampled Date** Feb 15, 2022 11:45 AM  
**Sample Description** Surface water  
**Location** จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร  
**Date Analysis Commenced** Feb 15, 2022  
**Condition of Sample** Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	28.2	n <sup>1</sup>	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	43	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	27	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n<sup>1</sup>: Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2215731**

Date Received : Mar 15, 2022

Date Reported : Mar 23, 2022

Report Number : 2223277-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 5

<b>Sample Number</b>	2215731-1						
<b>Sampled Date</b>	Mar 15, 2022 12:20 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Mar 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	8.1	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	34.9	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	572	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	52	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Wanlop Hunchainaow

Remark :

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2215731**

Date Received : Mar 15, 2022

Date Reported : Mar 23, 2022

Report Number : 2223277-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 5

<b>Sample Number</b>	2215731-2						
<b>Sampled Date</b>	Mar 15, 2022 12:10 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Mar 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.1	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	35.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	756	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	80	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Wanlop Hunchainaow

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.

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2215731**

Date Received : Mar 15, 2022

Date Reported : Mar 23, 2022

Report Number : 2223277-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 5

<b>Sample Number</b>	2215731-3						
<b>Sampled Date</b>	Mar 15, 2022 11:40 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Mar 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	35.1	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	48	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	21	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Wanlop Hunchainaow

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.

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2215731**

Date Received : Mar 15, 2022

Date Reported : Mar 23, 2022

Report Number : 2223277-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 4 of 5

<b>Sample Number</b>	2215731-4						
<b>Sampled Date</b>	Mar 15, 2022 11:30 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Mar 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.5	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	34.8	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	48	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	18	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Wanlop Hunchainaow

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2215731**

Date Received : Mar 15, 2022

Date Reported : Mar 23, 2022

Report Number : 2223277-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 5

<b>Sample Number</b>	2215731-5						
<b>Sampled Date</b>	Mar 15, 2022 11:50 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Mar 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, three plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	7.5	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	35.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	46	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	20	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Wanlop Hunchainaow

Remark :

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2224231**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240642-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 5

<b>Sample Number</b>	2224231-1						
<b>Sampled Date</b>	Apr 21, 2022 11:00 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 21, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	3.2	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	6.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.5	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	134	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	55	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

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.

Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2224231**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240642-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 5

<b>Sample Number</b>	2224231-2						
<b>Sampled Date</b>	Apr 21, 2022 10:50 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Apr 21, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.0	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	29.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	524	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	10	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2224231**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240642-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 5

<b>Sample Number</b>	2224231-3						
<b>Sampled Date</b>	Apr 21, 2022 11:20 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Apr 21, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.1	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	50	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	23	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2224231**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240642-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 4 of 5

<b>Sample Number</b>	2224231-4						
<b>Sampled Date</b>	Apr 21, 2022 11:10 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 21, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.1	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.2	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	52	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	23	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

Remark :

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- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2224231**

Date Received : Apr 21, 2022

Date Reported : Apr 29, 2022

Report Number : 2240642-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 5

<b>Sample Number</b>	2224231-5						
<b>Sampled Date</b>	Apr 21, 2022 11:30 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Apr 21, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.5	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.0	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.8	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	48	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	24	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun

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.

Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2242761**

Date Received : May 17, 2022

Date Reported : May 25, 2022

Report Number : 2280086-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 5

<b>Sample Number</b>	2242761-1						
<b>Sampled Date</b>	May 17, 2022 11:45 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	May 17, 2022						
<b>Condition of Sample</b>	Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	3	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.3	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	6.4	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.3	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	134	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	116	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled 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.
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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2242761**

Date Received : May 17, 2022

Date Reported : May 25, 2022

Report Number : 2280086-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 5

<b>Sample Number</b>	2242761-2						
<b>Sampled Date</b>	May 17, 2022 11:35 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	May 17, 2022						
<b>Condition of Sample</b>	Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	4	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.0	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	6.5	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	118	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	104	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
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Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2242761**

Date Received : May 17, 2022

Date Reported : May 25, 2022

Report Number : 2280086-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 3 of 5

<b>Sample Number</b>	2242761-3						
<b>Sampled Date</b>	May 17, 2022 12:05 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	May 17, 2022						
<b>Condition of Sample</b>	Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.3	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.2	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	56	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	25	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled 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.
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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2242761**

Date Received : May 17, 2022

Date Reported : May 25, 2022

Report Number : 2280086-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 4 of 5

<b>Sample Number</b>	2242761-4						
<b>Sampled Date</b>	May 17, 2022 11:55 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	May 17, 2022						
<b>Condition of Sample</b>	Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.7	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	32.3	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	50	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	27	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Thanasoun Namakunna

Remark :

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2242761**

Date Received : May 17, 2022

Date Reported : May 25, 2022

Report Number : 2280086-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

Page 5 of 5

<b>Sample Number</b>	2242761-5						
<b>Sampled Date</b>	May 17, 2022 12:20 PM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 5 : บริเวณแนวถนนทางแยกบริเวณระหว่างคลองชุมพลกับแนวถนนลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	May 17, 2022						
<b>Condition of Sample</b>	Contained in three plastic bottles, one BOD bottle and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.2	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.8	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	57	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	32	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled 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.
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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2252640**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301137-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 1 of 5

<b>Sample Number</b>	2252640-1						
<b>Sampled Date</b>	Jun 15, 2022 10:40 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 1 : บริเวณคลองขุมพลเหนือจุดระบายน้ำทิ้งขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jun 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.8	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	166	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	53	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Nattawut Athomprommarat

Remark :

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

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2252640**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301137-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 2 of 5

<b>Sample Number</b>	2252640-2						
<b>Sampled Date</b>	Jun 15, 2022 10:00 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 2 : บริเวณคลองขุมพล ณ จุดระบายน้ำทิ้ง (บริเวณฝ่ายทยายศร)						
<b>Date Analysis Commenced</b>	Jun 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.2	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	30.5	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	155	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	48	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Nattawut Athomprommarat

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

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2252640**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301137-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

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<b>Sample Number</b>	2252640-3						
<b>Sampled Date</b>	Jun 15, 2022 11:25 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 3 : บริเวณจุดบรรจบระหว่างคลองชุมพลกับแควหนุมาน						
<b>Date Analysis Commenced</b>	Jun 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.6	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.1	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	40	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	42	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Nattawut Athomprommarat

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Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2252640**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301137-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

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<b>Sample Number</b>	2252640-4						
<b>Sampled Date</b>	Jun 15, 2022 11:10 AM						
<b>Sample Description</b>	Surface water						
<b>Location</b>	จุดที่ 4 : บริเวณแควหนุมานเหนือจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานขึ้นไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jun 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.4	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.7	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	47	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	52	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Nattawut Athomprommarat

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

TESTING

No.0042

**Lot ID: 2252640**

Date Received : Jun 15, 2022

Date Reported : Jun 23, 2022

Report Number : 2301137-1

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location:** GNC

Page 5 of 5

<b>Sample Number</b>	2252640-5						
<b>Sampled Date</b>	Jun 15, 2022 11:40 AM						
<b>Sample Description</b>	Surafce water						
<b>Location</b>	จุดที่ 5 : บริเวณแควหนุมานท้ายจุดบรรจบระหว่างคลองชุมพลกับแควหนุมานลงไป 500 เมตร						
<b>Date Analysis Commenced</b>	Jun 15, 2022						
<b>Condition of Sample</b>	Contained in one amber glass bottle, one BOD bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C) *	mg/L	-	2	<2	≤4	APHA (2017), 5210 B	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	Based on US EPA, Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	≥2	Based on APHA (2017), 4500-O(C)	Rayong
Oil & Grease *	mg/L	-	3	<3	No Standard	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.0-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Temperature *	Degree C	-	-	31.0	n'	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	48	No Standard	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	46	No Standard	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

**Sampled By :** Paramet Sattayakun , Nattawut Athomprommarat

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Approved by

*N. Banngmit*

Narumon Banchongkit  
Supervisor

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