

ภาคผนวก ค-6

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คุณภาพน้ำทิ้ง (โรงงานอุตสาหกรรม)



TESTING

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongbakraed Road, Nongbakraed, Nongkhayae, Saraburi Thailand 18140  
P/O:  
Project Name: Factory 1 Monthly  
Project Location: WHA S2

No. 0009  
Lot ID: 21150387  
Date Received: Jan 05, 2023  
Date Reported: Jan 16, 2023  
Report Number: 2520960-1

Sample Number								12150	Page 1 of 1
Sample Date								Jan 19, 2023 11:35 AM	
Sample Description								Q2 Waterfall WWC*	
Container ID								SL 021, 21414	Plat 54
Date Sampled/Commented								Jan 19, 2023	SIR#
Condition of Sample								Returned to 19 amber glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservation standards	
Physical Property								Sample, a mix of oil, sand and turbid	
Analyte	Unit	LOD	LOQ (LOD)	Result	Guideline / Substitution	Method	Testing Location		
Water Testing									
BOD (5 Day @ 20 Degrees C)	mg/L	-	2.0	6.1	\$500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1919, sec 1905	Birmingham		
COO	mg/L	1.5	5	33	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 1919, sec 1920	Birmingham		
Oil & Grease *	mg/L	-	3	7	610	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 1919, sec 1920	Birmingham		
pH (at site) *	-	-	7.1	5.5-6.0		Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 1919, sec 1910	Birmingham		
Temperature *	°C (at site)	-	20.9	45		Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 1919, sec 1910	Birmingham		
Total Suspended Solids Determined (TD) -100 Degrees C	mg/L	-	5	15	\$200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 1919, sec 2541	Birmingham		

**Guideline:** Standard of WVA Sarabun Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Kamchai Suttha-watthanawong 1-204-1-6616  
**Remark:**

LOQ	Limit of Detection
<LOQ	Lower than LOQ (Limit of Quantification) / LOQ (Limit of Reporting)
Acoustic	marked "N" is not included in scope of Accreditation ISO/IEC 17025
	The laboratory has been accredited as an analytical laboratory according with the ISO/IEC 17025

[illegible]

## TESTING

Client	WHA Utilities and Power Public Company Limited 111 Moo 7, Nongtakraed Road, Nongtakraed, Nongbhai, Saraburi Thailand 18140	Lot ID: 22150389
P/O		Date Received Jan 11, 2023
Project Name	Factory 1 Monthly	Date Reported Jan 16, 2023
Project Location	WHA S2L	Report Number 2520967-1

Sample Number		22103091					Page 4 of 4
Sample Date		Jan 11, 2023 1:15 PM					
Sample Description		Group 2 Wastewater WWCT					
Container ID		SL-205-23	PL- 77-78	Silo Fajrskia Corporation			
Date Analysis Commenced		Jan 12, 2023					
Description of Sample		Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards (USEPA-10599)					
Physical Property		Contains no odor, color, solid and no fluid					
Analyte	Unit	LOD	LOQ	Result	Qualifier / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days @ 20 degrees C)	mg/L	-	2.0	3.8		\$500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 10209 & part 4000 - C
COD	mg/L	1.5	5	31		\$750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 10209 & part 4000 - C
Oil & Grease *	mg/L	-	3	4		\$10	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 10208
pH (at 20°C)	-	-	-	7.6		15.5-0.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 10208 - (pH)
Temperature *	Degrees C	-	-	27.5		945	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 10208
Total Suspended Solids Dried at 103-105°C	mg/L	-	5	10		\$200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, part 10400

**Baseline:** Standard of WHO Surveillance Unit, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling by:** Torrance Puangko widoewidoe +204-7707

**Remarks:**

- LOQ = Limit of Detection
- "C" = Lower than LOQ (Limit of Quantitation) or LOQ (Limit of Reporting)
- Analysis marked "x" were not included in scope of Accreditation ISO/IEC 17025.
- Analysis marked "x" were not included in a laboratory accreditation scope.

Technical/Management

Srinik P

Srinik P  
Superior  
Winnipeg (204-473-4732)

Approved By

Karl Ah

Karl Ahn  
Senior Manager  
Winnipeg (204-473-4732)

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**LEGAL NOTICE**

**PROJECT: SAGUAY FISHING** (Winnipeg, Manitoba) (204-473-4732)



## TESTING

Client: WHA Utilities and Power Public Company Limited  
 111 Moo 7, Nonglekrai Road, Nonglekrai, Nongkhai, Saraburi Thailand 18140  
 P/O:  
 Project Name: Factory 1 Monthly  
 Project Location: WHA SE  
 No 0009  
 Lot ID: 22150392  
 Date Received: Jan 04, 2023  
 Date Reported: Jan 11, 2023  
 Report Number: 2520873-1

Sample Number		22100791					Page 1 of 1	
Sample Date		Jan 04, 2022 10:55 AM						
Sample Description		Group 2 Wastewater WW-CF						
Contact ID		IS_006_2554						
Location		Plant		SIN		Guardian Industries Corp Ltd.		
Date Analysis Commenced		Jan 04, 2023						
Container of Sample		Conducted in one amber glass bottle and three plastic bottles. sample containers comply to pre-treatment - preservation standards (APHA/USEPA)						
Physical Property		none, color, odor, and turbid						
Analysis		Unit	LOD	LOQ	Result	Statistical / Scientific	Method	Testing Location
Water Testing								
BOD (5 days at 20 degrees C)		mg/L		2	139	6500	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2011, part 2210 to part 4200, C/C	Bingqing
COD		mg/L	1.5	5	428	8750	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2011, part 2210 to part 4200, C/C	Bingqing
Diss. G. Residue		mg/L		3	7	610	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2011, part 2210 to part 4200, C/C	Bingqing
pH (at 20°C)					7.2	5.5-6.0	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2011, part 2210 to part 4200, C/C	Bingqing
Temperature		Degrees C			27.8	5-15	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2011, part 2210 to part 4200, C/C	Bingqing
Total Suspended Solids Dried at 103-105 degrees C		mg/L		5	15	8200	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2011, part 2210 to part 4200, C/C	Bingqing

**Guideline:** Standard of WSA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Jarant Khotwong w020040461-2014-57517

**Remarks:**

LOQ	Limit of Detection
LOQ	Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

[illegible]













Sample Number	2121020-1						
Sampled Date	26 Jul 2023 11:19 AM						
Sample Description	Group 2 Wastewater WWTW						
Contract ID	SLP_2121020-1			Site: Nisun (Thailand) Co., Ltd.			
Contractor	26 Jul 2023						
Condition of Sample	Collected in the amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation status						
Physical Property	Value: 1 color, some rsted and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Method/Note	Method	Testing Location
Water (5 days)							
BOD 5 Test at 20 degree C	mg/L	-	2	81	5300	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 20d at 20°C, 2017, pp15218 & 2017, pp15219 & 2017, pp15220	Sengkang
COD	mg/L	1.5	9	389	5700	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 20d at 20°C, 2017, pp15220	Sengkang
Oil & Grease *	mg/L	-	3	7	530	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 20d at 20°C, 2017, pp15220	Sengkang
pH (on site) *	-	-	-	7.8	3.5A-6.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 20d at 20°C, 2017, pp15220	Sengkang
Temperature *	°C	-	20.0	49	490	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 20d at 20°C, 2017, pp15220	Sengkang
Total Suspended Solids Determined at 103-105 degree C	mg/L	-	5	47	5200	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 20d at 20°C, 2017, pp15240	Sengkang

**Guideline:** Standard of WWA Sanarik Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Jinnat Khowdar v05090517-204-1-7517

**Remark:**

LOD: Limit of Detection  
 \* "x" Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)  
 Analysis(s) marked "x" where not included in scope of Accreditation: ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

CV - S

Nam Seung  
Supervisor  
WU0019456 7-204-44713

Approved by

Karlom Anil

Karlom Anil  
Senior Manager  
WU0019456 7-204-4111

[illegible]

Sample Number	221004731						
Sample Date	Jan 08, 2023 11:31 AM						
Sample Description	Group 2 Waterbury HWCT						
Container ID	508_208_250 Net 142N						
Collection Date	Jan 07, 2023						
Condition of Sample	Collected in an amber glass bottle and three plastic bottles, sample containers cooled to pre-treatment/preparation temperatures.						
Chemical Analysis	Aqua/GDPA						
Physical Property	Yellow, a lot of odor, solid and turbid						
Analysis	Unit	LOD	LOQ	Results	Compliance / Limitation	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	83	§ 300	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, § 9210.1 (B)	Berglund
COD	mg/L	1.5	3	276	§ 750	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, § 9210.2 (C)	Berglund
Oil & Grease *	mg/L	-	3	9	§ 10	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, § 9220.0	Berglund
pH (in situ)				7.9	§ 109	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, § 9120.8	Berglund
Temperature *	degree C	-	-	27.8	§ 45	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, § 9100.1 (B)	Berglund
Total Suspended Solids Dried at 105 degrees C	mg/L	-	5	64	§ 200	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, § 9260.0	Berglund

**Guideline:** Standard of WSA Sanah Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Jinnat Khowar, WU/MS/18-204-7517

**Remark:**

LOD: Limit of Detection  
+ : Lower than LOD (Limit of Quantitation) / < LOD (Limit of Reporting)  
Arabic@marked : Value not included in scope of Accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory according to the ISO/IEC 17025.

Technical Management

C. S.  
Nann Senev  
Supervisor  
m08090611-204-04753

Approved by

K. Anil  
Kankam Anil  
Senior Manager  
m08090611-204-04111

[illegible]

Sample Number	22-054-1							
Sample Date	03-18-2023							
Sample Description	Grout 2 (Waterfront 100-C)							
Contract ID	53-151-2023	Plot #	5	Site	RiverROD Pulp & Paper Company (LTD)			
Date Analysis Commenced	03-20-2023							
Condition of Sample	Conformed to all amber glass bottles and three plastic sample containers conform to pretreatment / preservation / storage instructions.							
Physical Property	APAC-010292 Tallent, white color, 1.04 of solid and some lumps							
Analysis	Unit	LOD	LOD	Remark	Guideline / Specification	Method	Testing Location	
Water: Testing								
800-15 days at 20 degrees C	mg/L		2	10	6500	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1992, 23rd ed., part 1210-B, para 6000-10-C	Bingham	
COD	mg/L	1.5	5	118	6750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1992, 23rd ed., part 1910-B, para 6700-510	Bingham	
Oil & Grease *	mg/L		3	5	510	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1992, 23rd ed., part 1600-B, para 6600-B	Bingham	
pH (at 20°C)					7.1	5.9-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1992, 23rd ed., part 1910-B, para 6600-B	Bingham
Temperature *	Degrees C				26.3	645	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1992, 23rd ed., part 1910-B, para 6600-B	Bingham
Total Suspended Solids (dry at 103-105 degrees C)	mg/L		5	49	3200	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1992, 23rd ed., part 2550-D	Bingham	

**Guideline:** Standard of WWA Sarabul Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Jeralan Khondakir wsl@saia.ir t: 204-67517

**Remark:**

L50: Limit of Detection  
“L” : Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)  
Analytical method is included in scope of Accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Siriluk P.  
Sri A Purnagang  
Supervisor  
msDUMR06 - 204-m-4720

Approved by

Kade Anik  
KARANGAN: Anik  
Senior Manager  
msDUMR06 - 204-m-4111

[illegible]









## Analysis / Test Report

Client WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplekardi Road, Nongplemah, Nongkhae, Saraburi Thailand 18140  
P/O :  
Project Name Factory I Monthly  
Project Location WHA S3L

Sample Number						22-10479-1		Printed at 11/18/2014 10:56 AM
Sample Date						Jun 04, 2012 10:30 AM		
Sample Description						Cross 2 Waterline WCHC		
Container ID						CLS 101-2514	Page #	1
Date Analysis Commenced						Jun 05, 2012	Site	SAN FRANCISCO CO, CALIF.
Detailed Description of Sample						Contents of one amber glass bottle and three plastic bottles; sample containers comply w/ pretreatment - preservation standards (APHA, 1995)		
Physical Property						Organic, some color, solid and turbid		
Analyte	Unit	LOD	Result	Qualifier / Identification	Standard Method	Testing Location		
Water Testing								
BOD (5 Day @ 20 degrees C)	mg/L	-	2	13	\$500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 5121 pp. 4900 G-C	Bioscience Resource Project	
Fecal Coliform *	mpkL	1.5	5	115	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 1523 D	Bioscience Resource Project	
Total Solids *	mg/L	0.03	0.1	Not Detected	61	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 1523 D	Bioscience Resource Project	
Oil & Grease *	mg/L	-	3	9	610	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 1523 B	Bioscience Resource Project	
pH (at 20°C) *		-		8.1	5.5-A-6	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 4506	Bioscience Resource Project	
Temperature *	Degrees C	-		17.6	945	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 210-C	Bioscience Resource Project	
Total Suspended Solids Determined at 103-105 degrees C	mg/L	-	5	10	\$300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 19th ed., 2011, pp. 2540-D	Bioscience Resource Project	

**Guideline:** Standard of Wha Saraban Industrial Limit, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Tereowati Puangko, ref:BUK001-1-204-0-7107

**Remark:**

- LOD : Limit of Detection
- "<" : lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)
- Analytic(s) marked \* have not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory compliant with the ISO/IEC 17025

[illegible]

## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nonglakrad Road, Nonglakmah, Nongkhae, Saraburi Thailand 1804  
P/O :  
Project Name : Factory Monthly  
Project Location : WHA S2L

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Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater, 23rd ed., 2017, part 2540 C	Bangka
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Guideline: Standard of WWA Sanabai Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

[illegible]

## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nonglekrad Road, Nonglekrom, Nongkhai, Saraburi Thailand 1514  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WAA, ST

[illegible]

**Guideline:** Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Tetravac Puangrak wongkumwong 1-204-4-7107

**Remark:**

LOD : Limit of Detection

"C" : Lower than 1/50 (Limit of Quantitation) / 1/50 (Limit of Reporting)

Analyses of related 1 factor are included in scope of Accredited ISO/IEC 17025.

This laboratory has been accredited as an external laboratory complying with the ISO/IEC 17025.

[illegible]









Sample Information							Page 1 of 1
<b>Sampling Number</b>	21-045961-1						
<b>Sampled Date</b>	Jan 05, 2023 11:30 AM						
<b>Sample Description</b>	Group 2 Waterline WWTW						
<b>Contact ID</b>	RL-207-255A	Fiber	ESJ60	<b>Site:</b> "Hansen" (Thayer) Camp Ground			
<b>Date Analyte Commanded</b>	Jan 05, 2023						
<b>Description of Sample</b>	Contained in the amber glass bottles and three plastic bottles; sample containers comply to pretreatment - preservative standards						
<b>Physical Property</b>	White, some odor at a bit of water and turbid						
Analyte	Unit	LQD (µg/L)	Result	Surrogate / Specification	Method	Testing Location	
<b>Water Testing</b>							
BOD (5 days @ 20 degrees C)	mg/L	< 2.0	27.6	\$500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2nd edn, 1st pub 1988, 2nd pub 1995, 2nd pub 2018, 2nd pub 2021	Bingling	
COD	mg/L	1.5	5	153	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2nd edn, 1st pub 1988, 2nd pub 1995, 2nd pub 2018, 2nd pub 2021	Bingling	
Oil & Grease *	mg/L	< 3	4	610	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2nd edn, 1st pub 1988, 2nd pub 1995, 2nd pub 2018, 2nd pub 2021	Bingling	
pH (at site) *		<	7.5	15.4-0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2nd edn, 1st pub 1988, 2nd pub 1995, 2nd pub 2018, 2nd pub 2021	Bingling	
Temperature *	degrees C	<	26.5	44.5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2nd edn, 1st pub 1988, 2nd pub 1995, 2nd pub 2018, 2nd pub 2021	Bingling	
Total Suspended Solids Dissolved at 103-05 degrees C	mg/L	< 5	75	\$200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2nd edn, 1st pub 1988, 2nd pub 1995, 2nd pub 2018, 2nd pub 2021	Bingling	

[illegible]

Sample Number							Page 1 of 1
Sample Date							
Sample Description							
Contract ID							
Date Analysis Commenced							
Condition of Sample							
Physical Property							
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days @ 20 degrees C)	mg/L	-	2.0	3.1	550	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2019, pp. 517B, pp. 5191 - C	Biological
COD	mg/L	1.5	5	32	6750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2019, pp. 517B, pp. 5191 - C	Biological
Oil & Grease +	mg/L	-	3	3	615	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2019, pp. 517B, pp. 5191 - C	Biological
pH (at pH)	-	-	-	7.6	5.5-8.5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2019, pp. 517B, pp. 5191 - C	Biological
Temperature +	Degrees C	-	27.6	645		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2019, pp. 517B, pp. 5191 - C	Biological
Total Suspended Solids (at 103-105 degrees C)	mg/L	-	5	7	6200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2019, pp. 517B, pp. 5191 - C	Biological

Technical Management

Siriluk P

Siriluk Pumping  
Superior  
Midland # 4 224-4752

Approved by Kate A.

Karimkar: Arak  
Senior Manager  
Midland # 204-6111

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Sample Number	21-105926-1						Page 1 of 1
Sample Date	Jun 11, 2023 @ 1:00 AM						
Sample Description	Group 2 Waterline WACV						
Contact ID	FL, loc 2556	Plot	147			Site	75 "Sh (Thailand) CO
Date Analyzed/Commenced	Jun 12, 2023						
Condition of Sample	Contents of one amber glass bottle and three plastic bottles; sample containers capped to prevent/ preserve/ preserve/ standard						
Physical Property	WV, some odor, solid and fused						
Analyte	Unit	LOD	LOQ	Result	Qualitative / Identification	Method	Testing Location
Water Testing							
EC0 (5 days @ 20 degrees C)	mg/L	~	2.0	5.4	\$500	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 23rd ed. (2017) (9151 B, 9100-01-02)	Brinkhoff
COO	mg/L	1.5	5	86	6750	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 23rd ed. (2017) (9250-01)	Brinkhoff
Oil & Grease *	mg/L	~	3	3	6.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 23rd ed. (2017) (9250-01)	Brinkhoff
pH (in air) *	~	~	~	7.8	5.5-6.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 23rd ed. (2017) (9250-01)	Brinkhoff
Temperature *	Degrees C	~	~	28.2	545	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 23rd ed. (2017) (9250-01)	Brinkhoff
Total Suspended Solids Determined at 103-105 degrees C	mg/L	~	5	6	\$200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 23rd ed. (2017) (9250-01)	Brinkhoff

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Sample Number	121024-1							Page 1 of 1
Sample Date	Jan 11, 2023 10:10 AM							
Sample Description	Group 2 Watermeter W60-CF							
Contract No.	SL, 474, 2017							
Client Analyst/Commented	Jan 12, 2023 13:51:54 Site: W&A Corporate Public Limited Company							
Condition of Sample	Collected in amber glass bottles and three plastic bottles, sample containers cap to pre-treatment - preservation standard (MS-602020)							
Physical Property	Yellow, a lot of colour, solid and undist							
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification		Testing Location	
<b>Water Testing</b>								
DO (15 days @ 20 deg C)	mg/L	-	1.0	37.2	\$100		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017 (part 19.10.10)	
COO	mg/L	1.5	5	(6)	6750		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017 (part 19.10.10)	
Oil & Grease *	mg/L	-	3	4	510		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017 (part 19.10.10)	
pH (at site) *	-	-	-	7.9	5.5-8.0		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017 (part 19.10.10)	
Temperature *	Degrees C	-	-	20.1	6-45		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017 (part 19.10.10)	
Total Suspended Solids (D11 at 103-10 deg C)	mg/L	-	5	66	\$200		Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017 (part 19.10.10)	

[illegible]

Sample Number	22155001									
Sample Date	Jan 12, 2023 10:55 AM									
Sample Description	Group 2 Wastewater WW-C									
Contract ID	CL-INT-2307			Part	5343					
Data Analysis Commenced	Jan 12, 2023									
Description of Sample	Combined 5 of one amber glass bottle and three plastic bottles, sample containers comply by pre-treatment - preservative standard									
Physical Property	Wastewater, a lot of other, glass and used									
Analyte	Unit	LOD	LOQ	Result	Qualifier / Specification	Method	Testing Location			
Water Testing BOD 5 (over 20 degree C)	mg/L	-	2.0	17.2	5300	Standard Methods for the Examination of Water and Wastewater, APHA, 1998, 23rd ed., part 1919, 19th ed., part 1919	Bimble			
COD	mg/L	1.5	5	117	6700	Standard Methods for the Examination of Water and Wastewater, APHA, 1998, 23rd ed., part 1919, 19th ed., part 1919	Bimble			
Oil & Grease *	mg/L	-	3	4	810	Standard Methods for the Examination of Water and Wastewater, APHA, 1998, 23rd ed., part 1919, 19th ed., part 1919	Bimble			
pH (at 20°C)	-	-	-	7.6	55.0-60	Standard Methods for the Examination of Water and Wastewater, APHA, 1998, 23rd ed., part 1919, 19th ed., part 1919	Bimble			
Temperature *	°C	-	-	20.2	645	Standard Methods for the Examination of Water and Wastewater, APHA, 1998, 23rd ed., part 1919, 19th ed., part 1919	Bimble			
Total Suspended Solids Dried at 105-108 degree C	mg/L	-	5	31	9200	Standard Methods for the Examination of Water and Wastewater, APHA, 1998, 23rd ed., part 1919, 19th ed., part 1919	Bimble			

Technical/Management	<p><b>Siriluk P.</b></p> <p>Srila Purnaga Supervisor IndoBrewed - 204-4720</p>	<p>Approved by <b>Karl A. Aul</b></p> <p>34000400 Ave Senior Manager IndoBrewed - 204-4611</p>
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Sample Number	22 (04/12)						
Sampled Date	Jan 09, 2012 10:45 AM						
Sample Description	Group 2 Waterworks WWS-CF						
Location ID	55, 50/1, 2557	Point	257	Site	World Quarry Co., Ltd.		
Location	Point 1						
Date Analysts Commenced	Jan 09, 2012						
Condition of Sample	Handed in in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation status						
Physical Property	Solid, some colour, solid and liquid						
Analyte	Dose	Unit	LOD (LOQ)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
ROD (15 days @ 20 Degree C)	mg/L		2.0	17.2	\$500	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 19th ed., 2011, p/15419, 161, 1600, C17C	Bangkok
COO	mg/L	1.5	5	87	\$750	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 19th ed., 2011, p/15220, 161, 1600, C17C	Bangkok
Oil & Grease *	mg/L		3	4	\$10	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 19th ed., 2011, p/15220, 161, 1600, C17C	Bangkok
pH (at 20°C)				7.3	5.5-8.0	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 19th ed., 2011, p/16030, 161, 1600, C17C	Bangkok
Temperature *	Degrees C			27.6	6-45	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 19th ed., 2011, p/16030, 161, 1600, C17C	Bangkok
*For Sp. Specified Solids Determined at 125.0°C	mg/L		5	20	\$200	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 19th ed., 2011, p/25010, 161, 1600, C17C	Bangkok

[illegible]



## TESTING

Lot ID: 239337  
Date Received : Feb 07, 2023  
Date Reported : Feb 14, 2023  
Report Number : 2552343-2

Sample Number	228127-1					
Sampled Date	Feb 07, 2023 1:39 PM					
Sample Description	Group 2 Watermeter WWS-CF					
Location	SLD_06_0500 Plot 40.24					
Date Analysis Commenced	Feb 06, 2023					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles; sample containers kept to pretreatment + preservation standards (APHA 2005)					
Analyte	Unit	LOD (µg/l)	Result	Compliance / Specification	Method	Testing Location
Bacter Testing						
Water (1 days at 20 degree C)	npt/L	< 2.0	2.7	£500	Standard Method for the Examination of water and wastewater - APHA, APSS & WEF, 2005, pp. 5212-6, pp. 4100 - C	Norfolk
COD	npt/L	< 25	38	£750	Standard Methods for the Examination of water and wastewater - APHA, APSS & WEF, 2005, pp. 5212-6, pp. 5100 - D	Norfolk
Oil & Grease *	npt/L	< 3	9	£10	Standard Methods for the Examination of water and wastewater - APHA, APSS & WEF, 2005, pp. 5212-6, pp. 4100 - C	Norfolk
pH (mV cm)	-	-	7.3	£3.0-£8	Standard Methods for the Examination of water and wastewater - APHA, APSS & WEF, 2005, pp. 5212-6, pp. 4100 - C	Norfolk
Temperature *	Degrees C	-	20.7	£45	Standard Methods for the Examination of water and wastewater - APHA, APSS & WEF, 2005, pp. 5212-6, pp. 4100 - C	Norfolk
Total Suspended Solids (dry at 103-105 degrees C)	npt/L	< 5	44	£200	Standard Methods for the Examination of water and wastewater - APHA, APSS & WEF, 2005, pp. 5212-6, pp. 4100 - C	Norfolk

Guideline: Standard of WWA Sector Industrial and Maximum based for consumer discharge to avoid environmental impact (see table below)

Sample By: Thana Jerin m02040601-1204-4-5414

[illegible]

## TESTING

Lot ID: 239280  
Date Received : Feb 07, 2023  
Date Reported : Feb 14, 2023  
Report Number : 2552140-1

Sample Number	2742801					Page 1 of 1			
Sample Date	Feb 07, 2013 11:35 AM								
Sample Description	Group 2 Wastewater WWS-C7								
Contract ID	SL 0612554	Test: 7776	Site: Fujikahi Corporation						
Date Analysis Commenced	Feb 06, 2013								
Container of Sample	Combined in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (USEPA 8210-8)								
Physical Property	Volatile, some colored, solid and no settled								
Analyte	Unit	LOD	LOQ	LOU	Result	Guideline / Specification	Method	Testing Location	
<b>Water Testing</b>									
BOD (5 days @ 20 degrees C)	mg/L		2.0	4.0	6500		Standard Methods for the Examination of Water and Wastewater, 19th ed., 5210 B, port 440	Biopark	
COD	mg/L		25	38	5750		Standard Methods for the Examination of Water and Wastewater, 19th ed., 5200 C, port 440	Biopark	
Oil & Grease *	mg/L		3	5	510		Standard Methods for the Examination of Water and Wastewater, 19th ed., 9100 A, port 440	Biopark	
pH (at site) *					8.0	55-9.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 9104 B, (a) 200	Biopark	
Temperature *	Degrees C				29.7	645	Standard Methods for the Examination of Water and Wastewater, 19th ed., 9104 B, (a) 200	Biopark	
* Use Superbott Seals Dried at 103-105 Degrees C	mg/L		5	6	6200		Standard Methods for the Examination of Water and Wastewater, 19th ed., 9104 B, (a) 200	Biopark	

**Guideline:** Standard of WTA Serabun Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Thana Janya wudhawan@1-204-y-5414

**Remark:**

LOD	Limit of Detection
LOQ	Lower Limit LOQ (Limit of Quantitative) / LOR (Limit of Reporting)
Analysis marked	is/are not included in scope of Accreditation ISO/IEC 17025.
The laboratory has been assessed	as an approved laboratory certified with the ISO/IEC 17025.

Technical Management	<u>Siriluk P</u>	Approved by	<u>Koh Aih</u>
	Siruk Pongpung Superior Midland - 2004720		Karimkhan Anik Siruk Heng Midland - 2004611
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TESTING

Lot ID: 239283  
Date Received: Feb 07, 2023  
Date Reported: Feb 14, 2023  
Report Number: 2352146-5

Sample Number	231203-1						
Sampled Date	Feb 07, 2023 9:40 AM						
Sample Description	Group 2 Wastewater WWT-2						
Contract No.	SL24052156						
Location	Point 3						
Client	Guaridan Industries Corp Ltd.						
Date Analysis Commenced	Feb 08, 2023						
Container of Sample	Continued in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment / preservation standards (ASTM D3929)						
Physical Property	Yellish, some odor, solid and turbid						
Analysis	Unit	LOD	LOQ	Result	Qualification / Specification	Method	Tested Location
Water Testing:							
BOD (5 days @ 20 degree C)	mg/L	-	2.0	6.8	5300	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 5210 B, part 5300 C-201, part 5310 B, part 4500 C-04	EnviroLab
COD	mg/L	-	15	52	6750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 5210 B, part 5300 C-201, part 5320 D	EnviroLab
Oil & Grease *	mg/L	-	3	<3	630	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 5210 B, part 5300 C-201, part 5320 B	EnviroLab
pH (on site)	-	-	-	7.7	530-04	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 5210 B, part 5300 C-201, part 4500 H-02	EnviroLab
Temperature *	Degree C	-	-	29.2	545	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 5210 B, part 2550 B	EnviroLab
Total Suspended Solids (dried at 105±0.5)	mg/L	-	5	13	6200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 5210 B, part 2550 B	EnviroLab

Guideline : Standard of WWA Samsari Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant,  
Sampling By : Thamea Jariya wechayuwat \*024-5414

Remark :

- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) // OR (Limit of Reporting)

Technical Management CW-S Approved by Karl A. H.

Nitin Saxena  
Superior  
Widespread - 1204-4773

Ramkumar Anand  
Senior Manager  
Widespread - 204-6111

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TESTING  
No. 0009  
Lot ID: 239299  
Date Received: Feb 06, 2023  
Date Reported: Feb 13, 2023  
Report Number: 2552216-1

Analysis / Test Report

TESTING  
No. 0009  
**239319**  
Received Feb 02, 2023  
Accepted Feb 09, 2023  
Number 255294-1

Analysis / Test Report

TESTING  
No. 0009  
Lot ID: 239313  
Date Received: Feb 03, 2023  
Date Reported: Feb 16, 2023  
Report Number: 3553275-1

Analysis / Test Report

TESTING  
No. 0009  
Lot ID: 239351  
Date Received: Feb 08, 2023  
Date Reported: Feb 15, 2023  
Report Number: 2552424-1

Analysis / Test Report

TESTING  
No.0009  
239314  
ived Feb 06, 2023  
sted Feb 13, 2023  
mber 2552280-1

Analysis / Test Report

TESTING  
No.0009  
Lot ID: 239352  
Date Received : Feb 06, 2023  
Date Reported : Feb 13, 2023  
Barcode Number : 25524251

Analysis / Test Report

TESTING  
No 0009  
Lot ID: 239320  
Date Received : Feb 07, 2023  
Date Reported : Feb 14, 2023  
Resort Number : 2552285-1

Analysis / Test Report

LABORATORY ACCEPTANCE  
SLA 001

TESTING  
No. 0009  
239304

Issued Feb 07, 2023  
Revised Feb 14, 2023  
Number 25522173-1

Analysis / Test Report

  
**TESTING**  
 No. 0009  
**Lot ID: 239361**  
 Date Received | Feb 07, 2023  
 Date Reported | Feb 14, 2023  
 Report Number | 7187340.5

Technical Management: Chen S Approved by: Kevin A

Nate Seng  
Supervisor  
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Kevin A  
Senior Manager  
kwseng@afglobal.com

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RIGHT SOLUTIONS® August 17, 2010 7:02 AM









Sample Number							275156-1	Page 1 of 1
Sample Date		Feb 26, 2013 3:30 AM						
Sample Description		Group 2 Walkdown WWC-T						
Container ID		05, 012, 2156		West #		Site	Sam From Class Co.	
Date Analysis Commenced		Feb 26, 2013						
Condition of Sample		Contained in grey amber glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservative/stored						
Physical Property		Gases, some odors, a bit of solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Qualitative / Satisfaction	Method	Testing Location	
Water Testing								
BOD (5 days @ 20 degree C)	mg/L		2.0	0.0	\$500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 1919 B, part 4000 - C19	Bimpong	
COD	mg/L		25	69	\$750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 1919 B, part 5201 C	Bimpong	
Formaldehyde *	mg/L	0.03	0.1	<0.1	\$1	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 5221 C	Bimpong	
Oil & Grease *	mg/L	0	4	0.0	\$10	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 5540 C	Bimpong	
pH (at 25 °C)				7.9	\$34.00	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 1919 B	Bimpong	
Temperature *	Degree C		30.3	34.5	\$45	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 1919 B	Bimpong	
Total Sol. Suspended Solids dried at 103 °C	mg/L		5	17	\$300	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, part 1919 B	Bimpong	

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By : Termost Puangka wongwanayit + 204-9-7107

<b>Technical Management</b>	<u>Siriluk P.</u> Siriluk Pumping Superior midwest@msd.com   204-4720	<b>Approved by:</b> <u>Kate Aik</u> Katarinok Arik Senior Fire Nurse midwest@msd.com   204-4711
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Sample Number	2791							Page 1 of 2
Sampled Site	Feb 01, 2013 10:00 AM							
Sample Description	Group 2 Watermeter WW-C							
Contract ID	SLD_05314		Project		516			Site San Fernando Co, Ltd (at)
Date Analyzed/Commenced	Feb 01, 2013							
Condition of Sample	Collected in one amber glass bottle and three plastic bottles; sample containers comply to preservation - preservation status (APAS/ISPT)							
Physical Property	Containers, materials, some used and not used							
Analysis	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location	
Amphibic Testing	mg/L	0.0003	0.0003	0.002	61.2	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
Water Testing								
BOD (5 days at 20 degree C)	mg/L	-	2.0	< 0.0	6300	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
COD	mg/L	-	25	< 25	6780	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
Oil & Grease *	mg/L	-	3	2	430	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
pH (in situ)	mg/L	-	-	7.7	154-6.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
Temperature *	Degree C	-	-	26.0	941	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1720	53000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	
Total Suspended Solids Dried at 105/103 degree C	mg/L	-	5	< 5	5200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 9120 B, 9120 B-2	Berkeley	

Guideline : Standard of WPA Sarabun Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

[illegible]

Project Location: Wink, SL							Page 1 of 2
Sample Number	275020						
Sample Date	Fri 03/23/2023 10:55 AM						
Sample Description	Gravel of Watercourse WW-07						
Contract ID	SL-07-21544		Cell 42-79.58		Site	Siam Group Industry (SiamUK) Co., Ltd.	
Contract	Facility 2						
Date Analysis Completed	Fri 04/23/2023						
Analysis of Sample	Conducted on five amber glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservation standards (AP-4000/CPA)						
Physical Property	Yellow, some odor, solid and settled						
Analyte	Unit	LOD	LOQ	Result	Guideline / Substitution	Method	Testing Location
Water Testing: BOD (5 days @ 20 degrees C)	mg/L	-	2.0	5.8	\$500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61	Bangkok
COD	mg/L	-	25	67	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61	Bangkok
Oil & Grease *	mg/L	-	3	4	\$10	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61	Bangkok
pH (at 25°C)	-	-	-	7.3	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61	Bangkok
Temperature *	Degrees C	-	-	27.4	9-6	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61	Bangkok
Total Suspended Solids Determined at 103 ± 0.5 degrees C	mg/L	-	5	9	\$200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61, 2nd ed., 2011, pp 5219-61	Bangkok

**Guideline:** Standard of WHA Sarabun Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling by:** Terawat Pump&g waduwad - 204-s-707

**Remarks:**

- LOQ: Limit of Detection
- <LOQ: Lower than LOQ (Limit of Quantitation) / (OR) (Limit of Reporting)
- Analytical method / factors not included in scope of Accreditation ISO/IEC 17025.

[illegible]





## TESTING

Analysis / Test Report

## TESTING

Analysis / Test Report

TESTING  
At 0.05

22700-1							
Sample Number	Feb 01, 2013 1:30 PM						
Sample Description	Group 2 Waterbury WH-CT						
Location	EL-200	Plot	33	Site	Lake Beavering Can Co., Ltd.		
Location	Point 2						
Date Analysis Commenced	Feb. 01, 2013						
Analyst	Designed as an amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards						
Physical Property	(AMHAP/DEP) Cabinet, unlabeled, no solid or liquid						
Analyte	Unit	LOD	LOQ (LOE)	Results	Guideline / Description	Method	Testing Location
Water Testing							
BOD (5 days @ 20 degree C)	mg/L	-	1.0	15.3	\$500	Standard Method for the Determination of BOD and Water Quality, APHA, 1995, 1998, 2005, 2012, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606	

Guideline : Standard of WSA Sarabun Industrial Land, Maximum level for wastewater discharging to central wastewater treatment plant.  
Sampling By : Jinnat Khawler mdu0009@u-204-u-2517

Remark :

- LOD : Limit of Detection
- LOQ : Limit of Quantitation (LOQ = Limit of Reporting)
- Analysis marked "x" value not included in scope of Accreditation ISO/IEC 17025.

[illegible]

## TESTING

Analysis / Test Report

TESTING  
M-0000

Analysis / Test Report

TESTING  
No. 000

Sample Number	229091						
Sampled Date	Feb 07, 2023 : 16:59						
Sample Description	Group 2 Waterline - West CT						
Container ID	SL_229_2154	Weight	17.38	Site	The Hales Glen (Thailand) Co., Ltd.		
Date Analysis Commenced	Feb 08, 2023						
Container of Sample	Combined in one amber glass bottle and three plastic bottles. Sample containers comply to pretreatment + preparation standards.						
Physical Property	Yellow, a lot of odor, solid and turbid						
Analysis	Unit	Lot of Odor	LOD	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	63.0	5300	Standard Method for the Examination of Water and Wastewater, 19th ed., 2011 (part 511) B, part 511.8, part 511.9, C1	Bangkok
COD	mg/L	-	25	132	5780	Standard Method for the Examination of Water and Wastewater, 19th ed., 2011 (part 511) B, part 511.8, part 511.9, C1	Bangkok
Oil & Grease *	mg/L	-	3	10	530	Standard Method for the Examination of Water and Wastewater, 19th ed., 2011 (part 511) B, part 511.8	Bangkok
pH (on site) *	-	-	-	7.3	5.9-9.0	Standard Method for the Examination of Water and Wastewater, 19th ed., 2011 (part 450) - (H)	Bangkok
Temperature *	Degree C	-	-	30.7	14-5	Standard Method for the Examination of Water and Wastewater, 19th ed., 2011 (part 255) B	Bangkok
Total Suspended Solids Dry at 103-105 degree C	mg/L	-	5	31	5200	Standard Method for the Examination of Water and Wastewater, 19th ed., 2011 (part 254) D	Bangkok

Guideline: Standard of WHO Sewage Industrial Land; Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: Thamas Janya [wtj@wafri.org](mailto:wtj@wafri.org) +9044-45414

Format:

- USD Limit of Detection
- \*c Lower than LOQ (Limit of Quantitation) / LQR (Limit of Reporting)
- Analysis marked \* refers not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management		Approved by	
 Nethi Selang Supervisor WILMUTAWATI-204-4173		 Ranihah Amir Senior Manager WILMUTAWATI-204-4111	
The above mentioned bill of exchange is hereby approved and authorized by the Board of Directors of PT. BINA SARANA INDAH Tbk. to be cashed and to be paid by the Bank of Indonesia.			
KIRANA 01-02, RUMAH KINERJA 42, RUMAH KINERJA 43, RUMAH KINERJA 44, RUMAH KINERJA 45, RUMAH KINERJA 46, RUMAH KINERJA 47, RUMAH KINERJA 48, RUMAH KINERJA 49, RUMAH KINERJA 50, RUMAH KINERJA 51, RUMAH KINERJA 52, RUMAH KINERJA 53, RUMAH KINERJA 54, RUMAH KINERJA 55, RUMAH KINERJA 56, RUMAH KINERJA 57, RUMAH KINERJA 58, RUMAH KINERJA 59, RUMAH KINERJA 60, RUMAH KINERJA 61, RUMAH KINERJA 62, RUMAH KINERJA 63, RUMAH KINERJA 64, RUMAH KINERJA 65, RUMAH KINERJA 66, RUMAH KINERJA 67, RUMAH KINERJA 68, RUMAH KINERJA 69, RUMAH KINERJA 70, RUMAH KINERJA 71, RUMAH KINERJA 72, RUMAH KINERJA 73, RUMAH KINERJA 74, RUMAH KINERJA 75, RUMAH KINERJA 76, RUMAH KINERJA 77, RUMAH KINERJA 78, RUMAH KINERJA 79, RUMAH KINERJA 80, RUMAH KINERJA 81, RUMAH KINERJA 82, RUMAH KINERJA 83, RUMAH KINERJA 84, RUMAH KINERJA 85, RUMAH KINERJA 86, RUMAH KINERJA 87, RUMAH KINERJA 88, RUMAH KINERJA 89, RUMAH KINERJA 90, RUMAH KINERJA 91, RUMAH KINERJA 92, RUMAH KINERJA 93, RUMAH KINERJA 94, RUMAH KINERJA 95, RUMAH KINERJA 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### TESTING

Analysis / Test Report

## TESTING

Analysis / Test Report

TESTING  
No. 005

<b>Sample Number</b>	2103/21							
<b>Sampling Date</b>	Feb 03, 2023 10:45 AM							
<b>Sample Description</b>	Grout 2 (Waterproof) 400 CF							
<b>Contract ID#</b>	SL 061.2565	<b>Plot #14</b>	Site 75 Tech (Thailand) Co., Ltd.					
<b>Date Analysis Commenced</b>	Feb 14, 2023							
<b>Condition of Sample</b>	Grouted on one corner glass bottle and three plastic bottles. Customer's comply to preliminary inspection. preservation method: 100% humidity, 100% oxygen, 100% nitrogen							
<b>Physical Property</b>	Grout 2 (Waterproof) 400 CF, 100% humidity, 100% oxygen, 100% nitrogen							
<b>Analysis</b>	<b>Unit</b>	<b>ISO</b>	<b>ASTM</b>	<b>Customer Specification</b>	<b>Method</b>			
<b>Water Testing</b>								
W22 (in 28 days @ 20 degree C)	mg/L		1.0	7.2	5100			
					Standard Method for the Examination of water by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) 2181, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 273			

**Guideline:** Standard of WHO Safe Drinking Water Limit, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Technical Personnel, ref:GWSW/1-204-n-7107

**Remark:**

LOD	Limit of Detection
"L"	Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)

Analysis marked \* Items not included in scope of Accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management	<i>Siriluk P</i>	Approved by	<i>Kanok A.H</i>
	Siriluk Pongpang Supervisor midweek+1-204-4720		Kanokorn Aoi Senior Manager midweek+204-6111
<p><small>The above names and titles are for project purposes only. They do not constitute an employment contract. The employee is not an employee of the company. The employee is not an employee of the company. The employee is not an employee of the company.</small></p>			
<p>ADDRESS: 800 Phromphrakong Rd. Phromphrakong, Muang Nongkhai, Nakhon Phanom Province, Thailand. PHONE: +66 8 2763 3800 FAX: +66 8 2763 3710</p>			
<p>Other: <a href="http://www.afsglobal.com">www.afsglobal.com</a></p>			
<p>PROJECT DEADLINE: 2012/12/12 12:00:00 AM</p>			



## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongkhalad Road, Nongkhalad, Nongkhalad, Saraburi Thailand 18140  
P/O #: 239322  
Project Name: Factory / Monthly  
Project Location: WHA SL



TESTING  
No. 0509  
Lot ID: 239322  
Date Received: Feb 03, 2023  
Date Reported: Feb 10, 2023  
Report Number: 239322-1

Sample Number	239322-1							Page 1 of 1
Sample Date	Feb 03, 2023 1:00 PM							
Sample Description	Group 2 Wastewater WWT-CT							
Contract ID	SL_275_2557		P&A 13A1		Site			WHA Corporation Public Limited Company
Date Analysis Commenced	Feb 04, 2023							
Condition of Sample	Container in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA)							
Physical Property	Yellow, a bit of odor, solid and some turbid							
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location	
Water Testing								
BOD (5 days at 20 degree C)	mg/L	-	2.0	32.5	6300	Standard Method for the Determination of water and wastewater effluent, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
COD	mg/L	-	25	128	6750	Standard Method for the Determination of water and wastewater effluent, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
Oil & Grease *	mg/L	-	3	10	610	Standard Method for the Determination of water and wastewater effluent, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
pH (at 25°C) *	-	-	-	7.7	5.5-9.0	Standard Method for the Determination of water and wastewater effluent, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
Temperature *	Degree C	-	-	31.3	645	Standard Method for the Determination of water and wastewater effluent, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
Total Suspended Solids Dried at 103-105 Degree C	mg/L	-	5	25	6200	Standard Method for the Determination of water and wastewater effluent, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	

Guideline: Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: Nontarat Koral midwastest + 204-n-4722

Remarks:  
LOD: Limit of Detection  
LOQ: Lower than LOQ (Limit of Quantitation) (LOQ Limit of Reporting)  
Analytical method: Not used in scope of accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management: Kevin S.  
Nontarat Koral  
Supervisor  
midwastest + 204-n-4722

Approved by: Kantana A.  
Kantana A.  
Senior Manager  
midwastest + 204-n-4722



## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongkhalad Road, Nongkhalad, Nongkhalad, Saraburi Thailand 18140  
P/O #: 239322  
Project Name: Factory / Monthly  
Project Location: WHA SL



TESTING  
No. 0509  
Lot ID: 239322  
Date Received: Feb 03, 2023  
Date Reported: Feb 10, 2023  
Report Number: 239322-1

Sample Number	239324-1							Page 1 of 1
Sample Date	Feb 03, 2023 10:15 AM							
Sample Description	Group 2 Wastewater WWT-CT							
Contract ID	SL_275_2557	P&A	13A1	13-152	Site			WHA Corporation Public Limited Company
Date Analysis Commenced	Feb 04, 2023							
Condition of Sample	Container in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards							
Physical Property	Yellow, some odor, solid and turbid							
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location	
<b>Water Testing</b>								
BOD (5 days at 20 degree C)	mg/L	-	2.0	17.9	6300	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
COD	mg/L	-	25	114	6750	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
Oil & Grease *	mg/L	-	3	5	610	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
pH (at 25°C) *	-	-	-	7.9	5.5-9.0	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
Temperature *	Degree C	-	-	28.5	645	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	43	6200	Standard Methods for the Examination of water and wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok	

Guideline: Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: Nontarat Koral midwastest + 204-n-4722

Remarks:  
LOD: Limit of Detection  
LOQ: Lower than LOQ (Limit of Quantitation) (LOQ Limit of Reporting)  
Analytical method: Not used in scope of accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management: Sinluk P.  
Sinluk P.  
Supervisor  
midwastest + 204-n-4722

Approved by: Kantana A.  
Kantana A.  
Senior Manager  
midwastest + 204-n-4722



## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongkhalad Road, Nongkhalad, Nongkhalad, Saraburi Thailand 18140  
P/O #: 239322  
Project Name: Factory / Monthly  
Project Location: WHA SL



TESTING  
No. 0509  
Lot ID: 239322  
Date Received: Feb 03, 2023  
Date Reported: Feb 10, 2023  
Report Number: 239322-1

Sample Number	239322-1					Page 1 of 1	
Sample Date	Feb 03, 2023 10:10 AM						
Sample Description	Group 2 Wastewater WWT-CT						
Contract ID	SL_275_2557 P&A 13A1					Site	
Date Analysis Commenced	Feb 04, 2023					WHA Corporation Public Limited Company	
Condition of Sample	Container in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards						
Physical Property	Yellow, a bit of odor, solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	79.2	6300	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok
COD	mg/L	-	25	203	6750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok
Oil & Grease *	mg/L	-	3	5	610	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok
pH (at 25°C) *	-	-	-	8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok
Temperature *	Degree C	-	-	28.7	645	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok
Total Suspended Solids Dried at 103-105 Degree C	mg/L	-	5	67	6200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2017, part 1920.8, part 1920.9, 2017, part 1920.8, part 1920.9	Bangkok

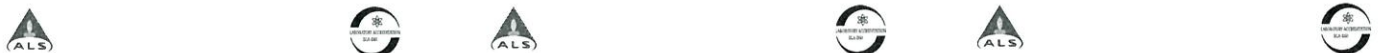
Guideline: Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: Nontarat Koral midwastest + 204-n-4722

Remarks:  
LOD: Limit of Detection  
LOQ: Lower than LOQ (Limit of Quantitation) (LOQ Limit of Reporting)  
Analytical method: Not used in scope of accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management: Sinluk P.  
Sinluk P.  
Supervisor  
midwastest + 204-n-4722

Approved by: Kantana A.  
Kantana A.  
Senior Manager  
midwastest + 204-n-4722





## Analysis / Test Report:

Client : WVA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakard Road, Nongplamch, Nongkhao, Saraburi Thailand 18140  
P/O :  
Project Name : Factory 1 Monthly  
Product Location : WVA, SD

Synopsis Number	2129								Page 6 of 10
Sampled Date	Re: 05_2023-11-03 AM								
Sample Description	Group 2 Watermeter WWCCT								
Contact ID	NAC_11256	Paid	XSD				SHR	Daily-Sent (Thailand) Co.Ltd.	
Due Analysis Commenced	Re: 05_2023								
Contents of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards								
Physical Property	(DPPA) : opaque, white, solid and turbid								
Analyte	Unit	LOD	LOQ (g/L)	Result	Certificate Specification	Method	Testing Location		
Water Testing BOD (5 days at 20 degree C)	mg/L	-	2.0	68.4	5500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 1920, pp. 4505 - 4	Bangkok		
COD	mg/L	-	25	186	1750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 1920, pp. 4505 - 4	Bangkok		
Oil & Grease **	mg/L	-	3	4	630	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 1920, pp. 4505 - 4	Bangkok		
pH (on site)	-	-	-	7.3	15.5-60	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 1920, pp. 4505 - 4	Bangkok		
Temperature **	-	-	-	30.4	645	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 1920, pp. 4505 - 4	Bangkok		
Total Suspended Solids Direct at 300 µm Sieve C	mg/L	-	5	28	5200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 1920, pp. 4505 - 4	Bangkok		

Guideline: Standard of WHA Seraburi Industrial Land, Maximum levels for wastewater discharge  
Sampling By: Chulabhat Wastewater Treatment Plant 2004-2010

[illegible]

## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nonglekairat Road, Nonglekamoh, Nongkhkhai, Saraburi Thailand 18140  
P/O :  
Project Name : Factory / Monthly  
Project Location : WHA SLL

Sample Number	21228	Fac ID: 10000000000000000000												
Sample Date	Mar 02, 2023 13:37:48													
Sample Description	Group 2 Watermeter WH-CT													
Contract ID	WH-CT_2460	Unit	49.84	Site: D-HAPPENING COMPANY LIMITED										
Date Analysis Commenced	Mar 03, 2023													
Contents of Sample	Contains one amber glass bottle and three plastic bottles, sample containers comply to treatment - preservation standards (ISO 15687)													
Physical Property	Yellow, some odour, acid and turbid													
Analysis	Unit	LOD	LOQ (LOD)	Result	Guideline / Specification	Method	Testing Location							
Water Testing														
BOD (5 days @ 20 degrees C)	mg/L	-	2.0	<2.0	5500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 5210 B	Bangkok							
						Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 5210 B								
COD	mg/L	-	28	<28	4750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 5210 B	Bangkok							
						Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 5210 B								
Oil & Grease *	mg/L	-	3	<3	530	Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 5520 B	Bangkok							
						Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 5520 B								
pH (open)	-	-	-	-	7.0-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 4500 H-10	Bangkok							
						Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 4500 H-10								
Temperature *	Degree C	-	-	28.4	545	Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 2550 A	Bangkok							
						Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 2550 A								
Total Suspended Solids Dried at 103/105°C	mg/L	-	5	11	5200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 2540 D	Bangkok							
						Standard Methods for the Examination of Water and Wastewater, APHA, 19th Edition, 2017, pp 2540 D								

**Guideline:** Standards of WYR Sarabot Industrial Land, Maximum levels for wastewater  
**Sampling By:** Thamees Jariya m060504010-0204-0-5414

**Example**

LOC	Limit of Detection
1	Lower than 100 (Limit of Quantitation) (LOQ: Limit of Reporting)

*Analysis method* \* is not included in scope of Accreditation ISO/IEC 17025.  
 The information has been generated as an unaccredited laboratory consistent with the ISO/IEC 17025

**Technical Management**

CVE - SAN

Item Setting  
Supervisor  
midwest@csd.net-4731

**Approved by:** Vale A.

Kamkorn Anet  
Senior Manager  
midwest@csd-net-4111

I hereby certify that the above information is true and correct to the best of my knowledge and belief. I understand that if I knowingly provide false or misleading information, I may be subject to disciplinary action, including termination.

ADDRESS: 60 Phatthanaburi RD, Phatthanaburi Suburb, Bangkok 10120, Thailand  
TEL: +662-890-0000 FAX: +662-890-0001  
E-MAIL: midwest@csd.net

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## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhai, Samsuri Thailand 28140  
PJID :  
Project Name : Factory 1 Monthly  
Project Location : WHA SCL

Sample Number	23209-01						
Sampled Date	Mar 06, 2022 11:10 AM						
Sample Description	Group 2 Water-sider WW-CF						
Contacted By	SIL-201-23487 Plot #4						
Date Analysis Commenced	Mar 09, 2023						
Description of Sample	Collected in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards.						
Physical Property	(A)SPPFA Yellow, some solid, undistinct						
Analyte	Unit	LOD	LOQ	Result	Cumulative % Speciation	Detection Method	Testing Location
Volatile Testing							
BOD (5 days @ 20 degree C)	mg/L	-	2.0	386	6300	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011 part 9211-B-100 200 mg/L, 2011 part 9212-B-100 500 mg/L, 2011 part 9212-D-100	BenLabs
COD	mg/L	-	25	336	6700	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011 part 9212-D-100 200 mg/L, 2011 part 9212-D-100	BenLabs
Oil & Grease "	mg/L	-	3	4	630	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011 part 9212-B-100 200 mg/L, 2011 part 9212-B-100	BenLabs
pH (in situ)				6.6	5.9-6.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011 part 9212-B-100 200 mg/L, 2011 part 9212-B-100	BenLabs
Temperature "	Degrees C	-	-	74.8	64.5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011 part 9212-B-100 200 mg/L, 2011 part 9212-B-100	BenLabs
Total Dissolved Solids Dried at 103±0.5 degree C	mg/L	-	5	55	6200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011 part 9212-B-100 200 mg/L, 2011 part 9212-B-100	BenLabs

Guideline: Stand of WMA Saraburi Industrial Land, Maximum level for wastewater Sampling By : Teerasat Puangsuwongchai 1-204-67107

Remark

LOD : Limit of Detection  
 <LOD : Lower than LOD (Limit of Quantitation) / LOD (Limit of Reporting)  
 Analytical method : HPLC not included in scope of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhay, Saraburi Thailand 18140  
P/O :  
Project Name : Factory / Monthly  
Project Location : WHA S1L

Sample Number		21232094							Page 1 of 1
Sample Date		Fri 09, 2023 11:00 AM							
Sample Description		Group 2 Intermediate WC9							
Contract ID		20L_2023_1234							
Date and/or Commenced		Fri 10, 2023							
Condition of Sample		Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards							
Physical Property		Liquids, colorless, odorless, some red and no turbid							
Analysis	Unit	LOD	LOQ (LOD)	Result	Guideline / Identification	Method	Testing Location		
Water Testing									
BOD (5 days @ 20 degree C)	mg/L		< 2.0	<2.6	500	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, 5211 B	Bangkok		
COD	mg/L		< 25	<41	5780	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, 5212 B	Bangkok		
Oil & Grease *	mg/L		< 3	<3	616	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, 5321 B	Bangkok		
pH (on site) *					7.4	3.3-6.0	Bangkok		
Temperature *	°C				28.5	141	Bangkok		
Total Suspended Solids (dried at 105°C for 1h)	mg/L		< 3	<5	2200	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, 2540 D	Bangkok		

Guideline: Standard of WYSA Sarabut Industrial Land, Maximum levels for wastewater  
Sampling By: Teerasat Puangul, vin@wye.co.th 0-204-97107

Remark:

LOD	Limit of Detection
LOQ	Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
Result	marked "x" value not included in scope of detection (LOD) or (LOQ)

The laboratory has been accredited as an inspected laboratory, complying with the ISO/IEC 17025

[illegible]

## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplairat Road, Nongplamoh, Nongkhay, Saraburi Thailand 18140  
P/O :  
Project Name : Factory I Monthly  
Project Location : WHA S2L

Sample Number	20230104										
Sample Date	Mar 06, 2023 10:05 AM										
Sample Description	Group 2 Watermain WVCCT										
Contract ID	50_2023_0350	Plan	140	Site: 67th (Glenora) Co Ltd							
Data Analysis Commenced	Mar 10, 2023										
Condition of Sample (AQUASPEC)	Combined in one amber bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards										
Physical Property	Yellow, some solid, solid and turbid										
Analysis	Unit	LOD	LOQ (LOD)	Result	Guideline / Classification	Method	Testing Location				
Water Testing											
BOD (5 days @ 20 degree C)	mg/L		2.0	4.7	6500	Standard Methods for the Examination of Water and Wastewater: APHA, 1995 & NSF, 2017, part 5210 & 5211	Bangkok				
COO	mg/L		25	39	5700	Standard Methods for the Examination of Water and Wastewater: APHA, 1995 & NSF, 2017, part 5220 & 5221	Bangkok				
Oil & Grease	mg/L		3	43	630	Standard Methods for the Examination of Water and Wastewater: APHA, 1995 & NSF, 2017, part 5220 & 5221	Bangkok				
pH (on site)				7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater: APHA, 1995 & NSF, 2017, part 6500-10 (10)	Bangkok				
Temperature	Degree C			29.7	6-45	Standard Methods for the Examination of Water and Wastewater: APHA, 1995 & NSF, 2017, part 2530 & 2531	Bangkok				
Total Suspended Solids (Set at 1000 mg/L degree C)	mg/L		5	17	5200	Standard Methods for the Examination of Water and Wastewater: APHA, 1995 & NSF, 2017, part 2540 & 2541	Bangkok				

Guideline : Standard of WNA Sarabul Industrial Land, Maximum level for wastewater  
Sampling By : Teerawat Puangrak wcd@puangrak.com-094-47307

[illegible]

## Analysis / Test Report

Client : WSA Utilities and Power Public Company Limited  
111 Moo 7, Nonglatri Road, Nonglarnoh, Nongkhai, Saraburi Thailand 3814  
P/O :  
Project Name : Factory Monthly  
Project Location : WSA SO.

Sample Number	252359-3						
Sampled Date	Mar 02, 2013 3:10 PM						
Sample Description	Group 2 Wastewater WWCCT						
Contract ID	SL-005-2154						
Date Analysis Commenced	Mar 02, 2013 7:76						
Location of Sample	JPMorgan Chase Bank						
Physical Property	Collected in one glass jar, added and sealed						
Analysis Method	Unit	LOD	LOQ	Results	Guideline / Specification	Method	Tested Location
Water Testing							
BOD (5 days @ 20 degree C)	mg/L		2.0	17.6	0.00	Standard Methods for the Examination of Water and Wastewater, APHA, 19th edn & 1995, 2005 edn, 2011 edn (2012) (5 days @ 20°C)	Single
COD	mg/L		25	117	5790	Standard Methods for the Examination of Water and Wastewater, APHA, 19th edn & 1995, 2005 edn, 2011 edn (2012)	Single
Oil & Grease *	mg/L		3	4	810	Standard Methods for the Examination of Water and Wastewater, APHA, 19th edn & 1995, 2005 edn, 2011 edn (2012)	Single
pH (at 25°C)				6.7	6.5-8.5	Standard Methods for the Examination of Water and Wastewater, APHA, 19th edn & 1995, 2005 edn, 2011 edn (2012)	Single
Temperature *	Degree C			20.3	5-15	Standard Methods for the Examination of Water and Wastewater, APHA, 19th edn & 1995, 2005 edn, 2011 edn (2012)	Single
Total Suspended Solids Dried at 103-105 degree C	mg/L		5	26	5200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th edn & 1995, 2005 edn, 2011 edn (2012)	Single

**Guideline:** Standard of 1000 Sanban Industrial Land, Maximum levels for wastewater  
**Sampling By:** Thiruvai Janya m000uavR 1-204-x-5454

**Remark:**

- LOD: Limit of Detection;
- \*: Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

**Available:** marked \* where not included in scope of Accreditation: ISO/IEC 17025.  
 The laboratory has been accredited as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakred Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O :  
Project Name : Factory 1 Monthly  
Contract Location : WHA 521

Samples Number	2322-01						
Sampled Date	Mar 02, 2023 @ 36 AM						
Sample Description	Group 2 Waterborne VHW-C						
Contract ID	35_206_2354 Part 1						
Location	Point 1 Site Guardian Industries Corp Ltd.						
Date Analyzed	Mar 02, 2023						
Container of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards						
Physical Property	Yellow, some odor, solid and no turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Vinyl Testing							
Water Dissolve (at 20 degree C)	mg/L	-	2.0	5.1	5390	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> Ed., 2017, part 9103-B, page 9103-B-1	Berglund
COD	mg/L	-	25	80	6730	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> Ed., 2017, part 9103-D, page 9103-D-1	Berglund
Dil & Grease %	mg/L	-	3	<3	510	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> Ed., 2017, part 9103-F, page 9103-F-1	Berglund
pH (on site)	-	-	-	7.2	5.5-9.0	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> Ed., 2017, part 9103-H, page 9103-H-1	Berglund
Temperature °	Degree C	-	-	22.8	9-43	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> Ed., 2017, part 9103-V (B), page 9103-V (B)-1	Berglund
Total Suspended Solids (dried at 105-155 degrees C)	mg/L	-	3	9	8200	Standard Methods for the Examination of water and Wastewater, APHA, AWWA & WEF, 24 <sup>th</sup> Ed., 2017, part 2550-B, page 2550-B-1	Berglund

**Guideline:** Standard of WHA Saraburi Industrial Land, Maximum level for wastewater  
Sampling By: Thanee Jariwongkarn 5-204-5-5424

**Remark:**

LDD: Limit of Detection  
LQL: Lower than LOD (Limit of Quantitation) / LOR: Limit of Reporting  
Analysis: marked "N" is not included in scope of Accreditation ISO/IEC 17025.  
The laboratory has been awarded an accreditation for analysis combination with the ISO/IEC 17025.

[illegible]

## Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakradi Road, Nongplemoh, Nongkhae, Saraburi Thailand 1814  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WHA S2

Sample Number	232026-14							
Sample Date	Mar 02, 2023 10:02 AM							
Sample Description	Point 2 Watermeter WWHCCT							
Contract ID	SLS_207-2354 Plot : 2 Site :							
Location	Point 2 Guardian Industries Corp Ltd.							
Date Analysis Commenced	Point 2							
Description of Sample	Container is one amber glass bottle and three plastic bottles. sample containers comply to preservation + preservation standards (APAC/CPA)							
Physical Property	Yellow, some white, solid and liquid							
Analyte	Unit	LOD	LOQ	(LOB)	Result	Guideline / Specification	Method	Testing Lab
Water Testing								
BOD (5 days @ 20 degree C)	mg/L	-	2.0	14.8	\$900	Standard Method for the Examination of water and wastewater - APHA, AWWA & WEF, 1998 APHA 521, 2017 5210 B, 2017 5210 C, 2017 5210 D, 2017 5210 E		Nengap
COD	mg/L	-	25	81	6750	Standard Method for the Examination of water and wastewater - APHA, AWWA & WEF, 2018 vol. 19, part 9102 D		Nengap
Oil & Grease *	mg/L	-	3	4	630	Standard Method for the Examination of water and wastewater - APHA, AWWA & WEF, 2018 vol. 19, part 9102 D		Nengap
pH (on site) *					7	Standard Method for the Examination of water and wastewater - APHA, AWWA & WEF, 2018 vol. 19, part 9102 B		Nengap
Temperature *	Degree C	-			32.3	Standard Method for the Examination of water and wastewater - APHA, AWWA & WEF, 2018 vol. 19, part 9102 B		Nengap
Total Suspended Solids (not at 10-145 degrees C)	mg/L	-	5	10	\$200	Standard Method for the Examination of water and wastewater - APHA, AWWA & WEF, 2018 vol. 19, part 2550 B		Nengap

**Guideline:** Standard of WHO Sanitary Industrial Land, Maximum level for wastewater  
**Sampling By:** Thamee Janpa wcd@issasr@gmail.com-45414

**Remark:**

- LOD Limit of Detection
- LA Lower than LOQ (Limit of Quantitation) LOR (Limit of Reporting)
- Analysis method: 1) Acid not included in scope of Accreditation ISO/IEC 17025.
- 2) The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

## Analysis / Test Report

Client : WHA Lobbies and Power Public Company Limited  
111 Moo 7, Nongpakradi Road, Nongplamot, Nongkhai, Saraburi Thailand 282  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WHA S2.

Sample Number	2213131.1						
Sampled Date	Mar 22, 2021 9:45 AM						
Sample Description	Grout 2 Intermediate W9+CT						
Location	36_006_2139	Plot 1	2	Site	Guardian Industries Corp. Ltd.		
Container	Plastic						
Data Analyzed	Compressed in one amber glass bottle and three plastic bottles, samples containers comply to pretreatment - preservation protocol (NMA/CDP)						
Condition of Sample	(NMA/CDP)						
Physical Property	Value, some units, full of aisk and some water						
Analyte	Unit	LOD	Result	Guideline / Specification	Method	Test Location	
Water Sampling							
BOC (5 days at 22 degree C)	mg/L	-	2.0	6300	Standard Method for the Determination of Water and Wastewater: APHA, 1995 or EPA 204.4, (201) per 1515.9, per 4100 - C - C	Range	
COD	mg/L	-	25	39	6750	Standard Method for the Determination of Water and Wastewater: APHA, 1995 or EPA 204.4, (201) per 5220.0	Range
Oil & Grease *	mg/L	-	3	<3	610	Standard Method for the Determination of Water and Wastewater: APHA, 1995 or EPA 204.4, (201) per 5100.0	Range
pH (in atm.)	mg/L	-	-	7.8	5154-0	Standard Method for the Determination of Water and Wastewater: APHA, 1995 or EPA 204.4, (201) per 4100 - C - C	Range
*Temperature *	mg/L	-	-	30.5	945	Standard Method for the Determination of Water and Wastewater: APHA, 1995 or EPA 204.4, (201) per 2200.0	Range
Total Suspended Solids, Dried at 103-105 degree C	mg/L	-	5	6	5200	Standard Method for the Determination of Water and Wastewater: APHA, 1995 or EPA 204.4, (201) per 5100.0	Range

**Guideline:** Standard of WSA Saraburi Industrial Land, Maximum levels for wastewater  
**Sampling By:** Thana Janya WISUNAWAT 1-204-S-5414

**Remark:**

- LOD: Limit of Detection.
- \*: Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
- Analyst(s) marked \* screen not included in scope of Accreditation (ISO/IEC 17025).

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

[illegible]





## Analysis / Test Report

Client : WWSA Utilities and Power Public Company Limited				Lot ID: 2323188	
111 Hoo T, Nongpladkiet Road, Nongpladkiet, Nongphrae, Samnui Thabthad 2340				Date Received : Mar 09, 2023	
Project Name : Factory 1 Monthly				Date Reported : Mar 30, 2023	
Project Location : WWSA SD				Report Number : 2313-4-23	
Page 1 of 1					
<b>Sample Number</b> : 2323188-1					
<b>Sampled Date</b> : Mar 09, 2023 9:40 AM					
<b>Sample Description</b> : Group 2 Wastewater WWCT					
<b>Contract ID</b> : SIL_272_257 Plot : B6 Site : GWF #7 NKC Cell, LAI					
<b>Date Analysis Commenced</b> : Mar 11, 2023					
<b>Condition of Sample</b> : Combined in the amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA/USEPA)					
<b>Physical Property</b> : Yellow, viscous, no solid and turbid					
<b>Analyte</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b> (LOD x 3)	<b>Result</b>	<b>Guideline / Reference</b>
<b>Water Temperature</b>					
Conductivity at 25 Degree C	microsiemen	-	0.5	1920	Not Standard
				Based on Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, 259.4-261, 259.1-259.6	
<b>Guideline</b> : Standard of WWSA Sanatori Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.					
<b>Sampling By</b> : _____					
<b>Remark</b> : _____					
*LOD : Limit of Detection *LOQ : Limit of Quantitation *LOD Limit = (LOD Limit of Quantitation) x (LOQ Limit of Quantitation)					

[illegible]

## Analysis / Test Report

[illegible][illegible]

## Analysis / Test Report

Client: Wipro MilBios and Power Company Limited					No DODs			
111 Ho-P, Nongkhalade-Road, Nongkhal, Nongkhal, Samnath Thiland 10140					Lot ID: 2323113			
Project Name: Wipro's Monthly					Date Received: Mar 02, 2023			
Project Location: Wipro's Monthly					Report Number: Mar 02, 2023			
					Date Reported: Mar 02/2023			
Page 1 of 1								
Sample Number	3212314-14							
Serialized Date	Mar 02, 2023							
Sample Description	Group 2 Waterborne WHCT							
Contract ID	SL1069_2354							
Static Analysis Commanded	Mar 02, 2023							
Contract of Sample	Collected on one random glass bottle and three plastic bottles, sample contains crystals on precipitation - preservation instructions							
Physical Property	N/A (N/A)							
Analysis	Yellow, normal color, solid and solidified							
Parameter	Value	Unit	LOD	LOQ	Result	Guideline / Limitation/Range		
Water Testing								
800 (5 days at 20 °C) (mg/L)	mg/L	-	2.0	8.4	£500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 ed., 2017, pp 1213 & 8, 4000 - 12.0		
COD	mg/L	-	25	63	£750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 ed., 2017, pp 1220 & 8, 4000 - 12.0		
Oil & Grease *	mg/L	-	3	4	£30	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 ed., 2017, pp 1520 & 8, 4000 - 12.0		
pH (mV/cm)	mg/L	-	-	7.8	5.9-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 ed., 2017, pp 1213 & 8, 4000 - 12.0		
Temperature *	Degree C	-	-	29.3	143	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 ed., 2017, pp 1203 & 8, 4000 - 12.0		
Total Suspended Solids Dried at 102-105 degree C	mg/L	-	5	18	£200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24 ed., 2017, pp 2541 & 8, 4000 - 12.0		

Sample For: Thomas James midwest@f - 20w-4134

1. **UPD** - Link of document  
Link: [Link](#) (URL Link of Operator) - (URL Link of Reporting)  
evaluation - manual "data not included in scope of Application" 1/2021.  
The Memory has been included per administrative compliance with the previous 1/2021.

Technical Manager *CV - S -* Approved by *Yash Ahi*

Hein Samy  
Supervisor  
midwest@f - 20w-4134

Janetina Ahi  
Senior Manager  
midwest@f - 20w-4134

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TESTING

Client : WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongpladkrai Road, Nongplamoh, Nongkhayae, Saraburi Thailand 25140  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WHA S11

Rev 0009  
Lot ID: 2323152  
Date Received : Mar 06, 2023  
Date Reported : Mar 14, 2023  
Report Number : 2301075-1

Sample Number	212131-13						
Sample Date	Mar 08, 2023 1:12 PM						
Sample Description	Group 2 Wastewater WWCT						
Container ID	10-201-2156	Plot	93C	Site: Hsian (Hsian) Co., Ltd.			
Data Analysis Commenced	Group 2						
Condition of Sample	Confined in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards						
Physical Property	Yellow, a bit of odour, solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days @ 20 degree C)	mg/L		1.0	75.7	5.00	Standard Methods for the Examination of Water and Wastewater, APHA, 23rd ed., part 9200, 9201, part 9205, 9210, part 9210.5, 9211, part 9211.5, 9212, part 9212.5	Bangkok
COD	mg/L		25	191	570	Standard Methods for the Examination of Water and Wastewater, APHA, 23rd ed., part 9200, 9201, part 9205, 9210, part 9210.5, 9211, part 9211.5, 9212, part 9212.5	Bangkok
Oil & Grease *	mg/L		3	5	130	Standard Methods for the Examination of Water and Wastewater, APHA, 23rd ed., part 9200, 9201, part 9205, 9210, part 9210.5, 9211, part 9211.5, 9212, part 9212.5	Bangkok
pH (on site)				7.8	3.0-6.0	Standard Methods for the Examination of Water and Wastewater, APHA, 23rd ed., part 9200, 9201, part 9205, 9210, part 9210.5, 9211, part 9211.5, 9212, part 9212.5	Bangkok
Temperature *	degree C			31.3	0-45	Standard Methods for the Examination of Water and Wastewater, APHA, 23rd ed., part 9200, 9201, part 9205, 9210, part 9210.5, 9211, part 9211.5, 9212, part 9212.5	Bangkok
Total Suspended Solids Dried at 105-150 degree C	mg/L		5	42	5200	Standard Methods for the Examination of Water and Wastewater, APHA, 23rd ed., part 9200, 9201, part 9205, 9210, part 9210.5, 9211, part 9211.5, 9212, part 9212.5	Bangkok

**Guideline:** Standard of WPH Sarathi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Chulidat Wain mndousas W-204-V-0320  
**Remarks:**  
 \* LOD = Limit of Detection  
 \* LQR = Lower Than (LOQ/Sum of Quantitation) / (LOQ/ Limit of Reporting)  
 \* *indicated in mark* \* refers not included in scope of Accreditation (ISO/IEC 17025).  
 \* The laboratory has been accredited as an accepted laboratory providing in the ISO/IEC 17025.

[illegible]

## TESTING

Client: WNA Utilities and Power Public Company Limited  
 111 Moo 7, Nongtrakred Road, Nongplamoh, Nongkhai, Saraburi Thailand 18140  
 P/O :  
 Project Name : Factory 1 Monthly  
 Project Location : WNA S3

Sample Number	[2021-07-1]					Page 1 of 1	
Sample Date	Mar 02, 2023 10:08 AM						
Sample Description	Group 2 Wastewater WWCCT						
Container ID	05_2023-2554	Plat	36	Site: Ready Care Co., Ltd.			
Date Analysis Commenced	Mar 01, 2023						
Container of Sample	Combined in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA-55009)						
Physical Property	Colorless, some odor, no solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Limitation	Method	Testing Location
Water Testing							
BOD (5 days @ 20 degree C)	mg/L	-	2.0	< 2.0	\$500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1920-1929, 4500-11	Bingqing
COD	mg/L	-	25	< 25	\$750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1920-1929, 4500-11	Bingqing
Oil & Grease *	mg/L	-	3	< 3	\$10	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1920-1929, 4500-11	Bingqing
pH (at 25 °C)	-	-	-	7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1920-1929, 4500-11	Bingqing
Temperature *	Degree C	-	-	29.2	5-45	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1920-1929, 4500-11	Bingqing
Total Suspended Solids Direct at 105-105 degree C	mg/L	-	5	< 5	\$200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, part 1920-1929, 4500-11	Bingqing

**Guideline:** Standard of WWA Sarabun Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling by:** Prapit Wannachoochai, wduuassail 1-204-n 7:05  
**Remark:**  
 ISO Limit of Detection  
 <10 Lower than LOQ (Limit of Quantitation) / LOE (Limit of Reporting)  
 Analysis marked \* is/are not included in scope of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Summon C Approved by Yank Adu

Senior Chairman  
Sumcon Series (2)  
Midweek 12:00-14:7

Senior Analyst  
Senior Manager  
Midweek 12:00-14:11

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## TESTING

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplaktradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 38140  
P/O :  
Project Name : Factory 1 Monthly  
Project Location: WHA S21

Lot ID: 2323139  
Date Received : Mar 06, 2023  
Date Reported : Mar 14, 2023  
Report Number : 2019022-1

Sample Number							
Sample Description							
Sample Date							
Group / Watermark / WPCVT							
Lot No./Date / Plant #							
Data Analysis Commenced On							
Condition of Sample							
Physical Property							
Analysis Unit							
Result							
Guarantee / Specification							
Method							
Testing Location							
Waxer Testing							
RSD (1 test @ 20 degree C)	m/g%	< 2.0	12.7	9.80	Standard Method for the Determination of Waxer and Watermark (APMA, section 6 & 10) 23rd ed., 2015 (ref 523) or 4000 (ref 4)	Bangkok	
COD	m/g%	< 25	146	5750	Standard Method for the Determination of Total COD (APMA, section 6 & 10) 23rd ed., 2015 (ref 523) or 4000 (ref 4)	Bangkok	
Oil & Grease *	m/g%	< 3	< 3	510	Standard Method for the Determination of Total Oil and Grease (APMA, section 6 & 10) 23rd ed., 2015 (ref 523) or 4000 (ref 4)	Bangkok	
pH (in water)		<	7.8	5.5-6.0	Standard Method for the Determination of pH (APMA, section 6 & 10) 23rd ed., 2015 (ref 523) or 4000 (ref 4)	Bangkok	
Temperature *	Degree C	<	36.1	245	Standard Method for the Determination of Temperature (APMA, section 6 & 10) 23rd ed., 2015 (ref 523) or 4000 (ref 4)	Bangkok	
Total Suspended Solids Dried at 105-105 degree C	m/g%	< 5	36	1200	Standard Method for the Determination of TSS (APMA, section 6 & 10) 23rd ed., 2015 (ref 523) or 4000 (ref 4)	Bangkok	

Guideline: Standard of WHO Sanban Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: Teemont Pungkuw [teemont.pungkuw@ecampus.ut.ac.id](mailto:teemont.pungkuw@ecampus.ut.ac.id) +204-7107

Remark:

LOQ: Limit of Detection  
LOQ = Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)  
Analysis marked \* where not included in scope of accreditation: ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]





Lot ID: 2323106  
Date Received : Mar 02, 2023  
Date Reported : Mar 09, 2023  
Report Number : 2580936-2

Sample Number	2323061						
Sample Date	Mar 02, 2013 10:35 AM						
Sample Description	Group 2: 250 ml bottles (100°C)						
Contract ID	SL_002-2013-061 10:11						
Contract Address	Site: SC5 Roofing Co., Ltd						
2D Analysis Commented	Mar 02, 2013						
Analysis Method	Commented: 100 ml empty glass bottles and 10 ml plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/ASTM)						
Physical Property	Volume: 40 ml of water, sealed and stored						
Analyte	Unit	LOD	LOQ (LOEL)	Result	Qualitative / Description	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	+	20	39.6	500	Standard Methods for the Examination of Water and Wastewater, 19th ed. (2005), Part 2013-061, 2013-02-12	Bangladesh
COD	mg/L	+	25	187	6780	Standard Methods for the Examination of Water and Wastewater, 19th ed. (2005), Part 2013-061, 2013-02-12	Bangladesh
Oil & Grease	mg/L	+	3	6	630	Standard Methods for the Examination of Water and Wastewater, 19th ed. (2005), Part 2013-061, 2013-02-12	Bangladesh
pH (in air)	+	+	3.7	1.5-6.0		Standard Methods for the Examination of Water and Wastewater, 19th ed. (2005), Part 2013-061, 2013-02-12	Bangladesh
Temperature	Degree C	+	39.6	6	645	Standard Methods for the Examination of Water and Wastewater, 19th ed. (2005), Part 2013-061, 2013-02-12	Bangladesh
Total Suspended Solids Determined at 103-05 degree C	mg/L	+	5	20	6200	Standard Methods for the Examination of Water and Wastewater, 19th ed. (2005), Part 2013-061, 2013-02-12	Bangladesh

**Guideline:** Standard of WWA Sarawak Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Pejabat Wennechoohai in Gurusu 1-204-4-7109

**Remarks:**

- LOD (Limit of Detection)
- <LOQ (Lower than LOQ (Limit of Quantitation) / <LOR (Limit of Reporting)
- results 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.

[illegible]

Lot ID: 2323149  
Date Received : Mar 02, 2012  
Date Reported : Mar 09, 2012  
Report Number : 2581565-1

Sample Number	2322491						
Sampling Date	Mar 2023 1:40 PM						
Sample Description	Group 2: Wetland - HSP-CT						
Core ID	SIL167.516	Flt	66	Site	Sakowik Plastics (Thermax) Co., Ltd.		
Date Analyzed Commanded	Mar 2023						
Analysis Method	Continued on one side and three bottles, bottles sample containers comply to pretreatment - presentation of (ANALYSIS)						
Physical Property	Value, unitless, same used and not used						
Analysis	Unit	LOD	LOQ	Results	Outlines / Specification	Method	Testing Location
Water Testing							
Boiling Test	at 20 (in degree C)	mg/L	1.0	<1.0	\$300	Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1	PerkinElmer
COD	mg/L	3	<25	5750	Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1	Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1	PerkinElmer
Oil & Grease *				3	3	610	Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1
pH (in 100 mL)				8.7	8.3-9.0		Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1
Temperature *	Degree C			38.3	5-45		Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1
Total Suspended Solids Dried at 103-105 Degree C	mg/L		5	6	6200	Standard Method for the Examination of Water and Wastewater, 23rd ed., 2017, pp 1511-8; part 1500 - C-1	PerkinElmer

Guideline: Standard of WWA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By : Teerawat Puengku m000uavall -2016-0-7107

Remark

LOD = Limit of Detection  
\* = Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)  
Analytical method is not included in scope of Accreditation ISO/IEC 17025.  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

Lot ID: 2323153  
Date Received : Mar 02, 2003  
Date Reported : Mar 09, 2003  
Report Number : 2581077-5

Sample Number	22123513						
Sample Date	02/23/2023 1:30 PM						
Sample Description	Group 2 Waterway WPT-CF						
Contract ID	SL_068_2357 Pkt 01						
Location	Point 2 Site: Sribahau (Thames) Co., Ltd.						
Collection Date	02/23/2023						
Condition of Sample	Container is the entire glass bottle and three plastic bottles, sample container closed, no pretreatment - preservation standards						
Physical Property	Yellows, a bit of odor, salt and turbid						
Parameter	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Tested Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.8	76.3	< LOD	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2012, vol. 19, pp 5121-9	Sample
COD	mg/L	-	13	137	8780	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2012, vol. 19, pp 5121-9	Sample
Oil & Grease *	mg/L	-	3	5	630	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2012, vol. 19, pp 5121-9	Sample
pH (at site)	-	-	-	7.3	5.4-9	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2012, vol. 19, pp 5121-9	Sample
Temperature *	Degree C	-	-	30.4	5-45	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2012, vol. 19, pp 5121-9	Sample
Total Suspended Solids Dried at 103°C	mg/L	-	5	22	5200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed. 2012, vol. 19, pp 5121-9	Sample

**Guideline:** Standard of WWA Sanabul Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Terezaat Pungruk, MSc/Quater 1 > 204-> 7107

**Remarks:**

LOD	Limit of Detection
LOQ	Lower than LOQ Limit of Quantitation / LOE Limit of Reporting

Technical Management Ch. S. Approved by Yank. Ak.  
Naim Seneo  
Supervisor  
naim@afglobal.com  
Farouk Ak.  
Senior Manager  
farouk@afglobal.com

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## TESTING

Lot ID: 2323121  
Date Received : Mar 08, 2023  
Date Reported : Mar 14, 2023  
Report Number : 2580972-2

Sample Details	22/03/2013					Page 10 of 10
Sampling Date	Mar. 2013 22:10:00 AM					
Collection ID	Group 2 Waterline WACCT 01_002_0314					
Depth	Point 74					
Data Analysis Commenced	Mar. 2013					Site Sam MGR, Technicians C, J, M, L
Description of Sample	LAPV02000					
Physical Property	Contains one or two amber glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservation standards					
Chemical Property	Volatile, some odour, solid, and not biotic					
Parameter	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
Water Temp (500 L over 20 degrees C)	°C	0.00	21.3	£500	Standard Methods for the Examination of Water and Wastewater, APHA, APSS & WEF, 1995 ed., Part 1915 (2013) 1915.01 4500 - C D	Bangkok
COD	mg/L	25	77	£750	Standard Methods for the Examination of Water and Wastewater, APHA, APSS & WEF, 1995 ed., Part 1915 (2013) 1915.01 4500 - C D	Bangkok
Oil & Grease +	mg/L	3	<13	£330	Standard Methods for the Examination of Water and Wastewater, APHA, APSS & WEF, 1995 ed., Part 1915 (2013) 1915.01 4500 - C D	Bangkok
pH (on site)		7.0	15.0-6		Standard Methods for the Examination of Water and Wastewater, APHA, APSS & WEF, 1995 ed., Part 1915 (2013) 1915.01 4500 - C D	Bangkok
Temperature	°C	28.8	945		Standard Methods for the Examination of Water and Wastewater, APHA, APSS & WEF, 1995 ed., Part 1915 (2013) 1915.01 4500 - C D	Bangkok
Total Suspended Solids Dried at 101-105 degrees C		5	16	£200	Standard Methods for the Examination of Water and Wastewater, APHA, APSS & WEF, 1995 ed., Part 1915 (2013) 1915.01 4500 - C D	Bangkok

Guideline, Standard of WHO Standard Industrial Land, Maximum loads for wastewater discharging to central wastewater treatment plants

Sampling By: Terasat Puangku, Indonesia - 204-7107

Remark:

LOD Limit of Detection  
 LQ Lower than LOQ (Limit of Quantitation) / LQA (Limit of Reporting)  
 Analysis marked \* values not included in steps of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management CV - S Approved by Kate Aul  
Narin Seung Supervisor  
mdundard@2004-4715  
Karlson Aul Senior Manager  
mdundard@2004-4111

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TESTING  
11-0000

Lot ID: 2323124  
Date Received : Mar 08, 2023  
Date Reported : Mar 14, 2023  
Report Number : 2580982-1

Analyte	Unit	LOD [LOG]	Results	Guideline / Specification	Method	Testing Location
Water Testing						Bergham
BOD (5 days @ 20 degree C)	mgl/L	< 2	19.8	6300	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & NSF, 1995 ed., 1970 ed., 1995 ed., 1998 ed., 2005 ed.	Bergham
COD	mgl/L	< 25	119	6780	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & NSF, 1995 ed., 1970 ed., 1995 ed., 1998 ed., 2005 ed.	Bergham
Oil & Grease *	mgl/L	< 3	4	910	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & NSF, 1995 ed., 1970 ed., 1995 ed., 1998 ed., 2005 ed.	Bergham
pH (on site) *			-	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & NSF, 1995 ed., 1970 ed., 1995 ed., 1998 ed., 2005 ed.	Bergham
Temperature *	Degree C	<	22.5	245	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & NSF, 1995 ed., 1970 ed., 1995 ed., 1998 ed., 2005 ed.	Bergham
Total Suspended Solids, Dry at 103-105 Degree C	mgl/L	<	5	< 6200	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & NSF, 1995 ed., 1970 ed., 1995 ed., 1998 ed., 2005 ed.	Bergham

**Guideline:** Standard of WMA Sarawak Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Terasan Punguk wu0204w01704-07107

CCD Limit of Detection  
 \* (lower than) (CC Limit of Detection) (or) (Limit of Reporting)  
 (available) (market) \* (are not included in scope of ACRIS SCORE 1/2021)  
 The information is not intended to be used as a basis for any legal or other action.

[illegible]

## TESTING

Lot ID: 2323129  
Date Received: Mar 02, 2022  
Date Reported: Mar 09, 2022  
Report Number: 2580995-1

Sample Number	33129126						
Sample Date	Mar 02, 2023 11:50 AM						
Sample Description	Group 2 Waterway WHCT						
Sample Location	55-20-2156						
Date Analyzed/Commenced	Mar 02, 2023						
Container of Sample (AQUASPEC)	Combined in one amber glass and three plastic bottles, sample containers comply to pretreatment + preservation standards						
Physical Property	Water, some solids, solid and turbid						
Analyte	UNIT	LOD	LOQ	Result	Guideline / Limitation	Method	Testing Location
Water Testing							
BOD (5 days @ 20 degree C)	mg/L		2.0	30.8	6300	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 2012, 2017, 2019 5215-B	Bengaluru
COD			35	151	6750	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 2012, 2017, 2019 5220-D	Bengaluru
Oil & Grease *			3	4	530	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 2012, 2017, 2019 5520-B	Bengaluru
pH (on site) *				7.8	5.0-9.0	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 2012, 2017, 2019 4500 -H (3)	Bengaluru
Temperature *	Degree C			29.2	5-60	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 2012, 2017, 2019 2550-B	Bengaluru
Total Suspended Solids Strain at 100-200 degree C	mg/L		5	35	5200	Standard Method for the Examination of Water and Wastewater, APHA, AWWA & WEF, 2012, 2017, 2019 2540-D	Bengaluru

Sampling By: Thomas Jerry WILSON 901-204-5454

Technical Management *Chris S.* Approved by *Karl A.*  
 Senior Scheduling Supervisor *Karl A.*  
 reviewed on 2006-07-13 reviewed on 2006-07-11

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**Technical Management**  
 Senior Scheduling Supervisor

Signature: *Chris S.*  
 Printed Name: **Chris S.**





## TESTING



## TESTING



LABORATORY ACCREDITED  
GLA 046

## TESTING

Technical Manager: Chris S. Approved by: Yak A.

Station Sounding Supervisor: William W. - 226-4753 Rank: Rank 1  
 Senior Manager: William W. - 226-4113

Approved for Release by NSA on 09-08-2013 pursuant to E.O. 13526

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## Analysis / Test Report

Lot ID: 2334898  
Date Received : Apr 03, 2023  
Date Reported : Apr 11, 2023  
Report Number : 360700962

Sample Number	234899-1			Page 1 of 1
Sampled Date	Apr 03, 2023 1:40 PM			
Sample Description	Group 2 Wastewater WWT-CT			
Contract ID	SI_051_2554	Plot	36	Site
Date Analysis Commenced	Apr 05, 2023			Ready Clean Co.,LTD.
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards			

Physical Property		OPIHA, OZGPA *Values same unless noted and surbed			
Analyte	Unit	LOD	LOQ (LOD*3)	Riskshift	Guideline / Specification
Wastewater Testing					
Aerobic Sulfuride as H <sub>2</sub> S	mg/L	0.01	0.05	0.05	\$30
					Based on Standard Methods for the Examination of Water and Wastewater, OPIHA, version 4, 1997, 2304-45, 2317, 2401, 2403, 2404
Guideline: Standard of WHO Sanction Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.					
Sampling Rate: Frequency Parameters					
Frequency	LOD Limit of Detection *LOQ Limit of Quantitation (LOD*3) LOQ Limit of Reporting				

Approved by: Nant Sornb  
Nantaworn Sornbom  
Specialist 1

ADDRESS: 12A Phatthanaburi Rd., Phatthanaburi Rd., Thai Samut Prakan, Thailand. PHONE: +66 2 760 3200 FAX: +66 2 760 3191  
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## Analysis / Test Report

Lot ID: 2334853  
Date Received : Apr 03, 2023  
Date Reported : Apr 10, 2023  
Report Number : 7606855.1

Sample Number	234853-1		
Sampled Date	Apr 03, 2023 11:05 AM		
Sample Description	Group 2 Wastewater WW-CT		
Contract ID	551_047_2156	Plot 138	Site: Rukm Mediation (Thailand) Co., Ltd.
Date Rec'd in Comments	Apr 04, 2023		

Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers capped & pre-treated – preservative standards (100% water, 100% acid, 100% base, 100% salt, 100% oil, and 100% solid)						
Physical Property	Value	Unit	LOD	LOQ	Result	Guideline / Acceptance	Method
<b>Water Testing</b>							
BOD (1 day at 20 degrees C)	mg/L	-	2.0	31.9	5500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636,	Single
COD	mg/L	-	25	133	8750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636,	Single
Oil & Grease "	mg/L	-	3	7	610	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636,	Single
pH (at 20°C)	-	-	-	8.1	3.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118,	

**Sampling:** Standard of WHO for Surface Water (LTD, Maximum levels for wastewater discharging to central wastewater treatment plant, Guideline by "Tosawat Puangrak wudhuwan" 2014-7-07)

Technical Management Siriluk P Sub-4. Questions Approved by Kanokum Arak Kanokum Arak

[illegible]

## Analysis / Test Report

Lot ID: 2334828  
Date Received Apr 03, 2023  
Date Reported Apr 10, 2023  
Report Number 7654775.1

Sample Number	2374628-1			Page 1 of 1
Sampled Date	Apr 03, 2023 11:05 AM			
Sample Description	Group 2 Wastewater WW-CT			
Contract ID	SL015-2156	Post	61.62	Site: SDC Corp (Thailand) Co., Ltd.
Date/Location/Commenced	Apr. 04, 2013			

Condition of Sample	Contained in three plastic bottles and two amber glass bottles, sample containers comply with pretreatment – preservative standards (USEPA 1631, 16310, 16311, 16312, 16313, 16314, 16315, 16316, 16317, 16318, 16319, 16320, 16321, 16322, 16323, 16324, 16325, 16326, 16327, 16328, 16329, 16330, 16331, 16332, 16333, 16334, 16335, 16336, 16337, 16338, 16339, 16340, 16341, 16342, 16343, 16344, 16345, 16346, 16347, 16348, 16349, 16350, 16351, 16352, 16353, 16354, 16355, 16356, 16357, 16358, 16359, 16360, 16361, 16362, 16363, 16364, 16365, 16366, 16367, 16368, 16369, 16370, 16371, 16372, 16373, 16374, 16375, 16376, 16377, 16378, 16379, 16380, 16381, 16382, 16383, 16384, 16385, 16386, 16387, 16388, 16389, 16390, 16391, 16392, 16393, 16394, 16395, 16396, 16397, 16398, 16399, 16400, 16401, 16402, 16403, 16404, 16405, 16406, 16407, 16408, 16409, 16410, 16411, 16412, 16413, 16414, 16415, 16416, 16417, 16418, 16419, 16420, 16421, 16422, 16423, 16424, 16425, 16426, 16427, 16428, 16429, 16430, 16431, 16432, 16433, 16434, 16435, 16436, 16437, 16438, 16439, 16440, 16441, 16442, 16443, 16444, 16445, 16446, 16447, 16448, 16449, 16450, 16451, 16452, 16453, 16454, 16455, 16456, 16457, 16458, 16459, 16460, 16461, 16462, 16463, 16464, 16465, 16466, 16467, 16468, 16469, 16470, 16471, 16472, 16473, 16474, 16475, 16476, 16477, 16478, 16479, 16480, 16481, 16482, 16483, 16484, 16485, 16486, 16487, 16488, 16489, 16490, 16491, 16492, 16493, 16494, 16495, 16496, 16497, 16498, 16499, 16500, 16501, 16502, 16503, 16504, 16505, 16506, 16507, 16508, 16509, 16510, 16511, 16512, 16513, 16514, 16515, 16516, 16517, 16518, 16519, 16520, 16521, 16522, 16523, 16524, 16525, 16526, 16527, 16528, 16529, 16530, 16531, 16532, 16533, 16534, 16535, 16536, 16537, 16538, 16539, 16540, 16541, 16542, 16543, 16544, 16545, 16546, 16547, 16548, 16549, 16550, 16551, 16552, 16553, 16554, 16555, 16556, 16557, 16558, 16559, 16560, 16561, 16562, 16563, 16564, 16565, 16566, 16567, 16568, 16569, 16570, 16571, 16572, 16573, 16574, 16575, 16576, 16577, 16578, 16579, 16580, 16581, 16582, 16583, 16584, 16585, 16586, 16587, 16588, 16589, 16590, 16591, 16592, 16593, 16594, 16595, 16596, 16597, 16598, 16599, 16600, 16601, 16602, 16603, 16604, 16605, 16606, 16607, 16608, 16609, 16610, 16611, 16612, 16613, 16614, 16615, 16616, 16617, 16618, 16619, 16620, 16621, 16622, 16623, 16624, 16625, 16626, 16627, 16628, 16629, 16630, 16631, 16632, 16633, 16634, 16635, 16636, 16637, 16638, 16639, 16640, 16641, 16642, 16643, 16644, 16645, 16646, 16647, 16648, 16649, 16650, 16651, 16652, 16653, 16654, 16655, 16656, 16657, 16658, 16659, 16660, 16661, 16662, 16663, 16664, 16665, 16666, 16667, 16668, 16669, 16670, 16671, 16672, 16673, 16674, 16675, 16676, 16677, 16678, 16679, 16680, 16681, 16682, 16683, 16684, 16685, 16686, 16687, 16688, 16689, 16690, 16691, 16692, 16693, 16694, 16695, 16696, 16697, 16698, 16699, 16700, 16701, 16702, 16703, 16704, 16705, 16706, 16707, 16708, 16709, 16710, 16711, 16712, 16713, 16714, 16715, 16716, 16717, 16718, 16719, 16720, 16721, 16722, 16723, 16724, 16725, 16726, 16727, 16728, 16729, 16730, 16731, 16732, 16733, 16734, 16735, 16736, 16737, 16738, 16739, 16740, 16741, 16742, 16743, 16744, 16745, 16746, 16747, 16748, 16749, 16750, 16751, 16752, 16753, 16754, 16755, 16756, 16757, 16758, 16759, 16760, 16761, 16762, 16763, 16764, 16765, 16766, 16767, 16768, 16769, 16770, 16771, 16772, 16773, 16774, 16775, 16776, 16777, 16778, 16779, 16780, 16781, 16782, 16783, 16784, 16785, 16786, 16787, 16788, 16789, 16790, 16791, 16792, 16793, 16794, 16795, 16796, 16797, 16798, 16799, 16800, 16801, 16802, 16803, 16804, 16805, 16806, 16807, 16808, 16809, 16810, 16811, 16812, 16813, 16814, 16815, 16816, 16817, 16818, 16819, 16820, 16821, 16822, 16823, 16824, 16825, 16826, 16827, 16828, 16829, 16830, 16831, 16832, 16833, 16834, 16835, 16836, 16837, 16838, 16839, 16840, 16841, 16842, 16843, 16844, 16845, 16846, 16847, 16848, 16849, 16850, 16851, 16852, 16853, 16854, 16855, 16856, 16857, 16858, 16859, 16860, 16861, 16862, 16863, 16864, 16865, 16866, 16867, 16868, 16869, 16870, 16871, 16872, 16873, 16874, 16875, 16876, 16877, 16878, 16879, 16880, 16881, 16882, 16883, 16884, 16885, 1
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**Sampling By:** Thomas Jentzsch and Gerd R. Ziegler

Technical Management Siriluk P  
Siriluk Punsriwong

Approved by Kanok Anuk  
Kanok Anuk

[illegible]









TESTING

Lot ID: 2334829  
Date Received: Apr 05, 2023  
Date Reported: Apr 11, 2023  
Report Number: 2606780-1

Project Location: (Unit, S/L)										Page 1 of 1
Sample Number	2345678-1									
Sample Date	Apr 15, 2023 10:40 AM									
Sample Description	Group 2: Waterborne Micro-C									
Container ID	LOT	U/L	254	Phet	5.13	Site	Siam Glycolac Industry (S) (Sepon) Co., Ltd.			
Location	Factory 1									
Date Analysis Commenced	Apr 16, 2023									
Condition of Sample	Collected in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, 1924A)									
Physical Property	Colorless, odorless									
Analyte	Unit	LOD	LOQ	LOQ (LOI)	Result	Guideline / Specification	Method	Reference		
Water Testing										
DOD 15 (at 20 degrees C)	mg/L		2.0	<2.0	\$500	Standard Methods for the Examination of Water and Wastewater - APHA, 1924 A & B, 2nd ed., 2017, pp. 1210 B and 1240 C-1	Membrane Filtration	Membrane Filtration		
DOD	mg/L		25	<25	\$750	Standard Methods for the Examination of Water and Wastewater - APHA, 1924 A & B, 2nd ed., 2017, pp. 1242 D	Membrane Filtration	Membrane Filtration		
DH & Green	mg/L		3	<3	\$15	Standard Methods for the Examination of Water and Wastewater - APHA, 1924 A & B, 2nd ed., 2017, pp. 1240 B	Membrane Filtration	Membrane Filtration		
pH (at 20°C)					8.0	5.0-9.0	Standard Methods for the Examination of Water and Wastewater - APHA, 1924 A & B, 2nd ed., 2017, pp. 4501 B-100	Membrane Filtration	Membrane Filtration	
Temperature	Degrees C				32.7	6-45	Standard Methods for the Examination of Water and Wastewater - APHA, 1924 A & B, 2nd ed., 2017, pp. 212 B	Membrane Filtration	Membrane Filtration	
Total Suspended Solids Direct	mg/L		5	<5	\$200	Standard Methods for the Examination of Water and Wastewater - APHA, 1924 A & B, 2nd ed., 2017, pp. 2540 B	Membrane Filtration	Membrane Filtration		

**Guideline:** Standard of WHA Serambi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Terrestrial Puangku, no. GUANR8-1-201-a-71-7

**Remark:**

LOD	Limit of Detection
"<"	Lower than LOQ (Limit of Quantitation) / LDR (Limit of Reporting)

[illegible]

TESTING

Lot ID: 2334834  
Date Received : Apr 03, 2023  
Date Reported : Apr 10, 2023

Project Name		Facility Name		Report Number		Revision		
Project Location		WMA SS		WMA SS		WMA SS		
Sample Number	21070014							
Sample Date	Apr 03, 2023 10:35 AM							
Sample Description	Grav 2 Wetland AWC CT							
Contract ID	SL-021_2554	Page	56	Site	Santitas, Conchos Co., TX			
Analysis Commenced	Apr 04, 2023							
Analysis of Sample	Grav 2 (in poly plastic bottles) and one amber glass bottle, sample containers comply to pretreatment - preservation data							
Physical Property	Grav 2 (in poly plastic bottles) and one amber glass bottle							
Acetate	Unit	LLO	LLO (LOQ)	Result	Guideline / Specification	Method	Twins Location	
Water Testing								
BOD (5 days @ 20 degree C)	mg/L		2.0	23.5	\$100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WPCF, 24th ed., 2012 (pp 502-50), per 502-50	Amphibian	
COD	mg/L		25	136	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WPCF, 24th ed., 2012 (pp 502-50), per 502-50	Amphibian	
Oil & Grease *	mg/L		3	8	\$10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WPCF, 24th ed., 2012 (pp 502-50), per 502-50	Amphibian	
pH (at use) *					7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WPCF, 24th ed., 2012 (pp 650-610), per 650-610	Amphibian
*temperatures *	degrees C				20.8	8-15	Examination of Water and Wastewater, APHA, AWWA, & WPCF, 24th ed., 2012 (pp 650-610), per 650-610	Amphibian
*Total Suspended Solids Determined at 125-150 degree C	mg/L		5	124	\$200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WPCF, 24th ed., 2012 (pp 240-240)	Amphibian	

**Sampling By:** Thomas J. Kelly, mscusa008@fda.gov

[illegible]

TESTING

Lot ID: 2334856  
Date Received : Apr 05, 2023  
Date Reported : Apr 11, 2023  
Report Number: 3400000000

Project Location: WAHA, SLA		Report Number: 2154056-1		Page: 1			
Sample Number	2154056-1						
Sample Date	April 25, 2023 10:45 AM						
Sample Description	Group 2 Watermeter WWC-1						
Contract ID	SLA_204_2154	Page	1/3	Site	The Water Food's (Thailand) Co.,Ltd (SLA)		
Date Analysis Completed	On April 26, 2023						
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pre-treatment / preservation standards (USEPA, 1978)						
Physico Property	Yielded a mix of solid, semi solid and liquid						
Analysis	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Yield/Limit
Water Testing							
BOD <sub>5</sub> (1 day at 20 degree C)	mg/L		2.0	105	6500	Standard Method for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 1995, 2nd ed., 2011, 2017, 2019 200-906, part 9100 C-1	Single
COD	mg/L		25	343	6750	Standard Method for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 1995, 2nd ed., 2011, 2017, 2019 5210 D	Single
DO & Grains *	mg/L		3	<3	610	Standard Method for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 1995, 2nd ed., 2011, 2017, 2019 9200 B	Single
pH (at 90C)				7.4	5.5-9.0	Standard Method for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 1995, 2nd ed., 2011, 2017, 2019 9245 C	Single
* Temperature *	Degree C			34.9	6-45	Standard Method for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 1995, 2nd ed., 2011, 2017, 2019 9100 B	Single
24-hr Supersat. Diss. O <sub>2</sub> at 12.5-25 degree C	mg/L		5	47	5200	Standard Method for the Examination of Water and Wastewater: APHA, AWWA, & WEF, 1995, 2nd ed., 2011, 2017, 2019 9200 D	Single

**Guideline:** Standard of Wika Sarabui Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Terrestrial Pungkuw medusawati + 2014-7107

**Sarabui**

100	Unit of Detection
<1	Lower than 100 (Unit of Quantitation); 108 (Unit of Reporting)

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

*The laboratory has been accredited as an accredited laboratory according with the ISO/IEC 17025.*

[illegible]







## TESTING

TESTING  
No.0009  
Lot ID: 2334843  
Date Received : Apr 06, 2023  
Date Reported : Apr 12, 2023  
Report Number : 2606016-1



## TESTING

TESTING  
No. 0009  
Lot ID: 2334844  
Date Received : Apr 03, 2023  
Date Reported : Apr 11, 2023  
Report Number : 2606620-1

Legend

- LOD Limit of Detection
- <L Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* are not included in scope of Accredited ISO/IEC 17025.

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

Legend

- LOD Limit of Detection
- <L Lower than LOD (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* are not included in scope of Accredited ISO/IEC 17025.

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

Technical Management

Next Sum

### Assessment Day

Look At

Specialist 1	Senior Manager
๒๐/๑๒๕๖๓๗ ๖-๒๐๒-๖๕๗๓	๒๐/๑๒๕๖๓๗ ๖-๒๐๒-๖๕๗๓

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RIGHT SOLUTIONS RIGHT PLATFORM

#### Technical Management

Next Sum-

### Acknowledgments

Link A.I.

Senior Manager  
en.Duyun@v-204-en-6111

[illegible]

RIGHT SOLUTIONS/RIGHT PARTNER





## TESTING

Analysis / Test Report

## TESTING

Analysis / Test Report

TESTING  
No. 006

TESTING  
No. 000  
**Lot ID: 2348609**  
Date Received : May 11,  
Date Reported : May 18,  
Report Number : 263723

Sample Number		23460921										11	2023
Sample Date		May 11, 2023 - 1:45 PM											
Sample Description		Group 2 Watermeter WSC*											
Contract ID		CL 0012560										Page	48/48
Date Analysis Commenced		May 12, 2023											
Detailed Description of Sample		Yield of one amber glass bottle and three plastic bottles. Sample containers comply to pre-treatment - preservation standards for the following:											
Physical Property		Yellow, odorless, some SO4, and m/L turbid											
Analyte	Unit	LOD	LOQ	LOD	LOQ	Result	Qualifier / Identification	Method	Testing Location				
Water Testing													
EC2 (5 sec @ 25 degrees C)	mS/cm			2.0	<2.0	6500		Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601				
CO2	mS/cm			25	<25	6750		Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601				
Chlorine Res.	mS/cm			3	5	610		Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601				
pH (at 25°C)						7.4	5.5-8.0	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601				
Temperature	Degrees C					20.1	645	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601				
* See Approved Safety Data at 103-1031-0010	mS/cm					7	6200	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601	Standard Methods for the Examination of Water and Wastewater 19th, 9100, 8.609, 2nd ed., 2011, pp 1110 B, pp 9601				

**Guideline:** Standard of WHA Serabon Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.

**Sampling By:** Timorwast Pungkiang, indonesian - 204-a-7107

**Remark:**

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

Technical Management *Siriluk P* Approved by *Kanok A*

Siriluk Pungpung  
Supervisor  
MUSKOWAT - 0204-47220

Kanokkavong Anish  
Senior Manager  
MUSKOWAT - 0204-6111

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## TESTING

Analysis / Test Report

## TESTING

Analysis / Test Report

TESTING  
No. 904

TEST ID: 2348553  
Date Received: May 11  
Date Reported: May 17  
Report Number: 262705

Sample Number	21M052-1						
Sampled Date	May 11, 2023 at 11 AM						
Sample Description	Group 2 Waterborne WWCT				Site		Fajalco Cajoneros
Contract ID#	SU_2017_2156						
Date Analysis Commenced	May 12, 2023						
Condition of Sample (APHA/USEPA)	Control is one amber glass bottle and three plastic bottles; sample containers comply to pretreatment / preservation standards.						
Physical Property	Coincident observations, no odors, and no turbid.						
Analyte	Unit	LOD	LOQ	Results	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	m/L	-	3.0	4.8	\$500	Standard Methods for the Examination of Water and Wastewater - APHA, auto & NSF, 23rd ed., 2017, ppn 9210-B, page 9210-B, C-E	Rancho
COD	m/L	-	25	36	\$750	Standard Methods for the Examination of Water and Wastewater - APHA, auto & NSF, 23rd ed., 2017, ppn 9220-D	Rancho
O&B + Gase *	m/L	-	3	<3	\$50	Standard Methods for the Examination of Water and Wastewater - APHA, auto & NSF, 23rd ed., 2017, ppn 9250-B	Rancho
pH (in site) *	-	-	-	7.9	5.9-9.0	Standard Methods for the Examination of Water and Wastewater - APHA, auto & NSF, 23rd ed., 2017, ppn 9590-B	Rancho
Temperature *	Degree C	-	-	32.8	6-15	Standard Methods for the Examination of Water and Wastewater - APHA, auto & NSF, 23rd ed., 2017, ppn 9590-B	Rancho
Total Suspended Solids Dried at 103-105 Degree C	m/L	-	5	13	\$200	Standard Methods for the Examination of Water and Wastewater - APHA, auto & NSF, 23rd ed., 2017, ppn 9260-C	Rancho

Guideline: Standard of WHO Sanbau Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: T. Teewat Pungsook, mduosual-1-204-s-7107

Remark:

LOD	Limit of Detection
LOQ	Lower than LOQ (Limit of Quantitation) (LOQ, Limit of Reporting)

Arabic: marked \* value not included in scope of Accreditation (ISO/IEC 17025).  
The laboratory has been accredited at an accredited laboratory (conforming with the ISO/IEC 17025).

[illegible]

## TESTING

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## TESTING

United  
 100, Moo 11, Bangkhen, Bangkok 10140

TESTING

Lot ID: 2348556  
Date Received: May 08  
Date Reported: May 15  
Report Number: 263703

Sample Number	23463516										
Sampled Date	06/06/2022 1:00 PM										
Sample Description	Group 2: Metastorm WSPCT										
Container ID	SML_008_2554		Plot 2	Title: Guardian Industries Corp. Ltd.							
Location	Plot 3										
Analysis Description	Compared to an amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (AMPA/23463516)										
Physical Property	Value, reference, min, calid, and no. tested										
Analysis	Unit	LOD	LOQ	Result	Container / Specification	Method	Swine Location				
Vector Testing											
BOD (15 days at 20 degree C)	mg/L	-	2.0	4.5	S100	Standard method for the Determination of time and temperature: APHA, 1995 & NEN, 2nd ed., 2017, pp 1211-8, pp 4100 - C	Sample				
COD	mg/L	-	25	30	S190	Standard method for the Determination of time and temperature: APHA, 1995 & NEN, 2nd ed., 2017, pp 1520 D	Sample				
GB & Grease	-	-	3	3	S10	Standard method for the Determination of time and temperature: APHA, 1995 & NEN, 2nd ed., 2017, pp 1520 B	Sample				
pH (in situ)	-	-	7.7	5.2-9.0	S2-9.0	Standard method for the Determination of time and temperature: APHA, 1995 & NEN, 2nd ed., 2017, pp 4500 - H (F)	Sample				
Temperature	degree C	-	75.7	54.5	S45	Standard method for the Determination of time and temperature: APHA, 1995 & NEN, 2nd ed., 2017, pp 2550 B	Sample				
Total Suspended Solids (Dried at 10 ± 0.5 degree C	mg/L	-	5	7	S200	Standard method for the Determination of time and temperature: APHA, 1995 & NEN,	Sample				

Guideline: Standard of RPA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling by : Teerasat Pongsakul, wongkornw@v-204-u-7107

[illegible]













Client : WSA Utilities and Power Public Company Limited	Lot ID: 2348638
111 Moo 7, Nongplakadi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140	Date Received : May 11, 2023
P/O :	Date Reported : May 18, 2023
Project Name : Factory / Monthly	Report Number : 263730-1
Project Location : WSA S1	

Sample Number	23401061									
Sent Date	May 11, 2023 1:30 PM									
Sample Description	Group 2: Descriptive WHC*									
Contract ID	123-2354	Post	20	Site Number: 522, Patient: C0, L6						
Date Analysis Commenced	May 12, 2023									
Condition of Sample	Contained in one amber glass bottle and three plastic bottles. Sample containers comply with pre-treatment - preservation standards (N/A/MSD)									
Physical Property	None, some odor, some solid, and furred									
Analyte	Unit	LOD	LOQ	Result	Qualitative / Nomenclature	Method	Testing Location			
Water Testing										
BOD (5 days @ 20 degrees C)	mg/L	-	2.0	16.6	\$500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 1910 (BOD at 20°C)	Bempong			
COD	mg/L	-	20	72	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 1920 (COD)	Bempong			
Oil & Grease *	mg/L	-	3	<3	\$10	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 1930 (Oil & Grease)	Bempong			
pH (at 20°C)	-	-	-	-	7.4	5.5-6.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 1940 (pH)	Bempong		
Temperature *	Degrees C	-	-	34.5	34.5	20.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 1950 (Temperature)	Bempong		
Total Dissolved Solids Dissolved at 180 degrees C	mg/L	-	5	1896	\$3000	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 1960 (TDS)	Bempong			

103-105 degree C	5	29	\$200	Standard Methods for the Examination of Water and Wastewater APHA, AWWA & WEF, 23rd ed., 2017, part 2040 D	Bangkok
<p><b>Guideline:</b> Standard of WHO Sanitary Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.</p> <p><b>Sampling By:</b> Torrarat Puangka, m06045451-204-7107</p>					

[illegible]

Client : WWA Utilities and Power Public Company Limited  
111 Moo 7, Nongpladkadi Road, Nongplamoh, Nongkhae, Saraburi Thailand 28140  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WWA S2

Lot ID: 2348629  
Date Received : May 12, 2023  
Date Reported : May 18, 2023  
Report Number : 2637280-2

Page 1 of 1							
Sample Number	23400291						
Sampled Date	May 13, 2013 11:40 AM						
Sample Description	Group 2 Wastewater Plant C1						
Contract ID	301-001-2314	Plant	36	Site	Ready Clean Co., Ltd.		
Date Analysis Commenced	May 13, 2013						
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA/USEPA)						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
<b>Wastewater Testing</b>							
Amoxic Sulbactam as HPLAS	mg/L	0.013	0.05	0.36	3.30	Based on Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, 9160-2340 (2011), part 1940 B. C.	Samplng
<b>Guideline:</b> Standard of WHO/Seacarb Industrial Limit, Maximum levels for wastewater discharging to central wastewater treatment plant.							
<b>Sampling By:</b> Projeet Wastechcochco							
<b>Notes:</b>							
LOD: Limit of Detection							
LOQ: Lower than LOQ (Limit of Quantification) (LOQ, Limit of Reporting)							

Approved by: Sushmita C  
 Sarin, Chairman  
 Student (C)

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Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakrad Road, Nongplamoh, Nonghae, Saraburi Thailand 18140  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WHA S2L

Lot ID: 2348585  
Date Received : May 03, 2023  
Date Reported : May 11, 2023  
Report Number : 2637162-1

Sample Number	2140581-1						Page #	1
Sampled Date	May 03, 2023 @ 9:40 AM							
Sample Description	Ernst & Wastewater WalC*							
Collection ID	EW-WalC-2316		Plate	136		Site	Koch-Huchstadts (Thailand) Co., Ltd.	
Date Analysis Commenced	May 05, 2023							
Description of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservative standards Wastewaters, some color, odor and fishy no frosted							
Physical Property								
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location	
Biochemical Testing								
BOD <sub>5</sub> (5 days @ 20 °C)	mg/L	-	2.0	9.6	6350	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, § 9200, 9201, 9204, 9205, part 4001, 4101	Bimpack	
COD	mg/L	-	20	56	8750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, § 9200, 9201, 9204, 9205, part 5200, 5201	Bimpack	
Oil & Grease *	mg/L	-	3	<3	510	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, § 9200, 9201, 9204, 9205, part 5200, 5201	Bimpack	
pH (at 20 °C)	-	-	-	-	8.7	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 9100, 9101, 9102	Bimpack
Temperature *	°C	-	-	33.3	645	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 2100, 2101, 2102	Bimpack	
Total Suspended Solids Determined at 105 ± 5 °C/mg/cm³	mg/L	-	5	12	1200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2005, part 2500, 2501, 2502	Bimpack	

**Guideline:** Standard of WSA Sanbun Industrial Ltd., Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Tetsuo Fukuyama, Kōbe Steel Co. Ltd. (204-1-7107)

**Remarks:**

LOQ	Limit of Detection
LOQ	Limit of Quantitation
LOQ	Limit of Reporting

*Analysis marked \* is/are not included in scope of Accreditation ISO/IEC 17025.*

Technical Management Summon C Approved by Carl Ahe

Sumner Chalmers  
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inbound 1/26/04 5:47

URGENT Ark  
Seria Hawk  
inbound 1/26/04 6:11

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## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongstakrad Road, Nongstamroh, Nongkhay, Saraburi Thailand 1814  
P/O :  
Project Name : Factory Monthly  
Project Location: WHA S1L

Sample Number	2345656-1							Page: 1		
Sample Date	May 12, 2023 2:00 PM									
Sample Description	Group 2 Wastewater WW-CF									
Contract ID	SL 232354		Project ID	PRJ 1941		Site	SCS Roofing Co,LLM			
Date Analysis Commenced	May 13, 2023									
Container of Sample	Contained in two amber glass bottles and three plastic bottles, sample containers comply to predetermined - preservation standards (APHA 2292.02)									
Physical Property	Yellow, odorless, no solid and turbid									
Analyte	Unit	LOD	LOQ	LOU	Result	Guideline / Specification	Method	Test Method		
Water Testing										
SCS 5 days 20 degrees C	mg/L	-	1.0	<1.0	5500		Standard Method for the Examination of Water and Wastewater, APHA, 23rd ed., 2017, part 5210 B, Simplex, 10°C	Single		
COD	mg/L	-	25	35	5750		Standard Method for the Examination of Water and Wastewater, APHA, 23rd ed., 2017, part 5210 C	Single		
Oil & Grease *	mg/L	-	3	<3	610		Standard Method for the Examination of Water and Wastewater, APHA, 23rd ed., 2017, part 5510 B	Single		
pH (at 20°C)	-	-	-	-	8.8	5.5-9.0	Standard Method for the Examination of Water and Wastewater, APHA, 23rd ed., 2017, part 9100 B	Single		
Temperature *	Degree C	-	12.0	145			Standard Method for the Examination of Water and Wastewater, APHA, 23rd ed., 2017, part 1810	Single		
*Not Supplemented Salts Deviated at 123-105 degrees C	mg/L	-	5	9	6200		Standard Method for the Examination of Water and Wastewater, APHA, 23rd ed., 2017, part 5410 C	Single		

**Guideline:** Standard of Wih Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Tereavit Puangka, mdu500041-1-204-a-7107  
**Remark:**  
 LOD: Limit of Detection  
 "u": Lower than LOD (Limit of Quantitation) / LOB (Limit of Reporting)  
 Analysis marked \* means not included in scope of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakadi Road, Nongplamoh, Nonghae, Saraburi Thailand 181  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WHA SCL

Sample Number	2380003				
Sampled Date	May 11, 2013 12:00 PM				
Sample Description	Group 2 Waterbury WH-C7				
Contract ID	SL-071-2517				
Location	Point 1				
Date Analyzed	May 13, 2013				
Condition of Sample	Glass amber glass bottles and three plastic bottles, samples container come to pre-treatment - preservation standards (APHA/CLEPA)				
Physical Property	Yellows, odorous, some solid, and turbid				
Analyte	Unit	LOD	LOQ	Result	Method
					Specificity
Water Testing					
CO <sub>2</sub> (5 days at 20 degree C)	mg/L	-	2.0	83	\$500
					Standard Method for the Determination of Carbon Dioxide in Water, APHA, 22nd ed. 1995, 23rd ed. 2012, per 1920 B, 1945 C-10
COO	mg/L	-	25	34	\$750
					Standard Method for the Determination of Oxidizable Organic Matter in Water, APHA, 22nd ed. 1995, 23rd ed. 2012, per 1920 B, 1945 C-10
Oil & Grease *	mg/L	-	3	3	\$10
					Standard Method for the Determination of Oil and Grease in Water, APHA, 22nd ed. 1995, 23rd ed. 2012, per 1920 B
pH (in situ) *		-	-	8.1	1.5-6.0
					Standard Method for the Determination of Acidity and Alkalinity in Water, APHA, 22nd ed. 1995, 23rd ed. 2012, per 1920 B
Temperature *	Degree C	-	-	21.8	1945
					Standard Method for the Determination of Temperature in Water, APHA, 22nd ed. 1995, 23rd ed. 2012, per 1920 B
Total Suspended Solids Dried at 103-105 °C	mg/L	-	25	123	\$200
					Standard Method for the Determination of Total Suspended Solids in Water, APHA, 22nd ed. 1995, 23rd ed. 2012, per 1920 B

Guideline: Standard of WYSA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By: Terenrat Puangrak w32000001 v-204-s-7107

Technical Management *C. S. S. S.* Approved by *K. A. A. A.*  
 Nathan Leung  
 Supervisor  
 nleung@alibabacloud.com

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SECRET/NO

PROJECT: SECURITY AUDIT



## Analysis / Test Report

Client: WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 301  
P/O :  
Project Name : Factory 1 Monthly  
Project Location : WHA SLL

Sample Number	23453919	Filter						
Sample Date	May 11, 2013 10:30 AM							
Sample Description	Group 2 Waterfilter WWCT							
Contract ID	12, 361, 2357	Plot	130					
Date Analyzed	June 2, 2013	Site	Shorewest (NWC Co.1312)					
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers capped to prevent evaporation - preservation method: Yellow, colorless, some odor, and no fumes							
Physical Property								
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Team Lead	
Water Testing								
DO (5 min at 20 degrees C)	mg/L		2.0	<2.0	6500	Standard Method for the Determination of Water and wastewater, APHA, 19th ed. 2005, p. 249, sec 10.10, pp 10-100	ling	
COD	mg/L		25	<25	6750	Standard Method for the Determination of Water and wastewater, APHA, 19th ed. 2005, p. 249, sec 10.10, pp 10-100	ling	
Oil & Grease *	mg/L		3	<3	510	Standard Method for the Determination of Water and wastewater, APHA, 19th ed. 2005, p. 249, sec 10.10, pp 10-100	ling	
pH (at site) *					7.8	15.5-6	Standard Method for the Determination of Water and wastewater, APHA, 19th ed. 2005, p. 249, sec 10.10, pp 10-100	ling
Temperature *	Degrees C				31.8	5-45	Standard Method for the Determination of Water and wastewater, APHA, 19th ed. 2005, p. 249, sec 10.10, pp 10-100	ling
Total Suspended Solids Dried at 103-105 degrees C	mg/L		5	10	2200	Standard Method for the Determination of Water and wastewater, APHA, 19th ed. 2005, p. 249, sec 10.10, pp 10-100	ling	

**Guideline:** Standard of WHO Sanction Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
**Sampling By:** Technical Puangku Indonesia 1-204-e-7107  
**Remark:**  
 LOD : Limit of Detection  
 "C" : Lower than LOD (Limit of Quantitation) or LQA (Limit of Reporting)  
 Analytical method : Incriminated included in scope of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Siriluk P

Siriluk Pungpang  
Supervisor  
mimluc@msd.com.sg

Approved by

Kanok Anh

Kanok Anh  
Senior Manager  
mimluc@msd.com.sg

The above declaration is made by me in my capacity as a Director of the Company.

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E-MAIL: mimluc@msd.com.sg

[www.asiainfo.com.sg](http://www.asiainfo.com.sg)

REGISTERED OFFICE

REGISTERED SECRETARY

REGISTERED COMPANY





TESTING  
No. 0009  
Lot ID: 2348632  
Date Received : May 12, 2023  
Date Reported : May 18, 2023  
Report Number : 2637266-1

Analysis / Test Report

TESTING  
No. 0009  
Lot ID: 2348634  
Date Received : May 12, 2023  
Date Reported : May 18, 2023  
Report Number : 2637203-1

Analysis / Test Report

TESTING  
No. 0008  
**Lot ID: 2348634**  
Date Received : May 12, 2011  
Date Reported : May 18, 2011  
Report Number : 2637290

Technical Management Sunimon C Approved by Karl A. A.  
Sumner Chavengul Senior Manager  
Selection (I) midwest@msi.com-4011  
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TESTING  
No.0009  
Lot ID: 2348633  
Date Received : May 05, 2023  
Date Reported : May 12, 2023  
Report Number : 2637293-1

Analysis / Test Report

TESTING  
No. 0009  
Lot ID: 2348633  
Date Received : May 05, 2023  
Date Reported : May 12, 2023  
Report Number : 2637293-1

Analysis / Test Report

TESTING  
No. 0003  
Lot ID: 2348614  
Date Received : May 12, 2011  
Date Reported : May 18, 2011  
Report Number : 2637236

[illegible]

TESTING  
No. 0009  
Lot ID: 2348567  
Date Received: May 12, 2023  
Date Reported: May 18, 2023  
Report Number: 2637104-1

Analysis / Test Report

TESTING  
No. 0009  
**Lot ID: 2348562**  
Date Received : May 12, 2023  
Date Reported : May 18, 2023  
Report Number : 2637091-1

Analysis / Test Report

TESTING  
No. 0008  
Lot ID: 2348563  
Date Received : May 11, 2011  
Date Reported : May 17, 2011  
Report Number: 76370904

Technical Manager	<u>C. S. S.</u>	Approved by	<u>K. A. A.</u>
	Nitin Sengupta Supervisor m(sengupta) = 2004-075		Kamalakant Senior Manager m(sengupta) = 2004-011
<p>The undersigned hereby certifies that the said documents are true and correct copies of the original documents submitted to him for the purpose of the above mentioned contract.</p>			
<p>ACCEPTED FOR THE PROJECT: 801, Mathabeswar Road, Chatterjee Park, New Town, Kolkata-700013. (PHONE: 985 07 70 8332; FAX: 985 07 70 8331; E-MAIL: <a href="mailto:raj@rajgopal.com">raj@rajgopal.com</a>)</p>			
<p>DATE: <u>16/06/2006</u></p>		<p><a href="http://www.rajgopal.com">www.rajgopal.com</a></p>	
<p>PROJECT: 801, Mathabeswar Road, Chatterjee Park, New Town, Kolkata-700013</p>			
<p>DATE: <u>16/06/2006</u></p>		<p><u>2</u> (Number of Pages)</p>	

















## Analysis / Test Report

Client : WPA Utilities and Power Public Company Limited  
111 Moo 7, Nongplekrai Road, Nongkhem, Nongkhae, Sarabul Thailand 10140  
P/O :  
Project Name : Factory 1 Monthly  
Product Location: 1014A, CT

Sample Number					238121-2		
Sampled Date					Jun 06, 2023 11:50 AM		
Sample Description					Group 2 Wastewater KWC		
Contract ID					555_47712557 Plot: #6		
Date Analyzed/Commanded					Jun 09, 2023		
Physical Description of Sample (APHA/USEPA)					Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards		
Hazardous Property					Flammable, non-toxic, no solid and liquid		
Analysis		Unit	LOD (LOQ) (LOEL)	Result	Guideline / Specification	Method / Testing Limit/LOEL	
Water Testing							
Conductivity at 25 degree C		microsiemens / cm	0.5	2063	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, 1995a, 1995b, 1995c, 2017 and 2017-18	Bangladeshi
<p><b>Guideline:</b> Standard of WHO, Sustainable Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.</p> <p><b>Sampling By:</b> Thermal Pumping</p> <p><b>Remark:</b></p> <p>LOD = Limit of Detection  LOEL = Limit of Quantitation / LOQ = Limit of Reporting</p>							

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## Analysis / Test Report

Client : WSA Utilities and Power Public Company Limited  
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140  
P/O :  
Project Name : Factory I Monthly  
Project Location : WSA CO.

Sample Number							Page 1 of 1
Sample Date							
Sample Description							
Date Analyzed							
Date Sample Collected							
Condition of Sample							
Physical Property							
Test							
Water Testing							
COD							
Oil & Grease							
pH (at 25°C)							
Temperature							
Total Dissolved Solids Determined at 180 Degrees C							
Total Suspended Solids Determined at 100 Degrees C							
Sample Number	2361						
Sample Date	Jun 12 (2023) 1:58 PM						
Sample Description	Group 2 Wastewater WWT						
Test	2361_2356		File	49	Site	Project	Watershed Co-Ord
Date Analyzed	Jun 12, 2023						
Date Sample Collected	Jun 12, 2023						
Condition of Sample	Contents of one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservative standards						
Physical Property	Combined of one amber glass bottle and one plastic bottle						
Test	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degrees C)	mg/L		< 2.0	< 2.0	\$500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham
COD	mg/L		< 25	< 25	\$750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham
Oil & Grease	mg/L		< 3	< 3	610	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham
pH (at 25°C)				7.9	5.5-8.5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham
Temperature	Degrees C			33.7	6-65	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham
Total Dissolved Solids Determined at 180 Degrees C	mg/L		5	116	\$3000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham
Total Suspended Solids Determined at 100 Degrees C	mg/L		5	< 5	\$200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2011, pp. 1021B-1021C	Birmingham

Guideline - Standard of What Wastewater Industrial Ltd., Maximum levels for wastewater discharging to control wastewater treatment plant.

Sampling By: Jeevan Dharwadkar (Industrial Ltd.) Date: 2023-06-12 17:51:17

Notes:

[illegible]

## Analysis / Test Report

**Client:** WHA Utilities and Power Public Company Limited  
111 Moo 7, Nongtrakarn Road, Nonglarnoh, Nongkhaw, Saraburi Thailand 18141  
**P/O:**  
**Project Name:** Factory 1 Monthly

[illegible][illegible]





TESTING  
No. 0009

Lot ID: 2361928  
Date Received : Jun 13, 2023  
Date Reported : Jun 20, 2023  
Report Number : 2566201-1

Sample Number	228158-1						Page 1 of 1
Sample Date	Jun 13, 2022 2:00 PM						
Sample Description	Group 2 Wastewater WSC2						
Contract ID	SL-26-2024	Project	18152-02		Site	Huashan Wastewater ("Huashan") Co., Ltd.	
Date Analysis Commenced	Jun 14, 2022						
Condition of Sample	Contained in one amber glass bottle and three plastic bottles; sample containers comply to pre-treatment - preservative standards						
Physical Property	Wastewater, yellow, odorous, and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Certification	Method	Testing Location
Water Testing							
ROD (5 days @ 20 degrees C)	mg/L	< 2.0	36.3	0.50	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 2nd ed., pp. 1219 B, pp. 4000 - 4100		Bimphal
COD	mg/L	< 25	121	6750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 2nd ed., pp. 1212 D, pp. 1210 D		Bimphal
Oil & Grease *	mg/L	< 3	3	0.15	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 2nd ed., pp. 1202 B		Bimphal
pH (at 20 °C)		< 7.5	5.5-8.0		Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 2nd ed., pp. 4500 - 4510		Bimphal
Temperature *	Degrees C	< 35.3	9.45		Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 2nd ed., pp. 2510 A		Bimphal
*See Supplemental Data Sheet at 10-150 Degree C	mg/L	< 5	14	£200	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 2nd ed., pp. 5410 D		Bimphal

LOQ (Limit of Detection)  
 "c" Lower than LOQ (Limit of Quantitation) / LOA (Limit of Reporting)  
 Analytes marked \* have not included in scope of Accreditation ISO/IEC 17025.  
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical/Management	<u>Siriluk P</u>	Approved by	<u>Kade Auk</u>
	Siriluk Pongrungs Section Head id00444444444444444444		Kadek Anik Senior Manager id00444444444444444444
<p><small>* Please E-mail your request to: <a href="mailto:Request@anglolobal.com">Request@anglolobal.com</a></small></p> <p>ADDRESS: No. Prastawa 10, Prastawa RT, Kuningan Prastawa, Krt. Sro. Gunung Kemuning, 60125 Tumpang, PHONE: +62 61 790 300 FAX: +62 61 790 305</p> <p>ALL RIGHTS RESERVED. © 2014 Anglo Global Ltd. All Rights Reserved and Company</p> <p><b>www.anglolobal.com</b></p>			
SGS Technochem	PHUGATY SORUKA THONG	PHUGATY SORUKA THONG	E-Request: <a href="mailto:SGS@anglolobal.com">SGS@anglolobal.com</a>



TESTING  
No. 0009

Lot ID: 2361971  
Date Received: Jun 14, 2023  
Date Reported: Jun 20, 2023  
Report Number: 2666519-1

Sample Number	23637-1						
Sample Date	Jun 14, 2023 12:00 PM						
Sample Description	Group 2 Waterworks HWCT #7						
Contact ID	SL 282,2360						
Date Analysis Commenced	Jun 15, 2023						
Location of Sample	Continued on next amber glass bottle and three plastic bottles; sample containers couriered to prescriber; preservation standard (APHA 9100A)						
Physical Property	Water, a mix of open, closed, and sealed						
Analyte	Unit	LOD	LOQ	Result	Quadrant / Identification	Method	Testing Location
Water Testing							
BOD (5 days @ 20 degrees C)	mgl/L	<	2.0	355	\$500	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WEF, 19th ed., 2018, pp. 5117 B, pp. 5118 B	Bioscience Resource Project
COD	mgl/L	<	25	282	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WEF, 19th ed., 2018, pp. 5210 D	Bioscience Resource Project
Oil & Grease *	mgl/L	<	3	9	\$10	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WEF, 19th ed., 2018, pp. 5210 B	Bioscience Resource Project
pH (on site) *		<		7.2	5.9-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WEF, 19th ed., 2018, pp. 4510 C-10 B	Bioscience Resource Project
Temperature *	Degrees C	<		34.9	645	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WEF, 19th ed., 2018, pp. 2150 B	Bioscience Resource Project
Total Suspended Solids dried at 103-105 Degrees C	mgl/L	<	5	41	\$200	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, & WEF, 19th ed., 2018, pp. 2540 D	Bioscience Resource Project

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

**Technical Management**

Siriluk P.

Milaka Pungtung  
Sector Head  
MIDWANA-0204-4750

**Approved by:** Kade Aih

KARIMAH Arik  
Sector Manager  
MIDWANA-0204-6117

The undersigned hereby certifies that the above information is true and correct as far as it goes.

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**Care Subscriptions:** [www.msfglobal.com](http://www.msfglobal.com)

PREGAT: MELATI TAYLOR, Project Officer, 0204-4750-1

MSF/0204/0001

5/2000/01\_01



TESTING  
No. 0009

Lot ID: 2361986  
Date Received : Jun 13, 2023  
Date Reported : Jun 20, 2023  
Report Number : 2666645-1

Sample Number	2309861						Page 1
Sample Date	Jun 23, 2022 9:25 AM						
Sample Description	Group 2 Watermeter WWTCT						
Sample ID	SL0022565		Flow	6	Site	Newspapers Industries Co., Ltd.	
Date Analyzed / Commenced	Jun 24, 2023						
Condition of Sample (Atmosphere)	Contrained in one amber glass bottle and three plastic bottles; sample containers closed at pretreatment - preservation standard						
Physical Property	Water, a lot of sulfur smell, and turbid						
Analyte	Unit	LOD	LOQ	Result	Cause/Note / Interpretation	Method	Testing Location
Water Testing							
EOD (15 sec @ 20 degree C)	mPa.s	-	20	45.6	5300	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 23rd ed., 2017, pp.5218 & 5189	Bangladesh
					N/A		
COD	mPa.s	-	25	19.4	6750	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 23rd ed., 2017, pp.7222-0	Bangladesh
					N/A		
Oil & Grease *	mPa.s	-	3	<3	510	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 23rd ed., 2017, pp.1522-0	Bangladesh
					N/A		
pH (in air) **	-	-	-	-	5.9-6.0	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 23rd ed., 2017, pp.650-0 + HJ20	Bangladesh
					N/A		
Temperature *	Degree C	-	-	32.8	645	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 23rd ed., 2017, pp.255-0	Bangladesh
					N/A		
Total Suspended Solids Dried at 105-105 degrees C	mPa.s	-	5	30	2200	Standard Methods for the Examination of water and wastewater, APHA, AWWA & WEF, 23rd ed., 2017, pp.2843-0	Bangladesh

Remarks:

LQD Limit of Detection  
"x" lower than 1/20 (Limit of Quantitation) / 1/10 (Limit of Reporting)  
Analysis marked "x" is not included in scope of Accreditation ISO/IEC 17025.  
The laboratory has been accepted in an accredited laboratory complying with the ISO/IEC 17025.

[illegible]





















## TESTING

Lot ID: 2361996  
Date Received: Jun 13, 2023  
Date Reported: Jun 20, 2023  
Report Number: 2666584-1

Sample Number	2361996-1		
Sampled Date	Jun 12, 2013 11:35 AM		
Sample Description	Group 2 Wastewater WW-CT		
Contract ID	SIL_014_2354	Plot	7.140
Site Analysts	Thai Rayon Public Limited Company		
Date Analysis Commenced	Jun 14, 2013		
Condition of Sample	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment + preservation standards (APHA USEPA)		

Physical Property	Units	Source, no. valid, and tested	Standard / Specification	Method	Testing Location	
Analysis	Unc.	LOD				
Water Testing						
BOD (5 days @ 20 degree C)	mg/L	-	2.0 - 0.26	\$300	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2012, 19th ed. 2015, 20th ed. 2018, 21st ed. 2021, 22nd ed. 2023	Berkeley
COD	mg/L	-	25 - 39	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2012, 19th ed. 2015, 20th ed. 2018, 21st ed. 2021, 22nd ed. 2023	Berkeley
Oil & Grease *	mg/L	-	3 - 43	\$35	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2012, 19th ed. 2015, 20th ed. 2018, 21st ed. 2021, 22nd ed. 2023	Berkeley
pH (on site)	-	-	7.8	1,5-6.0	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2012, 19th ed. 2015, 20th ed. 2018, 21st ed. 2021, 22nd ed. 2023	Berkeley
Sulfide *	mg/L	-	0.3 -0.5	61	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2012, 19th ed. 2015, 20th ed. 2018, 21st ed. 2021, 22nd ed. 2023	Berkeley
Temperature *	Degree C	-	13.9	645	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed., 2012, 19th ed. 2015, 20th ed. 2018, 21st ed. 2021, 22nd ed. 2023	Berkeley

Total Suspended Solids Dried at 103-105 degree C	mg/L	x	5	45	5200	2nd ed., 2017, part 2550-B Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540-D	Bangka
<p>Guideline : Standard of WIRA Sanborn Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.</p> <p>Sampling By : Timoteus Punguk w000uav0 &gt; 204-r-7207</p>							

Technical Management Sunimon C Approved by Kate A. A.  
 Sunimon C  
 Scientist (I)  
 midswat@204-4942  
 Kankani Ansh  
 Senior Manager  
 midswat@204-4942

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 PREPARED BY: KANKANI ANSH  
 DATE: 10/10/2010



## TESTING

Lot ID: 2361934  
Date Received : Jun 07, 2023  
Date Reported : Jun 13, 2023  
Report Number : 2666232-1

Sample Number	2361994-1		
Sampled Date	Jun 07, 2023 11:10 AM		
Sample Description	Group 2 Wastewater WW-CF		
Contract ID	SLI_027_2154	Plot	37.60
Date Analysis Commenced	Jun 06, 2023		
	Site: Timent (Thailand) Corp., Ltd.		

Condition of Sample (APAC/CPA)	Conduct an in vitro embryo, glass and three plastic biobeds; sample containers comply to pretreatment + preparation conditions				
Physical Property	Unit	Lot or Distribution	Result	Qualification / Specification	Method
Water Temperature	°C				
RO/DI (in 20 days) (C)	mg/L	4.0	45.4	5000	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 20th ed., 2017, part 5213.0, part 4500 + D
COD	mg/L	35	1222	5780	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 20th ed., 2017, part 5213.0
Alkal. & Green +	mg/L	2	8	63	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 20th ed., 2017, part 5213.0
pH (in site)			8.0	5.5-8.0	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 20th ed., 2017, part 5213.0
Temperature *	°C		32.3	64	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 20th ed., 2017, part 1904.8
Total Suspended Solids (APAC) at 25.00°C	mg/L	5	42	5200	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 20th ed., 2017, part 5213.0

Guideline: Standard of WWA Sanzui Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant,  
Sampling By: Thomas Jaitis wj20040411-1204-1-5414

Remarks:

LOD	Limit of Detection
LOQ	Lower than LOQ (Limit of Quantification) (LOQ, Limit of Reporting)
Unidentified	Unidentified, not included in scope of Accreditation (ISO/IEC 17025)
Unidentified	The laboratory has been inspected and is qualified for this activity, complying with the ISO/IEC 17025.

Technical Management C. S. S. Approved by K. A. A.  
Nitin Saxena Senior Manager  
msb@rediffmail.com-204-44732  
Senior Manager  
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TESTING

No. 0009  
**Lot ID: 2361958**  
 Date Received : Jun 13, 2023  
 Date Reported : Jun 20, 2023  
 Report Number : 2666296-1

Sample Number	2361950-1		
Sampled Date	Jun 13, 2013 1:15 PM		
Sample Description	Group 2 Wastewater WW-CT		
Contract ID	SL075_2557	Plot	93A/1
Date Analysis Commenced	Jun 14, 2013		
	Site: WPA Corporation Public Limited Company		

Condition of Sample (Analyte)	Container is an amber glass bottle and three plastic bottles, sample containers capped to prevent contamination - preservation standards					
Physical Property	Volatile, some minor, solid and turbid					
Analyte	Unit	LOD	LOQ	Results	Certificate / Specification	Method
Water Testing						
EC2 (15 days at 20 degree C)	mg/L	-	2.0	83.8	6500	Standard Method for the Examination of Water and Wastewater - APHA, AWWA & WEF, 24th ed., 2017 (9152.0)
COD	mg/L	-	25	146	8750	Standard Method for the Examination of Water and Wastewater - APHA, AWWA & WEF, 24th ed., 2017 (5220.0)
Oil & Grease +	mg/L	-	3	6	512	Standard Method for the Examination of Water and Wastewater - APHA, AWWA & WEF, 24th ed., 2017 (5120.0)
pH (in situ)	-	-	7.3	5.9-6.0		Standard Method for the Examination of Water and Wastewater - APHA, AWWA & WEF, 24th ed., 2017 (5120.0)
Temperature +	Degree C	-	32.0	64.5		Standard Method for the Examination of Water and Wastewater - APHA, AWWA & WEF, 24th ed., 2017 (9100 - 1) (5120.0)
Total Suspended Solids Dried at 103°C	mg/L	-	5	21	5200	Standard Method for the Examination of Water and Wastewater - APHA, AWWA & WEF, 24th ed., 2017 (2550.0)

Guideline : Standard of WHA Sarabati Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By : Teemont Puangkoo WastewaterB v-204-rv-7107

Remark :

CO2	Limit of Detection
"	Lower than CO2 (Limit of Quantitation) 1.00 (unit of Reporting)

Additional remark : value not included in scope of accreditation ISO/IEC 17025.  
This document has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]





### Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Plot 7, Bangpakong Road, Bangpakong, Saraburi Thailand 18140  
P/O :  
Project Name : Factory / Monthly  
Project Location : WHA S3



### TESTING

No.0509  
Lot ID: 2361960  
Date Received : Jun 13, 2023  
Date Reported : Jun 20, 2023  
Report Number : 246525-1

Page 1 of 1

Sample Number	2361960-1				
Sampled Date	Jun 13, 2023 2:00 PM				
Sample Description	Group 2 Wastewater WHA-CT				
Contract ID	SL-071-2364	Plus	151-132	Site	WHA Corporation Public Limited Company
Date Analysis Commenced	Jun 14, 2023				
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA) Yellow, some colour, solid and turbid				
Physical Property	Unit	LOQ	Result	Guideline / Specification	Testing Location
Water Testing					
BOD (5 days at 20 degree C)	mg/L	2.0	16.8	\$500	Bangkok
COD	mg/L	25	91	\$750	Bangkok
Oil & Grease *	mg/L	3	5	\$10	Bangkok
pH (at site) *			7.3	5.5-9.0	Bangkok
Temperature *	Degree C		33.0	\$45	Bangkok
Total Suspended Solids Dried at 103-105 Degree C	mg/L	5	28	\$200	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By : Nontawat Pongpang, midcount#1-204-47016  
Remark :  
LOQ : Limit of Quantitation  
\* : Lower than LOQ (Limit of Quantitation) : (LOQ Limit of Reporting)  
Analytical method : None not available to report to guideline BS563C:1925  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Siriruk P.  
Sriiruk Pongpang  
Senior Manager  
midcount#1-204-47017  
Approved by : Karakan Ark  
Karakan Ark  
Senior Manager  
midcount#1-204-47011  
The above mentioned report is the property of the laboratory. It is to be used for the purpose for which it was prepared and for no other purpose without the written consent of the laboratory.  
ADDRESS: 40 Prachasarakul Rd, Prachasarakul, Kru Sai Lumb, Bangkok 10110 Thailand. Phone: +66 2 760 3000 Fax: +66 2 760 3157  
E-MAIL: info@alsglobal.com  
www.alsglobal.com  
PRIORITY SOLUTIONS



### Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Plot 7, Bangpakong Road, Bangpakong, Saraburi Thailand 18140  
P/O :  
Project Name : Factory / Monthly  
Project Location : WHA S3



### TESTING

No.0509  
Lot ID: 2361960  
Date Received : Jun 13, 2023  
Date Reported : Jun 20, 2023  
Report Number : 246525-1

Page 1 of 1

Sample Number	2361960-1				
Sampled Date	Jun 13, 2023 1:45 PM				
Sample Description	Group 2 Wastewater WHA-CT				
Contract ID	SL-071-2364	Plus	151-134	Site	WHA Corporation Public Limited Company
Date Analysis Commenced	Jun 14, 2023				
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA) Yellow, some colour, solid and turbid				
Physical Property	Unit	LOQ	Result	Guideline / Specification	Testing Location
Water Testing					
BOD (5 days at 20 degree C)	mg/L	2.0	61.0	\$500	Bangkok
COD	mg/L	25	191	\$750	Bangkok
Oil & Grease *	mg/L	3	4	\$10	Bangkok
pH (at site) *			7.4	5.5-9.0	Bangkok
Temperature *	Degree C		32.7	\$45	Bangkok
Total Suspended Solids Dried at 103-105 Degree C	mg/L	5	26	\$200	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By : Nontawat Pongpang, midcount#1-204-47016  
Remark :  
LOQ : Limit of Quantitation  
\* : Lower than LOQ (Limit of Quantitation) : (LOQ Limit of Reporting)  
Analytical method : None not available to report to guideline BS563C:1925  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Siriruk P.  
Sriiruk Pongpang  
Senior Manager  
midcount#1-204-47020  
Approved by : Karakan Ark  
Karakan Ark  
Senior Manager  
midcount#1-204-47011  
The above mentioned report is the property of the laboratory. It is to be used for the purpose for which it was prepared and for no other purpose without the written consent of the laboratory.  
ADDRESS: 40 Prachasarakul Rd, Prachasarakul, Kru Sai Lumb, Bangkok 10110 Thailand. Phone: +66 2 760 3000 Fax: +66 2 760 3157  
E-MAIL: info@alsglobal.com  
www.alsglobal.com  
PRIORITY SOLUTIONS



### Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited  
111 Plot 7, Bangpakong Road, Bangpakong, Saraburi Thailand 18140  
P/O :  
Project Name : Factory / Monthly  
Project Location : WHA S3



### TESTING

No.0509  
Lot ID: 2361960  
Date Received : Jun 13, 2023  
Date Reported : Jun 20, 2023  
Report Number : 246525-1

Page 1 of 1

Sample Number	2361960-1				
Sampled Date	Jun 13, 2023 11:10 AM				
Sample Description	Group 2 Wastewater WHA-CT				
Contract ID	SL-068-2357	Plus	27(7)	Site	WHA Quality Co., Ltd.
Location	Part 1				
Date Analysis Commenced	Jun 14, 2023				
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA/USEPA) Yellow, some colour, solid, and no turbid				
Physical Property	Unit	LOQ	Result	Guideline / Specification	Testing Location
Water Testing					
BOD (5 days at 20 degree C)	mg/L	2.0	16.9	\$500	Bangkok
COD	mg/L	25	91	\$750	Bangkok
Oil & Grease *	mg/L	3	3	\$10	Bangkok
pH (at site) *			7.4	5.5-9.0	Bangkok
Temperature *	Degree C		32.0	\$45	Bangkok
Total Suspended Solids Dried at 103-105 Degree C	mg/L	5	14	\$200	Bangkok

Guideline : Standard of WHA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.  
Sampling By : Nontawat Pongpang, midcount#1-204-47017  
Remark :  
LOQ : Limit of Quantitation  
\* : Lower than LOQ (Limit of Quantitation) : (LOQ Limit of Reporting)  
Analytical method : None not available to report to guideline BS563C:1925  
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : Siriruk P.  
Sriiruk Pongpang  
Senior Manager  
midcount#1-204-47020  
Approved by : Karakan Ark  
Karakan Ark  
Senior Manager  
midcount#1-204-47011  
The above mentioned report is the property of the laboratory. It is to be used for the purpose for which it was prepared and for no other purpose without the written consent of the laboratory.  
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