

ภาคผนวก ค

ใบรับรองผลการวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakred Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111885

Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number: 2787510-1

Page 1 of 1

Sample Description	Air Quality											
	นิยามมาตรฐานพื้นที่ (GPS 47P 0698599, 1589315)											
Location	Nitrogen dioxide (ppm)											
Measurement Date	Oct 11, 2023 - Oct 18, 2023											
Measurement by	Teeravut Sukdee											
Time	23111885-1	23111885-2	23111885-3	23111885-4	23111885-5	23111885-6	23111885-7					
	Oct 11, 2023	Oct 12, 2023	Oct 13, 2023	Oct 14, 2023	Oct 15, 2023	Oct 16, 2023	Oct 17, 2023					
10:00 AM - 11:00 AM	0.011	0.022	0.016	0.021	0.012	0.016	0.025					
11:00 AM - 12:00 PM	0.012	0.021	0.015	0.010	0.008	0.020	0.019					
12:00 PM - 01:00 PM	0.012	0.020	0.014	0.010	0.006	0.020	0.017					
01:00 PM - 02:00 PM	0.009	0.023	0.014	0.013	0.013	0.014	0.020					
02:00 PM - 03:00 PM	0.009	0.018	0.009	0.016	0.018	0.018	0.022					
03:00 PM - 04:00 PM	0.006	0.018	0.009	0.020	0.018	0.021	0.025					
04:00 PM - 05:00 PM	0.003	0.015	0.014	0.017	0.015	0.028	0.029					
05:00 PM - 06:00 PM	0.012	0.015	0.020	0.021	0.007	0.032	0.031					
06:00 PM - 07:00 PM	0.023	0.014	0.026	0.025	0.007	0.034	0.039					
07:00 PM - 08:00 PM	0.033	0.011	0.015	0.022	0.024	0.040	0.034					
08:00 PM - 09:00 PM	0.032	0.015	0.020	0.031	0.029	0.035	0.037					
09:00 PM - 10:00 PM	0.029	0.014	0.021	0.026	0.030	0.027	0.039					
10:00 PM - 11:00 PM	0.029	0.014	0.020	0.026	0.029	0.026	0.023					
11:00 PM - 12:00 AM	0.025	0.020	0.013	0.024	0.034	0.031	0.030					
12:00 AM - 01:00 AM	0.026	0.021	0.016	0.022	0.034	0.027	0.022					
01:00 AM - 02:00 AM	0.022	0.023	0.013	0.028	0.024	0.016	0.024					
02:00 AM - 03:00 AM	0.021	0.028	0.011	0.027	0.018	0.014	0.026					
03:00 AM - 04:00 AM	0.024	0.026	0.013	0.029	0.022	0.026	0.029					
04:00 AM - 05:00 AM	0.024	0.022	0.023	0.024	0.020	0.028	0.027					
05:00 AM - 06:00 AM	0.020	0.023	0.026	0.018	0.015	0.027	0.028					
06:00 AM - 07:00 AM	0.016	0.023	0.023	0.017	0.021	0.030	0.026					
07:00 AM - 08:00 AM	0.025	0.020	0.023	0.021	0.030	0.036	0.029					
08:00 AM - 09:00 AM	0.028	0.024	0.026	0.024	0.023	0.035	0.030					
09:00 AM - 10:00 AM	0.028	0.023	0.024	0.018	0.018	0.030	0.025					
Average	0.020	0.020	0.018	0.021	0.020	0.026	0.027					
1hr - Maximum	0.033	0.028	0.026	0.031	0.034	0.040	0.039					
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170					

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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S: Reports_Air SOXNOx.rpt (2:36PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakred Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111885

Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number: 2817136-1

Page 1 of 1

Sample Description	Air Quality											
	นิยามมาตรฐานพื้นที่ (GPS 47P 0697239, 1589433)											
Location	Nitrogen dioxide (ppm)											
Measurement Date	Oct 11, 2023 - Oct 18, 2023											
Measurement by	Teeravut Sukdee											
Time	23111885-8	23111885-9	23111885-10	23111885-11	23111885-12	23111885-13	23111885-14					
	Oct 11, 2023	Oct 12, 2023	Oct 13, 2023	Oct 14, 2023	Oct 15, 2023	Oct 16, 2023	Oct 17, 2023					
11:00 AM - 12:00 PM	0.008	0.014	0.009	0.006	0.003	0.004	0.003					
12:00 PM - 01:00 PM	0.006	0.009	0.006	0.004	0.002	0.002	0.003					
01:00 PM - 02:00 PM	0.008	0.002	0.004	0.005	0.004	0.002	0.003					
02:00 PM - 03:00 PM	0.007	0.003	0.002	0.006	0.006	0.003	0.011					
03:00 PM - 04:00 PM	0.008	0.007	0.003	0.003	0.009	0.005	0.006					
04:00 PM - 05:00 PM	0.006	0.010	0.009	0.004	0.010	0.011	0.007					
05:00 PM - 06:00 PM	0.014	0.016	0.010	0.002	0.008	0.017	0.008					
06:00 PM - 07:00 PM	0.019	0.024	0.011	0.003	0.014	0.015	0.012					
07:00 PM - 08:00 PM	0.013	0.024	0.012	0.006	0.019	0.018	0.023					
08:00 PM - 09:00 PM	0.018	0.021	0.019	0.007	0.018	0.016	0.027					
09:00 PM - 10:00 PM	0.021	0.019	0.013	0.007	0.017	0.012	0.023					
10:00 PM - 11:00 PM	0.017	0.018	0.008	0.006	0.018	0.014	0.013					
11:00 PM - 12:00 AM	0.016	0.017	0.011	0.007	0.029	0.020	0.016					
12:00 AM - 01:00 AM	0.017	0.016	0.010	0.009	0.026	0.020	0.020					
01:00 AM - 02:00 AM	0.013	0.012	0.011	0.019	0.016	0.012	0.018					
02:00 AM - 03:00 AM	0.012	0.015	0.009	0.024	0.011	0.010	0.017					
03:00 AM - 04:00 AM	0.014	0.015	0.008	0.019	0.014	0.011	0.020					
04:00 AM - 05:00 AM	0.016	0.013	0.012	0.009	0.009	0.014	0.015					
05:00 AM - 06:00 AM	0.014	0.013	0.012	0.003	0.009	0.010	0.020					
06:00 AM - 07:00 AM	0.014	0.011	0.010	0.003	0.017	0.014	0.023					
07:00 AM - 08:00 AM	0.018	0.012	0.012	0.012	0.012	0.012	0.022					
08:00 AM - 09:00 AM	0.012	0.009	0.014	0.015	0.011	0.014	0.018					
09:00 AM - 10:00 AM	0.015	0.007	0.016	0.012	0.008	0.007	0.012					
10:00 AM - 11:00 AM	0.014	0.008	0.010	0.006	0.006	0.005	0.008					
Average	0.013	0.014	0.010	0.008	0.012	0.011	0.015					
1hr - Maximum	0.021	0.024	0.019	0.024	0.029	0.026	0.027					
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170					

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client: WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamhe, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Report Number: 2817138-1
Date Reported : Oct 26, 2023
Date Received : Oct 19, 2023
Lot ID: 23111885

Page 1 of 1

Sample Description		Air Quality							
Location	Parameter	พ. จ.พ.							

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakred Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111886

Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number: 2787511-1

Page 1 of 1

Sample Description		Air Quality											
Location		สำนักงานอุตสาหกรรม (GPS 47P 0698599, 1589315)											
Parameter		Sulfur Dioxide (ppm)											
Measurement Date		Oct 11, 2023 - Oct 18, 2023											
Measurement by		Teeravut Sukdee											
Time		23111886-1	23111886-2	23111886-3	23111886-4	23111886-5	2311886-6	2311886-7					
		Oct 11, 2023	Oct 12, 2023	Oct 13, 2023	Oct 14, 2023	Oct 15, 2023	Oct 16, 2023	Oct 17, 2023					
10:00 AM - 11:00 AM		0.002	0.003	0.003	0.004	0.002	0.003	0.005					
11:00 AM - 12:00 PM		0.002	0.003	0.002	0.003	0.004	0.003	0.003					
12:00 PM - 01:00 PM		0.002	0.003	0.003	0.008	0.003	0.005	0.002					
01:00 PM - 02:00 PM		0.001	0.005	0.003	0.003	0.004	0.004	0.002					
02:00 PM - 03:00 PM		<0.001	0.006	0.003	0.003	0.003	0.003	0.002					
03:00 PM - 04:00 PM		<0.001	0.004	0.002	0.003	0.002	0.002	0.002					
04:00 PM - 05:00 PM		<0.001	0.002	0.003	0.003	0.002	0.002	0.002					
05:00 PM - 06:00 PM		0.005	0.001	0.004	0.003	0.003	0.003	0.002					
06:00 PM - 07:00 PM		0.001	<0.001	0.004	0.003	0.002	0.004	0.002					
07:00 PM - 08:00 PM		<0.001	0.001	0.001	0.002	0.001	0.004	0.001					
08:00 PM - 09:00 PM		<0.001	0.001	<0.001	0.002	0.001	0.003	<0.001					
09:00 PM - 10:00 PM		<0.001	<0.001	<0.001	0.002	<0.001	0.002	<0.001					
10:00 PM - 11:00 PM		<0.001	<0.001	0.002	0.002	<0.001	0.002	<0.001					
11:00 PM - 12:00 AM		0.001	<0.001	0.002	0.002	<0.001	0.002	<0.001					
12:00 AM - 01:00 AM		0.002	<0.001	0.002	0.002	0.002	0.002	<0.001					
01:00 AM - 02:00 AM		0.002	<0.001	0.002	0.002	0.002	0.002	<0.001					
02:00 AM - 03:00 AM		0.002	<0.001	0.002	0.002	0.002	0.002	<0.001					
03:00 AM - 04:00 AM		0.002	<0.001	0.002	0.004	0.001	0.002	<0.001					
04:00 AM - 05:00 AM		0.002	<0.001	0.002	0.007	0.001	0.001	<0.001					
05:00 AM - 06:00 AM		0.001	<0.001	0.002	0.004	0.001	0.001	<0.001					
06:00 AM - 07:00 AM		<0.001	0.001	0.001	0.003	0.001	0.001	<0.001					
07:00 AM - 08:00 AM		<0.001	0.001	0.001	0.002	0.001	0.001	<0.001					
08:00 AM - 09:00 AM		0.001	0.003	0.005	0.002	0.002	0.001	<0.001					
09:00 AM - 10:00 AM		0.002	0.003	0.006	0.003	0.003	0.004	<0.001					
Average		0.001	0.002	0.002	0.003	0.002	0.002	0.001					
1hr - Maximum		0.005	0.006	0.006	0.008	0.004	0.005	0.005					
Standard 1hr - Average		0.3	0.3	0.3	0.3	0.3	0.3	0.3					
Standard 24 hrs - Average		0.12	0.12	0.12	0.12	0.12	0.12	0.12					
Standard		: Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).											
Reference Method		: US EPA Method Part 53 and 58											

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakred Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111886

Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number: 2817139-1

Page 1 of 1

Sample Description		Air Quality											
Location		ร. ๓๒๒๒											



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111886
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number: 2817141-1

Page 1 of 1

Sample Description		Air Quality									
Location		ร. ตราทอง กรุงเทพมหานคร (GPS 47P 0698465, 1594331)									
Parameter		Sulfur Dioxide (ppm)									
Measurement Date		Oct 11, 2023 - Oct 18, 2023									
Measurement by		Teerawat Sukdee									
Time		23111886-15	23111886-16	23111886-17	23111886-18	23111886-19	23111886-20	23111886-21			
		Oct 11, 2023	Oct 12, 2023	Oct 13, 2023	Oct 14, 2023	Oct 15, 2023	Oct 16, 2023	Oct 17, 2023			
01:00 PM - 02:00 PM	0.002	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	0.001	0.001	
02:00 PM - 03:00 PM	0.002	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
03:00 PM - 04:00 PM	0.002	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
04:00 PM - 05:00 PM	0.002	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
05:00 PM - 06:00 PM	0.001	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
06:00 PM - 07:00 PM	0.001	<0.001	<0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
07:00 PM - 08:00 PM	0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
08:00 PM - 09:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
09:00 PM - 10:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
10:00 PM - 11:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
11:00 PM - 12:00 AM	0.001	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
12:00 AM - 01:00 AM	0.001	0.001	0.001	<0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
01:00 AM - 02:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
02:00 AM - 03:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
03:00 AM - 04:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
04:00 AM - 05:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
05:00 AM - 06:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
06:00 AM - 07:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
07:00 AM - 08:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
08:00 AM - 09:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
09:00 AM - 10:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
10:00 AM - 11:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
11:00 AM - 12:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
12:00 PM - 01:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
Average	0.001	0.001	0.001	0.001	0.001	0.001	<0.001	0.001	<0.001	0.001	
1hr - Maximum	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	
Standard	: Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).										
Reference Method	: US EPA Method Part 53 and 58										

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111886
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number: 2817145-1

Page 1 of 1

Sample Description		Air Quality											
Location		๕๕. ฝายเขื่อนลำนานา ตำบลบ้านนาอรัญผา (GPS 47P 0700733, 1590964)											
Parameter	Measurement Date	Sulfur Dioxide (ppm)											
Measurement by		Teeravit Sukdee											
Time		23111886-22	23111886-23	23111886-24	23111886-25	23111886-26	23111886-27	23111886-28					
		Oct 11, 2023	Oct 12, 2023	Oct 13, 2023	Oct 14, 2023	Oct 15, 2023	Oct 16, 2023	Oct 17, 2023					
12:00 PM - 01:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
01:00 PM - 02:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
02:00 PM - 03:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
03:00 PM - 04:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
04:00 PM - 05:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
05:00 PM - 06:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
06:00 PM - 07:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
07:00 PM - 08:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
08:00 PM - 09:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
09:00 PM - 10:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
10:00 PM - 11:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
11:00 PM - 12:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
12:00 AM - 01:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
01:00 AM - 02:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
02:00 AM - 03:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
03:00 AM - 04:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
04:00 AM - 05:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
05:00 AM - 06:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
06:00 AM - 07:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
07:00 AM - 08:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
08:00 AM - 09:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
09:00 AM - 10:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
10:00 AM - 11:00 AM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
11:00 AM - 12:00 PM		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
Average		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
1hr - Maximum		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
Standard 1hr - Average		0.3	0.3	0.3	0.3	0.3	0.3	0.3					
Standard 24 hrs - Average		0.12	0.12	0.12	0.12	0.12	0.12	0.12					
Standard Reference Method : US EPA Method Part 53 and 58		Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).											



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SILL

Lot ID: 23111887
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2787513-1

TESTING
No.0009

Page 1 of 1

Sample Description	Air Quality	Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Particulate Matter (PM-10) (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
Location บึงน้ำจืดบ้านนาหมื่น	บึงน้ำจืดบ้านนาหมื่น						
Date Analysis Commenced Oct 20, 2023							
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag							
Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Particulate Matter (PM-10) (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)		
23111887-22	Oct 11 - Oct 12, 2023	0.117	0.049	757	32		
23111887-23	Oct 12 - Oct 13, 2023	0.101	0.054	757	32		
23111887-24	Oct 13 - Oct 14, 2023	0.132	0.057	757	32		
23111887-25	Oct 14 - Oct 15, 2023	0.167	0.075	757	33		
23111887-26	Oct 15 - Oct 16, 2023	0.136	0.065	757	33		
23111887-27	Oct 16 - Oct 17, 2023	0.126	0.061	757	32		
23111887-28	Oct 17 - Oct 18, 2023	0.161	0.082	757	33		
Guideline		0.33	0.12	-	-		

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Teeravut Sukdee

Remark :

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

The above results are valid only for the analyzed sample(s) as indicated in the report. The results are not valid for any other sample(s) without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

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S:\Reports_Air Ambient\7Days rpt (11:00PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SILL

Lot ID: 23111887
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819421-1

TESTING
No.0009

Page 1 of 1

Sample Description	Air Quality	Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Particulate Matter (PM-10) (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
Location บึงน้ำจืดบ้านนาหมื่น	บึงน้ำจืดบ้านนาหมื่น						
Date Analysis Commenced Oct 20, 2023							
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag							
Sample Number	Sampled Date	Total Suspended Particulate (mg/m ³)	Particulate Matter (PM-10) (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)		
23111887-1	Oct 11 - Oct 12, 2023	0.102	0.041	757	32		
23111887-2	Oct 12 - Oct 13, 2023	0.106	0.051	757	32		
23111887-3	Oct 13 - Oct 14, 2023	0.083	0.040	757	32		
23111887-4	Oct 14 - Oct 15, 2023	0.106	0.047	757	32		
23111887-5	Oct 15 - Oct 16, 2023	0.086	0.042	757	32		
23111887-6	Oct 16 - Oct 17, 2023	0.099	0.048	757	32		
23111887-7	Oct 17 - Oct 18, 2023	0.111	0.063	757	32		
Guideline		0.33	0.12	-	-		

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Teeravut Sukdee

Remark :

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

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Approved by

Savanya C.

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S:\Reports_Air Ambient\7Days rpt (11:00PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54230009

Project Name : Monitoring

Lot ID: 23111887

Date Received : Oct 19, 2023

Date Reported : Oct 27, 2023

Report Number : 2819423-1

Page 1 of 1

Sample Description		Air Quality			
Location	Address	City	State		
Date Analysis Commenced	Oct 20, 2023	Oct 20, 2023	Oct 20, 2023		
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (ng/m3)	Particulate Matter (PM-10) (ng/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23111887-15	Oct 11 - Oct 12, 2023	0.052	0.024	757	32
23111887-16	Oct 12 - Oct 13, 2023	0.057	0.032	757	32
23111887-17	Oct 13 - Oct 14, 2023	0.056	0.029	757	32
23111887-18	Oct 14 - Oct 15, 2023	0.063	0.034	757	33
23111887-19	Oct 15 - Oct 16, 2023	0.071	0.038	757	33
23111887-20	Oct 16 - Oct 17, 2023	0.065	0.037	757	32
23111887-21	Oct 17 - Oct 18, 2023	0.096	0.053	757	33
Guideline		0.33	0.12		

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Teeravut Sukdee

Remark :

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

Savanya C.

Approved by

Saranya Chalermthamrong
Scientist (4)

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S:\Reports\ Air Ambient 7Days.rpt (11:01 PM)



Analysis / Test Report

Client : WHA Saraburi Industrial and Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111888
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number : 2787512-1

Page 1 of 2

Sample Number : 23111888-1 to 7
Parameter : Wind Speed / Wind Direction
Location : บ้านท่าช้างบ้านไร่ (GPS 47P 0698599, 1589315)
Sampling Date : Oct 11 - Oct 18, 2023
Sampling by : Teeravut Sukdee

Time		Oct 11 - Oct 12, 2023		Oct 12 - Oct 13, 2023		Oct 13 - Oct 14, 2023		Oct 14 - Oct 15, 2023		Oct 15 - Oct 16, 2023		Oct 16 - Oct 17, 2023		Oct 17 - Oct 18, 2023								
		WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)							
	10:00 AM - 11:00 AM	0.2	-	0.3	65.0	ENE	2.5	55.0	NE	0.6	55.0	NE	0.4	5.0	NE	0.5	68.0	ENE	0.3	353.0	N	
	11:00 AM - 12:00 PM	0.4	68.0	ENE	1.6	53.0	NE	3.1	11.0	N	1.7	359.0	N	0.1	-	-	0.0	-	-	0.9	0.0	N
	12:00 PM - 01:00 PM	0.0	-	-	1.2	327.0	NNW	1.6	3.0	N	0.3	33.0	NNE	0.8	344.0	NNW	0.4	82.0	E	1.1	215.0	SW
	01:00 PM - 02:00 PM	0.0	-	-	0.0	-	-	3.0	350.0	N	0.0	-	-	0.2	-	-	1.3	89.0	E	0.0	-	-
	02:00 PM - 03:00 PM	0.0	-	-	1.2	3.0	N	1.5	5.0	N	0.5	352.0	N	0.0	-	-	2.2	12.0	NNE	0.3	35.0	NE
	03:00 PM - 04:00 PM	0.0	-	-	0.8	98.0	E	0.6	1.0	N	0.7	359.0	N	0.0	-	-	0.4	357.0	N	0.0	-	-
	04:00 PM - 05:00 PM	2.2	5.0	N	0.0	-	-	0.5	22.0	NNE	0.0	-	-	0.2	-	-	0.1	-	-	1.0	0.0	N
	05:00 PM - 06:00 PM	0.6	256.0	WSW	0.0	-	-	0.6	78.0	ENE	0.0	-	-	1.8	3.0	N	0.0	-	-	0.0	-	-
	06:00 PM - 07:00 PM	0.3	356.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.5	346.0	NNW	0.0	-	-	0.0	-	-
	07:00 PM - 08:00 PM	1.0	343.0	NNW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
	08:00 PM - 09:00 PM	0.6	63.0	ENE	0.0	-	-	1.2	359.0	N	0.3	356.0	N	0.9	309.0	NW	0.0	-	-	0.0	-	-
	09:00 PM - 10:00 PM	1.5	355.0	N	0.0	-	-	0.9	114.0	ESE	0.8	10.0	N	0.2	-	-	0.3	3.0	N	0.0	-	-
	10:00 PM - 11:00 PM	1.2	2.0	N	0.0	-	-	1.4	7.0	N	0.1	-	-	1.2	30.0	NNE	0.0	-	-	0.0	-	-
	11:00 PM - 12:00 AM	1.3	0.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.6	358.0	N	0.0	-	-	0.0	-	-
	12:00 AM - 01:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	3.0	N	0.0	-	-
	01:00 AM - 02:00 AM	0.2	-	-	0.0	-	-	0.7	74.0	ENE	0.0	-	-	0.0	-	-	0.3	25.0	NNE	0.0	-	-
	02:00 AM - 03:00 AM	1.0	344.0	NNW	0.0	-	-	0.0	-	-	0.4	52.0	NE	0.3	33.0	NNE	0.0	-	-	0.0	-	-
	03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.8	359.0	N	0.6	32.0	NNE	0.0	-	-	0.0	-	-	0.0	-	-
	04:00 AM - 05:00 AM	0.0	-	-	0.5	8.0	N	0.8	350.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
	05:00 AM - 06:00 AM	0.0	-	-	0.3	357.0	N	1.9	351.0	N	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
	06:00 AM - 07:00 AM	0.5	33.0	NNE	1.0	359.0	N	0.5	359.0	N	0.0	-	-	0.3	348.0	NNW	0.5	33.0	NNE	0.0	-	-
	07:00 AM - 08:00 AM	1.2	0.0	N	1.1	359.0	N	1.3	26.0	NNE	0.6	356.0	N	0.6	35.0	N	0.1	-	-	0.3	49.0	NE
	08:00 AM - 09:00 AM	0.7	356.0	N	0.8	48.0	NE	0.0	-	-	0.2	-	-	1.6	52.0	NE	0.4	17.0	NNE	0.5	80.0	E
	09:00 AM - 10:00 AM	0.0	-	-	2.1	355.0	N	0.4	339.0	NNW	0.2	-	-	0.8	69.0	ENE	0.0	-	-	0.1	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

The above results are valid only for the wind speed and direction (WS and WD) as indicated in this report. No part of this report or any data may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Sarayuht Jitranont
Assistant General Manager

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Approved by

Sarayuht Jitranont
Assistant General Manager

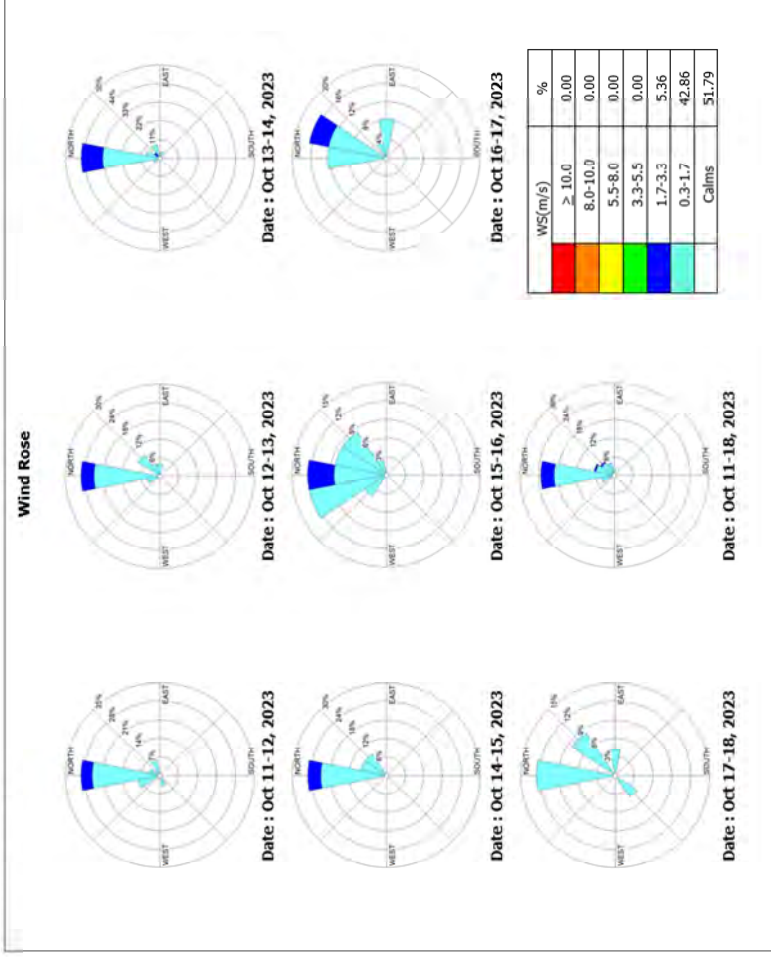


Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111888
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number : 2787512-1

Page 2 of 2





Analysis / Test Report

Client : WHA Saraburi Industrial and Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111888
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number : 2787512-1

Page 1 of 2

Sample Number		Wind Speed / Wind Direction		GPS 47P 0697239, 1589433																		
Parameter		Location		Tetrant Sukdee																		
Sampling Date		Oct 11 - Oct 18, 2023		Oct 11 - Oct 12, 2023		Oct 12 - Oct 13, 2023		Oct 13 - Oct 14, 2023		Oct 14 - Oct 15, 2023		Oct 15 - Oct 16, 2023		Oct 16 - Oct 17, 2023		Oct 17 - Oct 18, 2023						
Sampling by		WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD	WS	WD					
		(m/s)	(deg)	(m/s)	(deg)	(m/s)	(deg)	(m/s)	(deg)	(m/s)	(deg)	(m/s)	(deg)	(m/s)	(deg)	(m/s)	(deg)					
11:00 AM - 12:00 PM		1.5	8.0	N	0.2	-	-	1.7	99.0	E	1.4	81.0	E	0.8	270.0	W	1.9	109.0	ESE	0.3	84.0	E
12:00 PM - 01:00 PM		1.3	292.0	NNW	1.2	348.0	NNW	1.0	74.0	ENE	1.3	92.0	E	2.4	337.0	NNW	0.8	120.0	ESE	0.0	-	-
01:00 PM - 02:00 PM		1.0	274.0	W	0.4	321.0	NW	0.9	40.0	NE	1.2	241.0	WSW	0.7	296.0	WNW	0.9	3.0	N	0.0	-	-
02:00 PM - 03:00 PM		0.7	217.0	SW	1.5	121.0	ESE	2.4	97.0	E	0.9	77.0	ENE	0.7	61.0	ENE	1.1	67.0	ENE	0.4	100.0	E
03:00 PM - 04:00 PM		0.3	135.0	SE	1.5	167.0	SSE	2.2	82.0	E	1.9	121.0	ESE	1.7	94.0	E	1.9	78.0	ENE	0.3	164.0	SSE
04:00 PM - 05:00 PM		1.0	81.0	E	0.2	-	-	1.5	77.0	ENE	0.8	291.0	WNW	1.7	193.0	SSW	1.8	159.0	SSE	0.2	-	-
05:00 PM - 06:00 PM		0.2	-	-	0.9	180.0	S	1.9	91.0	E	0.6	359.0	N	0.6	116.0	ESE	1.6	113.0	ESE	0.0	-	-
06:00 PM - 07:00 PM		0.0	-	-	0.0	-	-	0.7	130.0	SE	0.3	334.0	NNW	0.4	118.0	ESE	2.0	104.0	ESE	0.0	-	-
07:00 PM - 08:00 PM		0.4	79.0	E	0.0	-	-	0.3	100.0	E	1.3	80.0	E	0.9	170.0	S	2.8	83.0	E	0.3	152.0	SSE
08:00 PM - 09:00 PM		0.7	69.0	E	0.0	-	-	0.0	79.0	E	0.1	-	-	0.0	329.0	N	2.6	65.0	E	0.0	-	-
09:00 PM - 10:00 PM		0.6	85.0	E	0.0	-	-	0.6	96.0	E	0.1	-	-	0.3	87.0	E	0.2	-	-	0.9	355.0	N
10:00 PM - 11:00 PM		0.1	-	-	0.0	-	-	0.7	98.0	E	1.0	359.0	N	1.1	100.0	E	0.7	114.0	ESE	0.6	116.0	ESE
11:00 PM - 12:00 AM		0.1	-	-	0.0	-	-	1.3	88.0	E	0.2	-	-	0.9	99.0	E	2.2	90.0	E	0.9	160.0	SSE
12:00 AM - 01:00 AM		0.2	-	-	0.0	-	-	0.4	87.0	E	0.2	-	-	0.4	210.0	SSW	1.0	74.0	ENE	0.8	171.0	S
01:00 AM - 02:00 AM		0.6	345.0	NNW	0.0	-	-	0.6	344.0	NNW	1.2	101.0	E	2.0	162.0	SSE	0.0	-	-	1.2	290.0	WNW
02:00 AM - 03:00 AM		0.3	37.0	NE	0.0	-	-	0.0	-	-	0.8	3.0	N	1.0	359.0	N	0.2	-	-	1.0	70.0	ENE
03:00 AM - 04:00 AM		0.7	147.0	SSE	0.0	-	-	0.5	343.0	NNW	0.0	-	-	0.4	92.0	E	0.6	359.0	N	1.0	79.0	E
04:00 AM - 05:00 AM		0.1	-	-	0.2	-	-	0.0	-	-	0.1	-	-	0.9	320.0	NW	0.8	359.0	N	0.9	96.0	E
05:00 AM - 06:00 AM		0.5	45.0	NE	0.5	80.0	E	0.3	62.0	ENE	0.4	40.0	NE	0.3	359.0	N	1.9	309.0	NW	0.9	98.0	E
06:00 AM - 07:00 AM		0.5	16.0	NNE	1.1	79.0	E	0.4	101.0	E	0.8	80.0	E	0.9	359.0	N	1.4	263.0	W	0.7	100.0	E
07:00 AM - 08:00 AM		0.3	81.0	E	1.7	139.0	SE	0.4	344.0	NNW	0.9	122.0	ESE	0.4	359.0	N	2.4	343.0	NNW	0.6	107.0	ESE
08:00 AM - 09:00 AM		0.2	-	-	1.4	103.0	ESE	0.9	286.0	WNW	2.8	111.0	ESE	0.4	99.0	E	1.7	33.0	NNE	0.4	109.0	ESE
09:00 AM - 10:00 AM		1.5	261.0	W	1.4	90.0	E	1.8	55.0	NE	2.7	95.0	E	2.9	359.0	N	0.5	259.0	W	0.4	97.0	E
10:00 AM - 11:00 AM		0.6	77.0	ENE	1.4	29.0	NNE	1.1	86.0	E	0.8	303.0	WNW	1.4	359.0	N	0.0	-	-	0.4	78.0	ENE

Reference Method : Cup Anemometer & Anodized Aluminum Vane Method

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuht Jitranont
Assistant General Manager

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Approved by

Sarayuht Jitranont
Assistant General Manager

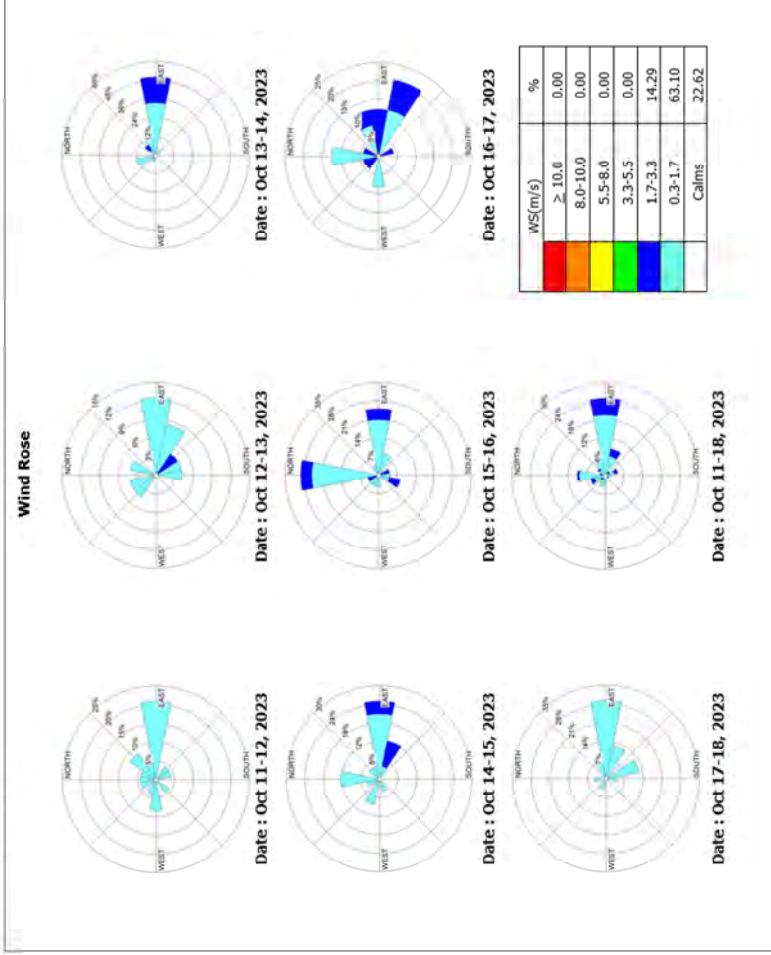


Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111888
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number : 2787512-1

Page 2 of 2





Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakradi Road, Nongplakradi, Saraburi, Thailand

P/O : 54230009

Project Name : Monitoring

Project Location : WHA SAIL

Page 1 of 2

Wind Rose

Date : Oct 11-12, 2023

Date : Oct 12-13, 2023

Date : Oct 13-14, 2023

Date : Oct 14-15, 2023

Date : Oct 15-16, 2023

Date : Oct 16-17, 2023

Date : Oct 17-18, 2023

Date : Oct 11-18, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.00
1.7-3.3	8.93
0.3-1.7	74.41
Calms	16.67

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager

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Analysis / Test Report

Client : WHA Saraburi Industrial and Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhachae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111888
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number : 2787512-1

Page 1 of 2

Sample Number 23111888-22 to 28

Parameter Wind Speed / Wind Direction

Location ๙๕. ไร่สวนอุตสาหกรรมบ้านนาหนองพลับ (GPS 47° 07'00.733, 15°09'05.4)

Sampling Date Oct 11 - Oct 18, 2023

Sampling by Teeravut Sukdee

Time	Oct 11 - Oct 12, 2023	Oct 12 - Oct 13, 2023	Oct 13 - Oct 14, 2023	Oct 14 - Oct 15, 2023	Oct 15 - Oct 16, 2023	Oct 16 - Oct 17, 2023	Oct 17 - Oct 18, 2023
WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)	WS (m/s)	WD (deg)
12:00 PM - 01:00 PM	0.6 268.0 W	0.0 -	0.7 19.0 WNE	0.0 -	0.4 359.0 N	0.0 -	0.0 -
01:00 PM - 02:00 PM	0.4 143.0 SE	0.0 -	0.0 -	0.2 -	0.0 -	0.0 -	0.4 268.0 W
02:00 PM - 03:00 PM	0.4 113.0 ESE	0.0 -	0.0 -	0.4 11.0 N	0.3 15.0 NNE	0.0 -	0.6 8.0 N
03:00 PM - 04:00 PM	0.2 -	0.0 -	0.7 4.0 N	0.4 9.0 N	0.0 -	0.0 -	0.9 359.0 N
04:00 PM - 05:00 PM	0.0 -	0.0 -	0.6 0.0 N	0.7 0.0 N	0.9 13.0 SE	0.6 24.0 NNE	1.0 359.0 N
05:00 PM - 06:00 PM	0.0 -	0.0 -	0.4 81.0 E	0.0 -	1.0 139.0 SE	0.7 2.0 N	0.6 359.0 N
06:00 PM - 07:00 PM	0.0 -	0.0 -	0.3 81.0 E	0.0 -	0.0 -	0.4 22.0 NNE	0.4 359.0 N
07:00 PM - 08:00 PM	0.0 -	0.0 -	0.9 81.0 E	0.0 -	0.0 -	0.4 7.0 N	0.0 -
08:00 PM - 09:00 PM	0.9 284.0 WNW	0.0 -	0.0 -	0.0 -	0.2 -	0.0 -	0.0 -
09:00 PM - 10:00 PM	0.7 204.0 WNW	0.0 -	0.0 -	0.0 -	0.0 -	0.0 -	0.4 329.0 N
10:00 PM - 11:00 PM	0.4 284.0 WNW	0.0 -	0.4 359.0 N	0.0 -	0.0 -	0.3 4.0 N	0.2 -
11:00 PM - 12:00 AM	0.2 -	0.0 -	0.4 359.0 N	0.0 -	0.6 139.0 SE	0.9 4.0 N	0.2 -
12:00 AM - 01:00 AM	0.0 -	0.0 -	0.2 -	0.0 -	0.4 139.0 SE	1.0 4.0 N	0.0 -
01:00 AM - 02:00 AM	0.0 -	0.0 -	0.7 359.0 N	0.9 0.0 N	0.4 139.0 SE	1.1 4.0 N	0.0 -
02:00 AM - 03:00 AM	0.0 -	0.0 -	0.0 -	0.8 0.0 N	0.2 -	0.0 -	0.0 -
03:00 AM - 04:00 AM	1.0 284.0 WNW	0.0 -	0.9 359.0 N	0.4 0.0 N	0.7 140.0 SE	0.7 4.0 N	0.0 -
04:00 AM - 05:00 AM	0.9 284.0 WNW	0.0 -	0.0 -	0.4 0.0 N	0.9 139.0 SE	0.0 -	0.0 -
05:00 AM - 06:00 AM	0.0 -	0.0 -	0.0 -	0.2 -	0.0 -	0.0 -	0.0 -
06:00 AM - 07:00 AM	0.0 -	0.0 -	1.0 359.0 N	0.0 -	0.9 140.0 SE	0.0 -	0.0 -
07:00 AM - 08:00 AM	0.0 -	0.0 -	1.1 359.0 N	0.0 -	0.6 140.0 SE	0.0 -	0.7 22.0 NNE
08:00 AM - 09:00 AM	0.0 -	0.0 -	0.9 268.0 W	0.6 0.0 N	0.0 -	0.0 -	0.4 12.0 NNE
09:00 AM - 10:00 AM	1.4 277.0 W	0.0 -	0.7 130.0 SE	0.7 359.0 N	0.0 -	0.0 -	0.2 -
10:00 AM - 11:00 AM	0.0 -	0.3 12.0 NNE	0.4 250.0 WSW	0.6 350.0 N	0.0 -	0.0 -	0.0 -
11:00 AM - 12:00 PM	0.2 -	0.6 9.0 N	0.2 -	0.4 0.0 N	0.0 -	0.5 262.0 W	0.2 -

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuht Jitranont
Assistant General Manager

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Sarayuht Jitranont
Assistant General Manager

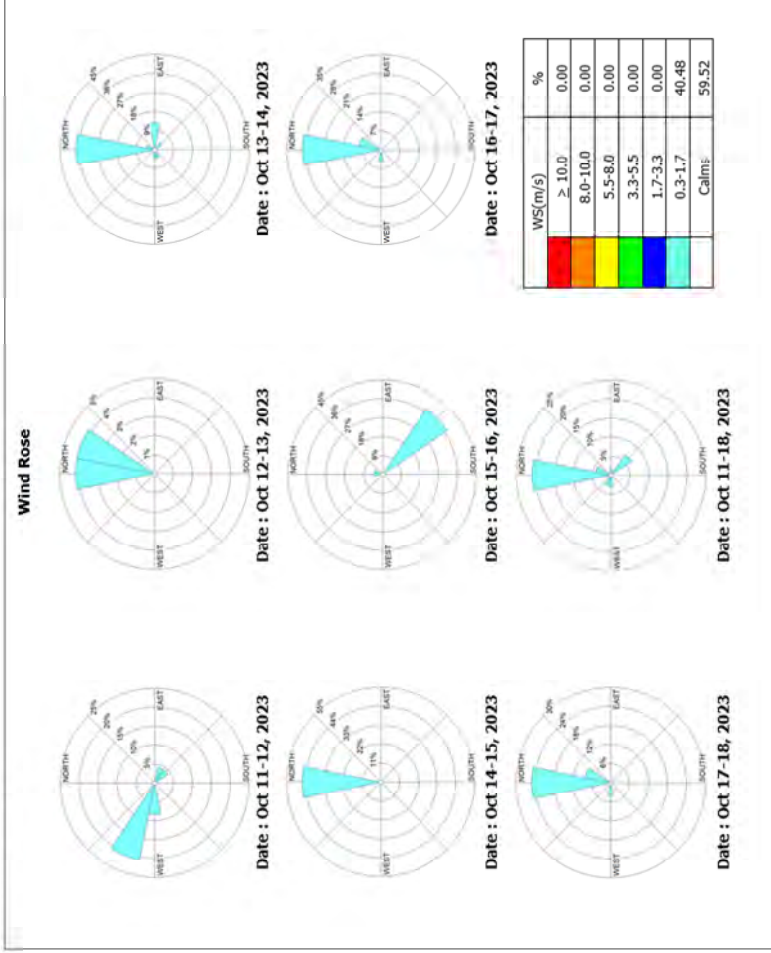


Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhachae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111888
Date Received : Oct 19, 2023
Date Reported : Oct 26, 2023
Report Number : 2787512-1

Page 2 of 2



ภาคผนวก ค-2

ระดับเสียงในบรรยากาศโดยทั่วไป



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 5423009

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 23111914

Date Received : Oct 19, 2023

Date Reported : Oct 27, 2023

Report Number: 2819398-1

Page 1 of 1

Sample Number 23111914-1

Parameter Noise (Leq 24 hrs)

Location บ้านเลขที่ 7 หมู่ 7 ตำบลหนองปลาไหล (GPS 47P 06985599, 1589315)

Measurement Date Oct 14 - Oct 15, 2023

Measurement by Teeravut Sukdee

Sound Level meter Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.8	82.2	52.1
11:00 AM - 12:00 PM	55.7	71.5	52.6
12:00 PM - 01:00 PM	55.9	78.0	52.9
01:00 PM - 02:00 PM	55.1	69.4	52.3
02:00 PM - 03:00 PM	55.9	72.8	53.1
03:00 PM - 04:00 PM	57.7	76.6	53.8
04:00 PM - 05:00 PM	56.9	73.4	53.6
05:00 PM - 06:00 PM	58.4	74.8	54.6
06:00 PM - 07:00 PM	57.7	75.3	55.4
07:00 PM - 08:00 PM	60.5	78.6	57.4
08:00 PM - 09:00 PM	61.6	76.6	59.8
09:00 PM - 10:00 PM	61.3	73.4	60.1
10:00 PM - 11:00 PM	60.1	70.2	58.8
11:00 PM - 12:00 AM	59.2	77.9	57.3
12:00 AM - 01:00 AM	57.9	72.8	55.8
01:00 AM - 02:00 AM	56.3	76.1	54.8
02:00 AM - 03:00 AM	55.8	76.4	54.3
03:00 AM - 04:00 AM	54.8	66.8	53.9
04:00 AM - 05:00 AM	54.2	65.0	53.1
05:00 AM - 06:00 AM	54.7	67.7	53.4
06:00 AM - 07:00 AM	56.3	74.6	53.9
07:00 AM - 08:00 AM	59.8	75.5	55.0
08:00 AM - 09:00 AM	58.8	78.5	54.4
09:00 AM - 10:00 AM	55.5	70.8	53.0
Leq Average 24 hrs. (dB(A))	57.9		
Lmax (dB(A))		82.2	
L90 (dB(A))			53.9
Ldn (dB(A))	63.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรมาณผลการวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมอนามัย กระทรวงสาธารณสุข
2. ปรมาณการตรวจวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมอนามัย กระทรวงสาธารณสุข และสำนักงานสิ่งแวดล้อมแห่งชาติ
โดย พ.ศ. 2548

Technical Management

Saranya Chalemtanrong

Scientist (4)

Approved by

Supt S.

Supot Salameh

Section Head

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S:\Reports_Air Noise\pr (9:56PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 5423009

Project Name : Monitoring

Project Location : WHA SIL

Lot ID: 23111914

Date Received : Oct 19, 2023

Date Reported : Oct 27, 2023

Report Number: 2819399-1

Page 1 of 1

Sample Number 23111914-2

Parameter Noise (Leq 24 hrs)

Location บ้านเลขที่ 7 หมู่ 7 ตำบลหนองปลาไหล (GPS 47P 06985599, 1589315)

Measurement Date Oct 15 - Oct 16, 2023

Measurement by Teeravut Sukdee

Sound Level meter Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.4	72.2	53.1
11:00 AM - 12:00 PM	55.4	75.6	53.2
12:00 PM - 01:00 PM	55.6	71.6	53.4
01:00 PM - 02:00 PM	55.0	66.4	53.4
02:00 PM - 03:00 PM	55.4	70.5	53.1
03:00 PM - 04:00 PM	55.6	72.0	52.8
04:00 PM - 05:00 PM	55.6	80.7	52.7
05:00 PM - 06:00 PM	56.7	73.9	52.5
06:00 PM - 07:00 PM	55.6	72.3	53.0
07:00 PM - 08:00 PM	58.0	70.3	56.0
08:00 PM - 09:00 PM	59.1	76.4	57.6
09:00 PM - 10:00 PM	58.4	78.4	56.6
10:00 PM - 11:00 PM	57.1	74.3	55.5
11:00 PM - 12:00 AM	56.2	69.3	54.8
12:00 AM - 01:00 AM	56.0	78.1	53.2
01:00 AM - 02:00 AM	54.7	76.8	52.8
02:00 AM - 03:00 AM	53.9	63.8	53.0
03:00 AM - 04:00 AM	53.6	62.4	52.6
04:00 AM - 05:00 AM	53.7	65.5	52.7
05:00 AM - 06:00 AM	53.2	67.9	51.5
06:00 AM - 07:00 AM	55.5	74.6	52.5
07:00 AM - 08:00 AM	59.5	79.1	53.9
08:00 AM - 09:00 AM	57.6	78.0	53.0
09:00 AM - 10:00 AM	55.4	75.7	50.8
Leq Average 24 hrs. (dB(A))	56.3		
Lmax (dB(A))		80.7	
L90 (dB(A))			53.0
Ldn (dB(A))	61.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ปรมาณผลการวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมอนามัย กระทรวงสาธารณสุข
2. ปรมาณการตรวจวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมอนามัย กระทรวงสาธารณสุข และสำนักงานสิ่งแวดล้อมแห่งชาติ
โดย พ.ศ. 2548

Technical Management

Saranya Chalemtanrong

Scientist (4)

Approved by

Supt S.

Supot Salameh

Section Head

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S:\Reports_Air Noise\pr (9:56PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819400-1

Page 1 of 1

Sample Number	23111914-3
Parameter	Noise (Leq 24 hrs)
Location	พื้นที่โรงงานอุตสาหกรรม (GPS 47P 0698599, 1589315)
Measurement Date	Oct 16 - Oct 17, 2023
Measurement by	Teevatit Sukdee
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.1	72.8	50.7
11:00 AM - 12:00 PM	53.8	72.3	50.1
12:00 PM - 01:00 PM	55.0	72.0	51.9
01:00 PM - 02:00 PM	55.4	74.6	52.2
02:00 PM - 03:00 PM	57.5	74.9	52.7
03:00 PM - 04:00 PM	55.2	69.7	52.2
04:00 PM - 05:00 PM	56.3	75.5	52.1
05:00 PM - 06:00 PM	57.6	73.8	53.2
06:00 PM - 07:00 PM	55.8	72.3	52.7
07:00 PM - 08:00 PM	57.3	74.0	55.0
08:00 PM - 09:00 PM	58.0	75.6	55.8
09:00 PM - 10:00 PM	57.7	74.7	56.2
10:00 PM - 11:00 PM	56.5	68.1	55.1
11:00 PM - 12:00 AM	56.8	69.9	55.1
12:00 AM - 01:00 AM	56.8	71.1	54.5
01:00 AM - 02:00 AM	54.8	65.4	53.5
02:00 AM - 03:00 AM	54.4	66.9	53.3
03:00 AM - 04:00 AM	54.2	65.5	53.1
04:00 AM - 05:00 AM	54.4	77.8	52.8
05:00 AM - 06:00 AM	53.3	61.7	52.3
06:00 AM - 07:00 AM	54.2	66.4	52.2
07:00 AM - 08:00 AM	55.7	72.8	52.3
08:00 AM - 09:00 AM	57.4	77.9	52.7
09:00 AM - 10:00 AM	54.5	72.6	51.5

Leq Average 24 hrs. (dB(A))	56.0
Lmax (dB(A))	77.9
L90 (dB(A))	52.7
Ldn (dB(A))	61.8
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการสัมผัสของชุมชนอยู่ใกล้ 15 (ก.ม. 2540) ซึ่งกำหนดค่ามาตรฐานเสียงสิ่งแวดล้อมภายใน
2. ปริมาณการวัดค่าภายในโรงงานอุตสาหกรรม และระดับเสียงในเวลากลางคืนและเวลากลางวัน
ตาม พ.ร.บ. 2548

Technical Management

Saranya Chalemtanrong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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S:\Reports_Air Noise\pr (9-56PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819400-1

Page 1 of 1

Sample Number	23111914-4
Parameter	Noise (Leq 24 hrs)
Location	พื้นที่โรงงานอุตสาหกรรม (GPS 47P 0697239, 1589433)
Measurement Date	Oct 14 - Oct 15, 2023
Measurement by	Teevatit Sukdee
Sound Level meter	Serial No. 658242

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	50.0	75.7	41.7
12:00 PM - 01:00 PM	48.1	77.8	41.8
01:00 PM - 02:00 PM	51.0	77.7	41.5
02:00 PM - 03:00 PM	48.1	76.0	42.1
03:00 PM - 04:00 PM	53.5	81.4	43.4
04:00 PM - 05:00 PM	64.5	87.3	45.3
05:00 PM - 06:00 PM	58.5	76.8	50.7
06:00 PM - 07:00 PM	57.2	72.8	51.4
07:00 PM - 08:00 PM	58.1	68.9	55.0
08:00 PM - 09:00 PM	61.0	68.4	58.5
09:00 PM - 10:00 PM	61.4	68.5	59.2
10:00 PM - 11:00 PM	60.9	63.6	58.0
11:00 PM - 12:00 AM	58.9	65.3	55.9
12:00 AM - 01:00 AM	59.8	68.4	57.1
01:00 AM - 02:00 AM	58.5	76.3	55.2
02:00 AM - 03:00 AM	57.8	78.7	55.8
03:00 AM - 04:00 AM	59.3	69.7	56.6
04:00 AM - 05:00 AM	60.0	64.0	57.8
05:00 AM - 06:00 AM	59.5	81.0	56.3
06:00 AM - 07:00 AM	54.3	71.6	48.1
07:00 AM - 08:00 AM	55.6	88.0	47.6
08:00 AM - 09:00 AM	53.0	81.4	44.6
09:00 AM - 10:00 AM	48.3	74.3	41.9
10:00 AM - 11:00 AM	49.1	80.2	39.9

Leq Average 24 hrs. (dB(A))	58.2
Lmax (dB(A))	88.0
L90 (dB(A))	50.7
Ldn (dB(A))	65.3
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการสัมผัสของชุมชนอยู่ใกล้ 15 (ก.ม. 2540) ซึ่งกำหนดค่ามาตรฐานเสียงสิ่งแวดล้อมภายใน
2. ปริมาณการวัดค่าภายในโรงงานอุตสาหกรรม และระดับเสียงในเวลากลางคืนและเวลากลางวัน
ตาม พ.ร.บ. 2548

Technical Management

Saranya Chalemtanrong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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S:\Reports_Air Noise\pr (9-56PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819402-1

Page 1 of 1

Sample Number	23111914-5
Parameter	Noise (Leq 24 hrs)
Location	ร. บ้านโพธิ์พัฒนา ชุมชนบ้านโพธิ์พัฒนา (GPS 47P 0697239, 1589433)
Measurement Date	Oct 15 - Oct 16, 2023
Measurement by	Teevut Sukdee
Sound Level meter	Serial No. 658242

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.5	82.7	40.6
12:00 PM - 01:00 PM	46.5	74.5	40.3
01:00 PM - 02:00 PM	52.9	87.1	41.3
02:00 PM - 03:00 PM	54.7	80.8	44.5
03:00 PM - 04:00 PM	52.7	77.5	45.1
04:00 PM - 05:00 PM	51.4	79.3	44.6
05:00 PM - 06:00 PM	49.1	74.7	45.3
06:00 PM - 07:00 PM	59.3	72.0	46.2
07:00 PM - 08:00 PM	62.3	67.4	57.7
08:00 PM - 09:00 PM	58.4	71.3	57.1
09:00 PM - 10:00 PM	58.7	68.7	57.4
10:00 PM - 11:00 PM	58.1	64.8	56.1
11:00 PM - 12:00 AM	57.0	65.9	53.9
12:00 AM - 01:00 AM	62.1	67.5	57.5
01:00 AM - 02:00 AM	57.0	73.5	53.7
02:00 AM - 03:00 AM	61.7	66.5	58.0
03:00 AM - 04:00 AM	60.5	75.8	56.5
04:00 AM - 05:00 AM	58.9	70.6	57.3
05:00 AM - 06:00 AM	59.0	71.5	57.4
06:00 AM - 07:00 AM	55.0	81.5	49.3
07:00 AM - 08:00 AM	55.8	88.1	46.5
08:00 AM - 09:00 AM	57.2	88.7	44.4
09:00 AM - 10:00 AM	47.3	77.8	42.9
10:00 AM - 11:00 AM	49.5	79.9	42.4

Leq Average 24 hrs. (dB(A))	57.6
Lmax (dB(A))	88.7
L90 (dB(A))	46.5
Ldn (dB(A))	65.4
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปรมาณการวัดระดับเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ
2. ปรมาณการวัดระดับเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ และระดับเสียงในตารางมาตรฐาน
วันที่ พ.ศ. 2548

Technical Management

Saranya Chalemtanong

Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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S:\Reports_Air Noise pr (9:56PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819403-1

Page 1 of 1

Sample Number	23111914-6
Parameter	Noise (Leq 24 hrs)
Location	ร. บ้านโพธิ์พัฒนา ชุมชนบ้านโพธิ์พัฒนา (GPS 47P 0697239, 1589433)
Measurement Date	Oct 16 - Oct 17, 2023
Measurement by	Teevut Sukdee
Sound Level meter	Serial No. 658242

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	48.5	80.8	43.3
12:00 PM - 01:00 PM	51.3	87.0	44.5
01:00 PM - 02:00 PM	47.5	74.2	43.3
02:00 PM - 03:00 PM	50.8	77.4	45.7
03:00 PM - 04:00 PM	50.2	77.9	45.7
04:00 PM - 05:00 PM	50.8	72.5	46.4
05:00 PM - 06:00 PM	50.9	73.3	46.4
06:00 PM - 07:00 PM	57.5	68.2	47.2
07:00 PM - 08:00 PM	58.3	69.7	57.0
08:00 PM - 09:00 PM	57.6	66.1	56.1
09:00 PM - 10:00 PM	55.2	61.0	52.6
10:00 PM - 11:00 PM	55.7	68.9	53.2
11:00 PM - 12:00 AM	56.9	73.9	55.4
12:00 AM - 01:00 AM	54.2	72.7	50.5
01:00 AM - 02:00 AM	52.9	69.0	51.5
02:00 AM - 03:00 AM	53.8	70.9	49.4
03:00 AM - 04:00 AM	55.6	62.8	50.3
04:00 AM - 05:00 AM	58.3	63.5	55.2
05:00 AM - 06:00 AM	58.2	70.2	55.3
06:00 AM - 07:00 AM	55.4	73.3	51.6
07:00 AM - 08:00 AM	53.8	74.4	46.2
08:00 AM - 09:00 AM	49.3	69.0	42.0
09:00 AM - 10:00 AM	48.9	76.0	41.9
10:00 AM - 11:00 AM	54.5	90.6	41.7

Leq Average 24 hrs. (dB(A))	54.7
Lmax (dB(A))	90.6
L90 (dB(A))	47.2
Ldn (dB(A))	62.2
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปรมาณการวัดระดับเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ
2. ปรมาณการวัดระดับเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ และระดับเสียงในตารางมาตรฐาน
วันที่ พ.ศ. 2548

Technical Management

Saranya Chalemtanong

Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819404-1

Page 1 of 1

Sample Number	23111914-7
Parameter	Noise (Leq 24 hrs)
Location	ร. ไร่หลักแก้ว ชุมชนบ้านไร่หลักแก้ว (GPS 47P 0698465, 1594331)
Measurement Date	Oct 14 - Oct 15, 2023
Measurement by	Teevavit Sukdee
Sound Level meter	Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	57.1	68.7	44.8
02:00 PM - 03:00 PM	57.4	71.7	44.8
03:00 PM - 04:00 PM	49.7	65.1	45.1
04:00 PM - 05:00 PM	50.0	74.7	44.3
05:00 PM - 06:00 PM	52.8	75.5	45.7
06:00 PM - 07:00 PM	56.6	82.9	46.1
07:00 PM - 08:00 PM	49.8	69.9	45.0
08:00 PM - 09:00 PM	51.0	67.2	46.2
09:00 PM - 10:00 PM	55.3	73.5	53.8
10:00 PM - 11:00 PM	54.1	70.8	52.9
11:00 PM - 12:00 AM	54.1	78.3	51.8
12:00 AM - 01:00 AM	52.8	72.2	50.8
01:00 AM - 02:00 AM	52.6	61.4	50.4
02:00 AM - 03:00 AM	51.1	63.2	49.4
03:00 AM - 04:00 AM	49.8	68.3	48.5
04:00 AM - 05:00 AM	49.1	62.4	46.9
05:00 AM - 06:00 AM	48.2	58.2	45.7
06:00 AM - 07:00 AM	51.0	74.7	46.5
07:00 AM - 08:00 AM	52.8	65.3	50.8
08:00 AM - 09:00 AM	55.7	77.7	52.4
09:00 AM - 10:00 AM	52.8	74.5	49.4
10:00 AM - 11:00 AM	52.2	80.3	46.8
11:00 AM - 12:00 PM	49.7	65.2	45.1
12:00 PM - 01:00 PM	49.2	74.2	44.2
Leq Average 24 hrs. (dB(A))	53.1	82.9	46.5
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	58.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปรมาณผลการวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ
2. ปรมาณการวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ และระดับเสียงในตารางเปรียบเทียบ

Technical Management

Saranya Chalemtanrong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819405-1

Page 1 of 1

Sample Number	23111914-8
Parameter	Noise (Leq 24 hrs)
Location	ร. ไร่หลักแก้ว ชุมชนบ้านไร่หลักแก้ว (GPS 47P 0698465, 1594331)
Measurement Date	Oct 15 - Oct 16, 2023
Measurement by	Teevavit Sukdee
Sound Level meter	Serial No. 658241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	50.3	69.7	44.2
02:00 PM - 03:00 PM	48.9	79.7	43.2
03:00 PM - 04:00 PM	52.6	80.8	43.1
04:00 PM - 05:00 PM	48.4	65.4	43.6
05:00 PM - 06:00 PM	53.1	77.9	43.6
06:00 PM - 07:00 PM	53.0	78.4	43.8
07:00 PM - 08:00 PM	49.0	69.9	44.2
08:00 PM - 09:00 PM	52.3	72.7	48.0
09:00 PM - 10:00 PM	55.5	71.1	54.1
10:00 PM - 11:00 PM	55.5	76.6	53.9
11:00 PM - 12:00 AM	54.2	68.7	52.0
12:00 AM - 01:00 AM	53.6	67.8	51.6
01:00 AM - 02:00 AM	51.6	66.7	48.7
02:00 AM - 03:00 AM	50.8	70.2	47.6
03:00 AM - 04:00 AM	55.3	73.5	46.7
04:00 AM - 05:00 AM	51.0	58.7	48.4
05:00 AM - 06:00 AM	53.2	71.2	48.1
06:00 AM - 07:00 AM	54.7	79.7	47.7
07:00 AM - 08:00 AM	53.2	63.5	51.2
08:00 AM - 09:00 AM	56.0	75.4	53.1
09:00 AM - 10:00 AM	55.1	77.9	50.0
10:00 AM - 11:00 AM	52.0	73.4	47.0
11:00 AM - 12:00 PM	50.4	64.5	44.7
12:00 PM - 01:00 PM	50.4	69.7	45.1
Leq Average 24 hrs. (dB(A))	53.0	80.8	47.7
Lmax (dB(A))			
L90 (dB(A))			
Ldn (dB(A))	59.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปรมาณผลการวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ
2. ปรมาณการวัดค่าเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกรมควบคุมมลพิษ และระดับเสียงในตารางเปรียบเทียบ

Technical Management

Saranya Chalemtanrong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819406-1

Page 1 of 1

Sample Number	23111914-9
Parameter	Noise (Leq 24 hrs)
Location	ร. หนองปรือ ต.หนองปรือ อ.บางบาล จ.สุพรรณบุรี (GPS 47P 0698465, 1594331)
Measurement Date	Oct 16 - Oct 17, 2023
Measurement by	Teevavit Sukdee
Sound Level meter	Serial No. 558241

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.9	82.2	43.8
02:00 PM - 03:00 PM	48.8	68.5	43.0
03:00 PM - 04:00 PM	48.2	68.5	42.4
04:00 PM - 05:00 PM	52.1	78.5	43.0
05:00 PM - 06:00 PM	52.2	74.2	43.2
06:00 PM - 07:00 PM	54.2	74.6	43.7
07:00 PM - 08:00 PM	49.4	72.4	43.4
08:00 PM - 09:00 PM	55.5	84.2	45.8
09:00 PM - 10:00 PM	57.4	77.2	45.2
10:00 PM - 11:00 PM	55.3	66.0	53.7
11:00 PM - 12:00 AM	54.5	66.7	53.1
12:00 AM - 01:00 AM	52.6	75.2	49.4
01:00 AM - 02:00 AM	52.4	74.2	48.2
02:00 AM - 03:00 AM	51.6	63.7	49.8
03:00 AM - 04:00 AM	51.0	65.1	48.4
04:00 AM - 05:00 AM	49.7	66.0	46.3
05:00 AM - 06:00 AM	48.8	56.6	44.5
06:00 AM - 07:00 AM	49.6	58.3	46.1
07:00 AM - 08:00 AM	52.3	62.6	50.3
08:00 AM - 09:00 AM	54.3	74.4	52.0
09:00 AM - 10:00 AM	53.1	71.6	49.6
10:00 AM - 11:00 AM	50.7	68.7	46.4
11:00 AM - 12:00 PM	48.9	71.5	44.2
12:00 PM - 01:00 PM	49.5	70.2	43.6

Leq Average 24 hrs. (dB(A))	52.6
Lmax (dB(A))	84.2
L90 (dB(A))	46.1
Ldn (dB(A))	58.7
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกรมการขนส่งทางบก เรื่อง กำหนดค่าระดับเสียงรบกวนในยานพาหนะ
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงรบกวนในเครื่องจักรกลและเครื่องมือกล
พ.ร.บ. พ.ศ. 2548

Technical Management

Saranya Chalemtanong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819407-1

Page 1 of 1

Sample Number	23111914-10
Parameter	Noise (Leq 24 hrs)
Location	ร. หนองปรือ ต.หนองปรือ อ.บางบาล จ.สุพรรณบุรี (GPS 47P 0700733, 1590964)
Measurement Date	Oct 14 - Oct 15, 2023
Measurement by	Teevavit Sukdee
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	56.9	78.2	44.0
01:00 PM - 02:00 PM	54.3	76.3	43.2
02:00 PM - 03:00 PM	54.3	78.5	43.0
03:00 PM - 04:00 PM	54.0	76.6	44.5
04:00 PM - 05:00 PM	62.3	86.8	47.6
05:00 PM - 06:00 PM	57.1	77.1	48.7
06:00 PM - 07:00 PM	54.9	76.0	45.6
07:00 PM - 08:00 PM	57.5	78.2	50.8
08:00 PM - 09:00 PM	57.1	77.4	49.8
09:00 PM - 10:00 PM	60.5	88.4	55.4
10:00 PM - 11:00 PM	58.9	72.4	57.1
11:00 PM - 12:00 AM	59.1	81.2	56.8
12:00 AM - 01:00 AM	56.5	73.5	53.3
01:00 AM - 02:00 AM	55.8	71.7	52.7
02:00 AM - 03:00 AM	54.6	77.7	52.3
03:00 AM - 04:00 AM	55.6	78.8	53.4
04:00 AM - 05:00 AM	55.0	69.6	53.3
05:00 AM - 06:00 AM	54.5	75.5	52.1
06:00 AM - 07:00 AM	54.4	75.5	52.4
07:00 AM - 08:00 AM	55.4	67.5	53.1
08:00 AM - 09:00 AM	54.8	73.4	51.7
09:00 AM - 10:00 AM	56.1	78.4	50.1
10:00 AM - 11:00 AM	54.4	76.4	47.9
11:00 AM - 12:00 PM	53.0	75.6	46.3

Leq Average 24 hrs. (dB(A))	56.3
Lmax (dB(A))	88.4
L90 (dB(A))	62.9
Ldn (dB(A))	70
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศกรมการขนส่งทางบก เรื่อง กำหนดค่าระดับเสียงรบกวนในยานพาหนะ
2. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงรบกวนในเครื่องจักรกลและเครื่องมือกล
พ.ร.บ. พ.ศ. 2548

Technical Management

Saranya Chalemtanong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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S:\Reports_Air Noise ppt (9:57PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819408-1

Page 1 of 1

Sample Number	23111914-11
Parameter	Noise (Leq 24 hrs)
Location	ร. หนองปรือใหม่ ต.หนองปรือใหม่ อ.เมือง จ.สุพรรณบุรี (GPS 47P 0700733, 1590964)
Measurement Date	Oct 15 - Oct 16, 2023
Measurement by	Teevavit Sukdee
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.8	76.7	45.0
01:00 PM - 02:00 PM	54.5	73.0	46.1
02:00 PM - 03:00 PM	57.1	78.3	47.3
03:00 PM - 04:00 PM	57.2	80.6	48.6
04:00 PM - 05:00 PM	54.2	72.4	49.1
05:00 PM - 06:00 PM	54.3	77.4	45.9
06:00 PM - 07:00 PM	55.5	77.4	45.9
07:00 PM - 08:00 PM	57.2	76.5	48.9
08:00 PM - 09:00 PM	55.7	77.9	47.0
09:00 PM - 10:00 PM	58.7	84.1	54.4
10:00 PM - 11:00 PM	60.0	88.1	56.4
11:00 PM - 12:00 AM	56.3	72.8	53.5
12:00 AM - 01:00 AM	55.3	77.8	52.7
01:00 AM - 02:00 AM	54.8	72.8	52.7
02:00 AM - 03:00 AM	54.2	73.7	51.4
03:00 AM - 04:00 AM	54.4	74.5	51.8
04:00 AM - 05:00 AM	54.3	78.5	50.3
05:00 AM - 06:00 AM	52.0	63.3	50.2
06:00 AM - 07:00 AM	51.4	65.0	50.0
07:00 AM - 08:00 AM	57.7	78.3	51.8
08:00 AM - 09:00 AM	55.3	74.5	51.7
09:00 AM - 10:00 AM	54.5	71.3	48.5
10:00 AM - 11:00 AM	55.1	82.9	45.5
11:00 AM - 12:00 PM	53.9	73.6	45.7
Leq Average 24 hrs. (dB(A))	55.7		
Lmax (dB(A))	84.1		
L90 (dB(A))			49.1
Ldn (dB(A))	61.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการแผ่รังสีเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกฎหมายควบคุมสิ่งแวดล้อม
2. ปริมาณการแผ่รังสีเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกฎหมายควบคุมสิ่งแวดล้อม
โดย พ.ร.บ. 2548

Technical Management

Saranya Chalemtanong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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S:\Reports_Air Noise ppt (9:57PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 23111914
Date Received : Oct 19, 2023
Date Reported : Oct 27, 2023
Report Number: 2819409-1

Page 1 of 1

Sample Number	23111914-12
Parameter	Noise (Leq 24 hrs)
Location	ร. หนองปรือใหม่ ต.หนองปรือใหม่ อ.เมือง จ.สุพรรณบุรี (GPS 47P 0700733, 1590964)
Measurement Date	Oct 16 - Oct 17, 2023
Measurement by	Teevavit Sukdee
Sound Level meter	Serial No. 296511

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	52.9	71.3	44.2
01:00 PM - 02:00 PM	53.7	75.2	44.1
02:00 PM - 03:00 PM	54.6	85.0	44.8
03:00 PM - 04:00 PM	51.5	75.3	45.4
04:00 PM - 05:00 PM	53.8	78.0	45.9
05:00 PM - 06:00 PM	57.5	76.7	49.2
06:00 PM - 07:00 PM	65.7	76.8	56.5
07:00 PM - 08:00 PM	62.7	75.9	56.0
08:00 PM - 09:00 PM	56.7	75.6	48.1
09:00 PM - 10:00 PM	58.0	74.8	55.3
10:00 PM - 11:00 PM	58.2	70.9	55.6
11:00 PM - 12:00 AM	55.8	71.5	54.1
12:00 AM - 01:00 AM	56.8	76.1	53.8
01:00 AM - 02:00 AM	56.6	79.2	53.3
02:00 AM - 03:00 AM	54.7	77.4	51.9
03:00 AM - 04:00 AM	53.4	71.5	50.6
04:00 AM - 05:00 AM	53.0	72.2	50.0
05:00 AM - 06:00 AM	51.7	62.7	49.7
06:00 AM - 07:00 AM	51.9	67.4	49.6
07:00 AM - 08:00 AM	55.2	70.8	51.8
08:00 AM - 09:00 AM	60.2	72.3	54.9
09:00 AM - 10:00 AM	60.0	76.8	54.1
10:00 AM - 11:00 AM	59.7	75.5	50.3
11:00 AM - 12:00 PM	59.1	76.2	50.6
Leq Average 24 hrs. (dB(A))	58.1		
Lmax (dB(A))	85.0		
L90 (dB(A))			50.6
Ldn (dB(A))	62.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการแผ่รังสีเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกฎหมายควบคุมสิ่งแวดล้อม
2. ปริมาณการแผ่รังสีเสียงตามเกณฑ์ ฉบับที่ 15 (พ.ศ. 2540) ของกฎหมายควบคุมสิ่งแวดล้อม
โดย พ.ร.บ. 2548

Technical Management

Saranya Chalemtanong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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ภาคผนวก ค-3

คุณภาพน้ำผิวดิน



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140

P/O : 54230009

Project Name : Monitoring

Project Location : WHA SIL

TESTING
No.0009

Lot ID: 2397611

Date Received : Sep 05, 2023

Date Reported : Dec 14, 2023

Report Number : 2863378-1

Page 1 of 2

Sample Number	2397611-1
Sample Date	Sep 05, 2023 11:00 AM
Sample Description	Surface water
Location	เขตรักษาพันธุ์สัตว์ป่าห้วยขาแข้งตอนล่างเขตรักษาพันธุ์สัตว์ป่าห้วยขาแข้ง 500 เมตร
Date Analysis Commenced	Sep 06, 2023
Condition of Sample	Contained in one amber glass bottle, six plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.003	0.0005	<0.0005	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	7900.0	≤20000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	290	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.5	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Nitrate as N	mg/L	0.05	0.2	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. If the sample(s) were not analyzed by ALS, the results are for information only. The results are not to be used for legal or regulatory purposes. This report is not reproduced except in full.

Approved by

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Savitree Nongsiam
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S: Reports, AL Co. (1.25PH)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140

P/O : 54230009

Project Name : Monitoring

Project Location : WHA SIL

TESTING
No.0009

Lot ID: 2397611

Date Received : Sep 05, 2023

Date Reported : Dec 14, 2023

Report Number : 2863378-1

Page 2 of 2

Sample Number	2397611-1
Sample Date	Sep 05, 2023 11:00 AM
Sample Description	Surface water
Location	เขตรักษาพันธุ์สัตว์ป่าห้วยขาแข้งตอนล่างเขตรักษาพันธุ์สัตว์ป่าห้วยขาแข้ง 500 เมตร
Date Analysis Commenced	Sep 06, 2023
Condition of Sample	Contained in one amber glass bottle, six plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.8	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.6	n/	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C *	mg/L	-	5	338	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	29	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)

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

n : Not Change from natural condition

Note : This Analysis test report is reissued to supersede report No.2751326-1, Date Reported : Sep 13, 2023 due to revise analytical information.

Sampling By : Teerawat Puangsuk

Remark :

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. If the sample(s) were not analyzed by ALS, the results are for information only. The results are not to be used for legal or regulatory purposes. This report is not reproduced except in full.

Approved by

Savitree N.

Savitree Nongsiam
Manager

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S: Reports, AL Co. (1.25PH)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 22116924
Date Received : Sep 27, 2023
Date Reported : Oct 03, 2023
Report Number : 2788308-1
Project Name : Monitoring
Project Location : WHA SIL

Sample Number : 22116924-1
Sampled Date : Sep 27, 2023 9:59 AM
Sample Description : Group 3 : Surface Water-SW
Location : คลองน้ำไหล พื้นที่ก่อสร้างถนนสาย 500 เมตร (SW-RP-UP)
Date Analysis Commenced : Sep 28, 2023
Condition of Sample : Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok

Sampling By : Anupong Rattanasriprasert
Remark :
- LOD : Limit of Detection
- "C" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Siriluk P.

Siriluk Puengpiang
Section Head

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Date Received : Sep 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2863379-1
Project Name : Monitoring
Project Location : WHA SIL

Sample Number : 2397611-2
Sampled Date : Sep 05, 2023 12:30 PM
Sample Description : Surface water
Location : คลองน้ำไหล พื้นที่ก่อสร้างถนนสาย 500 เมตร
Date Analysis Commenced : Sep 06, 2023
Condition of Sample : Contained in one amber glass bottle, six plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.001	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	13000.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (B, F)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	558	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.4	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Nitrate as N	mg/L	0.06	0.2	Not Detected	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok

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Approved by

Savitree N.

Savitree Naisiang
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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 2397611
Date Received : Sep 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2863379-1

Page 2 of 2

Sample Number	2397611-2						
Sampled Date	Sep 05, 2023 12:30 PM						
Sample Description	Surface water						
Location	คลองห้วยทรายเหนือตำบลหนองปรือ อำเภอบางปลามะลิ จังหวัดสุพรรณบุรี 500 เมตร						
Date Analysis Commenced	Sep 06, 2023						
Condition of Sample	Contained in one amber glass bottle, six plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C		-	-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.9	r	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	322	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	42	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

Note : This Analysis test report is reissued to supersede report No.2751326-1, Date Reported : Sep 13, 2023 due to revise analytical information.

Sampling By : Teerawat Puangskul

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

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S:\Reports_ML_Gr.pdf (1/384)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 22116924
Date Received : Sep 27, 2023
Date Reported : Oct 03, 2023
Report Number : 2788308-1

Page 2 of 2

Sample Number	22116924-2					
Sampled Date	Sep 27, 2023 9:37 AM					
Sample Description	Group 3 : Surface Water-SW					
Location	คลองห้วยทรายเหนือตำบลหนองปรือ อำเภอบางปลามะลิ จังหวัดสุพรรณบุรี 500 เมตร (SW-NR-UP)					
Date Analysis Commenced	Sep 28, 2023					
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	2.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5213 B, 4500 - O (C)	Bangkok

Sampling By : Anupong Rattanasriprasert

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

The above results are valid only for the analyzed sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without the written permission of ALS. ALS is not responsible for the accuracy of the information provided by the client. This report is not reproduced except in full.

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Siriluk Puangpang
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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Page 1 of 3

Sample Number 2397611-3
Sampled Date Sep 05, 2023 12:45 PM
Sample Description Surface water
Location คลองห้วยวังน้ำท่าจากถนนท่าเรือสาย 500 เมตร
Date Analysis Commenced Sep 06, 2023
Condition of Sample Contained in one amber glass bottle, six plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
Metals Testing						
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	<0.05	Bangkok
Lead	mg/L	0.0003	0.0005	0.004	<0.05	Bangkok
Microbiological Testing						
Total Coliform	MPN/100mL	-	-	22000.0	No Standard	Bangkok
Water Testing						
Ammonia Nitrogen *	mg/L	-	0.06	0.07	<0.5	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	3.9	<4	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	596	No Standard	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	0.005	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS and the sample(s) were analyzed by ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

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S: Reports, AL, GL, PL (1/28PW)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Page 2 of 3

Analyte	Unit	LOD	Result	Guideline / Specification	Method	Testing Location
Water Testing						
Dissolved Oxygen *	mg/L	-	5.3	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok
Nitrate as N	mg/L	0.06	1.1	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-N (B)	Bangkok
Oil & Grease	mg/L	-	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3520 B	Bangkok
pH at 25 degree C		-	7.7	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	31.1	n ⁱ	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	354	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	25	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
nⁱ: Change from Natural condition not more than 3 degree C
Note : This Analysis test report is reissued to supersede report No.2751326-1, Date Reported : Sep 13, 2023 due to revise analytical information.

Sampling By : Teerawat Puangskul

Remark :

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS and the sample(s) were analyzed by ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company. This report is not reproduced except in full.

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S: Reports, AL, GL, PL (1/28PW)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54230009

Project Name : Monitoring

Project Location : WHA SIL

TESTING
No.0009

Lot ID: 2397611

Date Received : Sep 05, 2023

Date Reported : Dec 14, 2023

Report Number : 2863380-1

Page 3 of 3

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

Page 1 of 9

Sample Number 23124187-1

Sampled Date Dec 05, 2023 11:40 AM

Sample Description Surface water

Location คลองระพีพัฒน์ บริเวณพื้นที่โรงงานอุตสาหกรรมของ บริษัทฯ 500 เมตร

Date Analysis Commenced Dec 06, 2023

Condition of Sample Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte Unit LOD LOQ (LOR) Result Guideline / Specification Method Testing Location

Metals Testing

Arsenic mg/L 0.0003 0.0005 0.002 ≤0.01 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Cadmium mg/L 0.0003 0.0005 Not Detected ≤0.005 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Copper mg/L 0.0003 0.0005 0.002 ≤0.10 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Hexavalent Chromium mg/L 0.003 0.01 Not Detected ≤0.05 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B Bangkok

Lead mg/L 0.0003 0.0005 0.0009 ≤0.05 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Manganese mg/L 0.0003 0.0005 0.11 ≤1 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Mercury mg/L 0.0001 0.0005 Not Detected ≤0.002 In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E Bangkok

Nickel mg/L 0.0003 0.0005 0.002 ≤0.10 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

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S: Reports, AL, GL, PL (1/28PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : 54230009

Project Name : Monitoring

Project Location : WHA SIL

TESTING
No.0009

Lot ID: 23124187

Date Received : Dec 05, 2023

Date Reported : Dec 14, 2023

Report Number : 2840480-1

Page 1 of 9

Sample Number 23124187-1

Sampled Date Dec 05, 2023 11:40 AM

Sample Description Surface water

Location คลองระพีพัฒน์ บริเวณพื้นที่โรงงานอุตสาหกรรมของ บริษัทฯ 500 เมตร

Date Analysis Commenced Dec 06, 2023

Condition of Sample Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte Unit LOD LOQ (LOR) Result Guideline / Specification Method Testing Location

Metals Testing

Arsenic mg/L 0.0003 0.0005 0.002 ≤0.01 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Cadmium mg/L 0.0003 0.0005 Not Detected ≤0.005 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Copper mg/L 0.0003 0.0005 0.002 ≤0.10 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Hexavalent Chromium mg/L 0.003 0.01 Not Detected ≤0.05 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B Bangkok

Lead mg/L 0.0003 0.0005 0.0009 ≤0.05 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Manganese mg/L 0.0003 0.0005 0.11 ≤1 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

Mercury mg/L 0.0001 0.0005 Not Detected ≤0.002 In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E Bangkok

Nickel mg/L 0.0003 0.0005 0.002 ≤0.10 Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F Bangkok

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S: Reports, AL, GL, PL (1/28PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 23124187
Date Received : Dec 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2840480-1

Page 2 of 9

Sample Number	23124187-1						
Sample Date	Dec 05, 2023 11:40 AM						
Sample Description	Surface water						
Location	เขตรักษาพันธุ์สัตว์ป่าห้วยขาแข้งตอนดงห้วยทราย 500 เมตร						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	0.005	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	1400.0	≤20000	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	310	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	≤0.005	In-house method : STM 04-007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.6	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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S: Reports, AL, GL, PL (3.3594)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 23124187
Date Received : Dec 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2840480-1

Page 3 of 9

Sample Number		23124187-1					
Sample Date		Dec 05, 2023 11:40 AM					
Sample Description		Surface water					
Location		คลองลำน้ำแม่ปิงตอนต้นใกล้ตลาดเทศบาลเมืองลำปาง 500 เมตร					
Date Analysis Commenced		Dec 06, 2023					
Condition of Sample		Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Nitrate as N	mg/L	0.06	0.2	0.4	≤5	In-house method : STM 04-004 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C	-	-	-	7.0	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.9	n ¹	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	182	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	32	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 3)
n¹: Change from Natural condition not more than 3 degree C
n : Not Change from natural condition

Sampling By : Teerawat Puangskul

Remark :
- LOD : Limit of Detection
- < : lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * (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.

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S: Reports, AL, GL, PL (3.3594)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 23124187
Date Received : Dec 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2840480-1

Page 4 of 9

Sample Number	23124187-2						
Sampled Date	Dec 05, 2023 10:20 AM						
Sample Description	Surface water						
Location	คลองห้วยทรายใหญ่ ตำบลน้ำโจน อำเภอน้ำขุ่น จังหวัดสุพรรณบุรี						
Date Analysis Commenced	Dec 06, 2023						
Condition of Sample	Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.001	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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S: Reports, AL, G: rpt (3.35PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 23124187
Date Received : Dec 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2840480-1

Page 5 of 9

Sample Number		23124187-2					
Sampled Date		Dec 05, 2023 10:20 AM					
Sample Description		Surface water					
Location		คลองห้วยทรายใหญ่ตำบลน้ำโจน อำเภอน้ำขุ่น จังหวัดสุพรรณบุรี					
Date Analysis Commenced		Dec 06, 2023					
Condition of Sample		Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)					
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	330.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	300	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	0.005	In-house method - STM 04-007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C, F)	Bangkok

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6947-21/ENAL

S: Reports, AL, G: rpt (3.35PM)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Page 6 of 9

Sample Number 23124187-2
Sampled Date Dec 05, 2023 10:20 AM
Sample Description Surface water
Location คลองน้ำไหล พื้นที่จากถนนหน้าวัดป่าทรายนา 500 เมตร
Date Analysis Commenced Dec 06, 2023
Condition of Sample Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Nitrate as N	mg/L	0.05	0.2	<0.2	≤5	In-house method : STM 04-004 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C	-	-	-	7.5	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4530 - H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	°	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	173	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

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

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

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Page 7 of 9

Sample Number 23124187-3
Sampled Date Dec 05, 2023 11:20 AM
Sample Description Surface water
Location คลองน้ำไหล พื้นที่จากถนนหน้าวัดป่าทรายนา 500 เมตร
Date Analysis Commenced Dec 06, 2023
Condition of Sample Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	0.002	≤0.01	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.002	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0008	≤0.05	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.09	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury	mg/L	0.0001	0.0005	Not Detected	≤0.002	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.001	≤0.1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 23124187
Date Received : Dec 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2840480-1

Page 8 of 9

Sample Number 23124187-3
Sampled Date Dec 05, 2023 11:20 AM
Sample Description Surface water
Location คลองห้วยวังน้ำท่าในเขตสวนป่าสาธารณะ 500 เมตร
Date Analysis Commenced Dec 06, 2023
Condition of Sample Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Zinc	mg/L	0.003	0.005	Not Detected	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	7900.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Bangkok
Water Testing							
Ammonia Nitrogen *	mg/L	-	0.06	<0.06	≤0.5	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (B, F)	Bangkok
BOD (5 days at 20 degree C) *	mg/L	-	2.0	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, 4500 - O (C)	Bangkok
Conductivity at 25 degree C *	micromhos/cm	-	0.5	280	No Standard	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2510 B	Bangkok
Cyanide as CN	mg/L	0.002	0.005	Not Detected	0.005	In-house method : STM 04-007 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - CN (C, E)	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.0	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Bangkok

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhao, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

TESTING
No.0009
Lot ID: 23124187
Date Received : Dec 05, 2023
Date Reported : Dec 14, 2023
Report Number : 2840480-1

Page 9 of 9

Sample Number 23124187-3
Sampled Date Dec 05, 2023 11:20 AM
Sample Description Surface water
Location คลองห้วยวังน้ำท่าในเขตสวนป่าสาธารณะ 500 เมตร
Date Analysis Commenced Dec 06, 2023
Condition of Sample Contained in one amber glass bottle, two glass vials, two BOD bottles and six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Nitrate as N	mg/L	0.06	0.2	<0.2	≤5	In-house method : STM 04-004 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Oil & Grease	mg/L	-	3	<3	No Standard	In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Bangkok
pH at 25 degree C	-	-	-	7.9	5.0-9.0	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	30.1	n ¹	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Bangkok
Total Dissolved Solids Dried at 180 degree C *	mg/L	-	5	166	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	22	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Bangkok

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n¹: Change from Natural condition not more than 3 degree C

Sampling By : Teerawat Puangsuks

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

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ภาคผนวก ค-4

ปริมาณโลหะหนักในตะกอนดิน



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2343049
Date Received : May 16, 2023
Date Reported : Jun 16, 2023
Report Number : 2627288-1 Rev. No.1

Page 1 of 6

Sample Number 2343049-1
Sampled Date May 16, 2023 12:00 PM
Sample Description Soil (Dry Basis)
Location กองขยะมูลฝอยฝังกลบอุตสาหกรรมบริเวณถนน 500 เมตร
Date Analysis Commenced May 17, 2023
Condition of Sample Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/kg	-	0.50	<0.50	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Copper	mg/kg	-	1.00	32.8	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7190A	Bangkok
Lead	mg/kg	-	1.00	13.9	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Manganese	mg/kg	-	1.00	483	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	10.7	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Zinc	mg/kg	-	1.00	28.6	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Physical Parameters								
Moisture	%	-	0.1	37.0	No Standard	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

Guideline : (1) Notification of The National Environmental Board B.E.2565, for protect benthic animals
(2) Notification of The National Environmental Board B.E.2565, Annex1

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Savitree Naisiangiam
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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2343049
Date Received : May 16, 2023
Date Reported : Jun 16, 2023
Report Number : 2627288-1 Rev. No.1

Page 2 of 6

Note : 1. Analysis Results expressed on dry basis.
2. This Analysis test report is reissued to supersede report No.2627288-1, Date Reported : May 25, 2023 due to revise analytical information.

Sampling By : Teerawat Puangsuk วัฒนไพศาล 7-204-3-7107
Remark :
- LOD : Limit of Detection
- LOR : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Savitree Naisiangiam
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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2361890

Date Received : May 30, 2023
Date Reported : Jun 28, 2023
Report Number : 2665362-1 Rev. No.1

Page 3 of 4

Sample Number 2361890-3
Sample Date May 30, 2023 11:10 AM
Sample Description Soil (Dry Basis)
Location คลองห้วยน้ำท่าตอนตำบลท่าช้างจ.สระบุรี
Date Analysis Commenced May 31, 2023
Condition of Sample Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/kg	-	0.50	<0.50	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Copper	mg/kg	-	1.00	38.4	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	1.15	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060A and 7190A	Bangkok
Lead	mg/kg	-	1.00	19.4	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Manganese	mg/kg	-	1.00	606	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	18.5	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Selenium	mg/kg	-	0.50	<0.50	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Zinc	mg/kg	-	1.00	54.8	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Physical Parameters								
Moisture	%	-	0.1	38.2	No Standard	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

Guideline : (1) Notification of The National Environmental Board B.E.2565, for protect benthic animals
(2) Notification of The National Environmental Board B.E.2565, Annex1

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Savitree Naisangiam
Manager

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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2361890

Date Received : May 30, 2023
Date Reported : Jun 28, 2023
Report Number : 2665362-1 Rev. No.1

Page 4 of 4

Note : 1. Analysis Results expressed on dry basis.
2. This Analysis test report is reissued to supersede report No.2665362-1, Date Reported : Jun 08, 2023 due to revise guideline/specification
Sampling By : จิรากร ไขว้สาร วัฒนาธรรม 7204-a-7517

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

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Savitree Naisangiam
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Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2343049
Date Received : May 16, 2023
Date Reported : Jun 16, 2023
Report Number : 2627288-1 Rev. No.1

Page 5 of 6

Sample Number 2343049-3
Sampled Date May 16, 2023 11:00 AM
Sample Description Soil (Dry Basis)
Location คลองน้ำร้อน พื้นที่อุตสาหกรรมน้ำพริกและโรงงานน้ำตาล 500 เมตร
Date Analysis Commenced May 17, 2023
Condition of Sample Packed in one glass bottle and one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/kg	-	0.50	<0.50	≤10	≤33	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	≤1	≤5	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Copper	mg/kg	-	1.00	50.2	≤31.5	≤150	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Hexavalent Chromium	mg/kg	-	1.00	<1.00	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3060a and 7196a	Bangkok
Lead	mg/kg	-	1.00	82.2	≤36	≤130	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Manganese	mg/kg	-	1.00	756	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Mercury	mg/kg	-	0.10	<0.10	≤0.2	≤1	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	20.6	≤23	≤50	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Selenium	mg/kg	-	0.50	0.88	No Standard	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Zinc	mg/kg	-	1.00	276	≤120	≤460	United States Environmental Protection Agency, EPA Method 3050B and 60100	Bangkok
Physical Parameters								
Moisture	%	-	0.1	71.7	No Standard	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 G	Bangkok

Guideline : (1) Notification of The National Environmental Board B.E.2565, for protect benthic animals
(2) Notification of The National Environmental Board B.E.2565, Annex1

The above results are valid only for the analyzed/tested sample(s) as indicated in the report. Without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Savitree N.
Savitree Naisiangiam
Manager

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6047-211 EMAIL

S:\Report\AL_JCL\ref (9-224M)



Analysis / Test Report

Client : WHA Saraburi Industrial Land Co., Ltd.
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O : 54230009
Project Name : Monitoring
Project Location : WHA SIL

Lot ID: 2343049
Date Received : May 16, 2023
Date Reported : Jun 16, 2023
Report Number : 2627288-1 Rev. No.1

Page 6 of 6

Note : 1. Analysis Results expressed on dry basis.
2. This Analysis test report is reissued to supersede report No.2627288-1, Date Reported : May 25, 2023 due to revise analytical information.

Sampling By : Teerawat Puangsuk วัฒนไพศาล 7-204-3-7107

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

The above results are valid only for the analyzed/tested sample(s) as indicated in the report. Without written consent from the Laboratory, ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by

Savitree N.
Savitree Naisiangiam
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ภาคผนวก ค-5

คุณภาพน้ำทิ้ง (ระบบบำบัดน้ำเสียรวมทางชีวภาพ)

Analysis / Test Report

Client: WWS (Utilities and Power Public Company Limited)
111 Plo 7, Nongpladung Road, Nongpladung, Bangkok, Saraburi Thailand 18140

TESTING No 0009
Lot ID: 2313692
Data Received: Nov 25, 2023
Data Reported: Dec 14, 2023
Report Number: 2313692-1

Sample Number: 2313692-1
Sample Date: Nov 25, 2023 12:28 PM
Sample Description: Group 1 Wastewater WWS Plant
Location: WWS SL - WWS-01 - 1st Equalization Tank
Date Analysis Commenced: Nov 25, 2023
Condition of Sample: Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, ISO/IEC)
Physical Property: Yellow, a lot of odor, solid and turbid

Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COO	mg/L	-	25	230	4750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & WWS, 2nd ed., 2017, part 920-D, part 920-E	Bangkok
pH at 25 degree C *		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & WWS, 2nd ed., 2017, part 910-B, part 910-C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	362	1200	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & WWS, 2nd ed., 2017, part 920-D, part 920-E	Bangkok

Guideline: Standard of WWS Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling by: Tescan Pongkum Induswast v-204 v-750

LOD - Limit of Detection
LOQ - Lower than LOQ (Limit of Quantitation) (10X Limit of Detection)
Analytical method: None not included in scope of Accreditation (ISO/IEC 17025)
The laboratory has been accredited in an accredited laboratory complying with the ISO/IEC 17025

Technical Management:
Chanatt L.
Senior Manager
induswast v-204 v-427

Approved by:
Kach Ah.
Senior Manager
induswast v-204 v-427

Head office is the nearest to the laboratory. The laboratory is located at 111 Plo 7, Nongpladung Road, Nongpladung, Bangkok 10212 Thailand. Phone: +66 2 760 8800 / 111 v-427 v-428 v-429 v-430 v-431 v-432 v-433 v-434 v-435 v-436 v-437 v-438 v-439 v-440 v-441 v-442 v-443 v-444 v-445 v-446 v-447 v-448 v-449 v-450 v-451 v-452 v-453 v-454 v-455 v-456 v-457 v-458 v-459 v-460 v-461 v-462 v-463 v-464 v-465 v-466 v-467 v-468 v-469 v-470 v-471 v-472 v-473 v-474 v-475 v-476 v-477 v-478 v-479 v-480 v-481 v-482 v-483 v-484 v-485 v-486 v-487 v-488 v-489 v-490 v-491 v-492 v-493 v-494 v-495 v-496 v-497 v-498 v-499 v-500 v-501 v-502 v-503 v-504 v-505 v-506 v-507 v-508 v-509 v-510 v-511 v-512 v-513 v-514 v-515 v-516 v-517 v-518 v-519 v-520 v-521 v-522 v-523 v-524 v-525 v-526 v-527 v-528 v-529 v-530 v-531 v-532 v-533 v-534 v-535 v-536 v-537 v-538 v-539 v-540 v-541 v-542 v-543 v-544 v-545 v-546 v-547 v-548 v-549 v-550 v-551 v-552 v-553 v-554 v-555 v-556 v-557 v-558 v-559 v-560 v-561 v-562 v-563 v-564 v-565 v-566 v-567 v-568 v-569 v-570 v-571 v-572 v-573 v-574 v-575 v-576 v-577 v-578 v-579 v-580 v-581 v-582 v-583 v-584 v-585 v-586 v-587 v-588 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v-1933 v-1934 v-1935 v-1936 v-1937 v-1938 v-1939 v-1940 v-1941 v-1942 v-1943 v-1944 v-1945 v-1946 v-1947 v-1948 v-1949 v-1950 v-1951 v-1952 v-1953 v-1954 v-1955 v-1956 v-1957 v-1958 v-1959 v-1960 v-1961 v-1962 v-1963 v-1964 v-1965 v-1966 v-1967 v-1968 v-1969 v-1970 v-1971 v-1972 v-1973 v-1974 v-1975 v-1976 v-1977 v-1978 v-1979 v-1980 v-1981 v-1982 v-1983 v-1984 v-1985 v-1986 v-1987 v-1988 v-1989 v-1990 v-1991 v-1992 v-1993 v-1994 v-1995 v-1996 v-1997 v-1998 v-1999 v-2000 v-2001 v-2002 v-2003 v-2004 v-2005 v-2006 v-2007 v-2008 v-2009 v-2010 v-2011 v-2012 v-2013 v-2014 v-2015 v-2016 v-2017 v-2018 v-2019 v-2020 v-2021 v-2022 v-2023 v-2024 v-2025 v-2026 v-2027 v-2028 v-2029 v-2030 v-2031 v-2032 v-2033 v-2034 v-2035 v-2036 v-2037 v-2038 v-2039 v-2040 v-2041 v-2042 v-2043 v-2044 v-2045 v-2046 v-2047 v-2048 v-2049 v-2050 v-2051 v-2052 v-2053 v-2054 v-2055 v-2056 v-2057 v-2058 v-2059 v-2060 v-2061 v-2062 v-2063 v-2064 v-2065 v-2066 v-2067 v-2068 v-2069 v-2070 v-2071 v-2072 v-2073 v-2074 v-2075 v-2076 v-2077 v-2078 v-2079 v-2080 v-2081 v-2082 v-2083 v-2084 v-2085 v-2086 v-2087 v-2088 v-2089 v-2090 v-2091 v-2092 v-2093 v-2094 v-2095 v-2096 v-2097 v-2098 v-2099 v-2100 v-2101 v-2102 v-2103 v-2104 v-2105 v-2106 v-2107 v-2108 v-2109 v-2110 v-2111 v-2112 v-2113 v-2114 v-2115 v-2116 v-2117 v-2118 v-2119 v-2120 v-2121 v-2122 v-2123 v-2124 v-2125 v-2126 v-2127 v-2128 v-2129 v-2130 v-2131 v-2132 v-2133 v-2134 v-2135 v-2136 v-2137 v-2138 v-2139 v-2140 v-2141 v-2142 v-2143 v-2144 v-2145 v-2146 v-2147 v-2148 v-2149 v-2150 v-2151 v-2152 v-2153 v-2154 v-2155 v-2156 v-2157 v-2158 v-2159 v-2160 v-2161 v-2162 v-2163 v-2164 v-2165 v-2166 v-2167 v-2168 v-2169 v-2170 v-2171 v-2172 v-2173 v-2174 v-2175 v-2176 v-2177 v-2178 v-2179 v-2180 v-2181 v-2182 v-2183 v-2184 v-2185 v-2186 v-2187 v-2188 v-2189 v-2190 v-2191 v-2192 v-2193 v-2194 v-2195 v-2196 v-2197 v-2198 v-2199 v-2200 v-2201 v-2202 v-2203 v-2204 v-2205 v-2206 v-2207 v-2208 v-2209 v-2210 v-2211 v-2212 v-2213 v-2214 v-2215 v-2216 v-2217 v-2218 v-2219 v-2220 v-2221 v-2222 v-2223 v-2224 v-2225 v-2226 v-2227 v-2228 v-2229 v-2230 v-2231 v-2232 v-2233 v-2234 v-2235 v-2236 v-2237 v-2238 v-2239 v-2240 v-2241 v-2242 v-2243 v-2244 v-2245 v-2246 v-2247 v-2248 v-2249 v-2250 v-2251 v-2252 v-2253 v-2254 v-2255 v-2256 v-2257 v-2258 v-2259 v-2260 v-2261 v-2262 v-2263 v-2264 v-2265 v-2266 v-2267 v-2268 v-2269 v-2270 v-2271 v-2272 v-2273 v-2274 v-2275 v-2276 v-2277 v-2278 v-2279 v-2280 v-2281 v-2282 v-2283 v-2284 v-2285 v-2286 v-2287 v-2288 v-2289 v-2290 v-2291 v-2292 v-2293 v-2294 v-2295 v-2296 v-2297 v-2298 v-2299 v-2300 v-2301 v-2302 v-2303 v-2304 v-2305 v-2306 v-2307 v-2308 v-2309 v-2310 v-2311 v-2312 v-2313 v-2314 v-2315 v-2316 v-2317 v-2318 v-2319 v-2320 v-2321 v-2322 v-2323 v-2324 v-2325 v-2326 v-2327 v-2328 v-2329 v-2330 v-2331 v-2332 v-2333 v-2334 v-2335 v-2336 v-2337 v-2338 v-2339 v-2340 v-2341 v-2342 v-2343 v-2344 v-2345 v-2346 v-2347 v-2348 v-2349 v-2350 v-2351 v-2352 v-2353 v-2354 v-2355 v-2356 v-2357 v-2358 v-2359 v-2360 v-2361 v-2362 v-2363 v-2364 v-2365 v-2366 v-2367 v-2368 v-2369 v-2370 v-2371 v-2372 v-2373 v-2374 v-2375 v-2376 v-2377 v-2378 v-2379 v-2380 v-2381 v-2382 v-2383 v-2384 v-2385 v-2386 v-2387 v-2388 v-2389 v-2390 v-2391 v-2392 v-2393 v-2394 v-2395 v-2396 v-2397 v-2398 v-2399 v-2400 v-2401 v-2402 v-2403 v-2404 v-2405 v-

Lot ID: Z388356
Date Received : Aug 01, 2015
Date Reported : Aug 08, 2015
Report Number: 2730844-1

Sample Number	ZM-1						
Sampled Date	Avg. 61, 2023 10:00 AM						
Sample Description	Group 1 Whitehouse WW/Pond						
Location	WMH SL, WW/P, off as Retention Pond						
Date Analysis Commenced	Avg. 91, 2023						
Condition of Sample	Contained in clear amber glass bottles and seven plastic bottles; sample containers comply to pre-treatment - preservation standards per EPA, USFDA						
Physical Property	Dense water color, smell, and no turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Tester/Laboratory
Water Testing							
Total Organic Halogens as N *	ng/L	0.15	1.0	2.4	<150	Standard Methods for the Examination of Water and Wastewater, APHA, 8150-D & 8150-E, 23rd ed., 2017, part 4500mg/l [5]	Singapore
Total Dissolved Solids (TDS) at 25°C degree C	ng/L	-	5	70	<150	Standard Methods for the Examination of Water and Wastewater, APHA, 8150-D & 8150-E, 23rd ed., 2017, part 2540 D	Singapore

Guideline: Official standard for factories, industrial waste and industrial park set by Notification of the Ministry of Natural Resources and Environment and official standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, 06/2006 (2007).

Sampling By: Papat Viroachaschoe wvachaschoe@nra.gov.th-204-x-7109.

Remark: <LOD <LOQ

Guideline : Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

^a $\chi^2 = 1$ (less than 100 [200] of Qualifiers) / 100 [200] of Reporting.

Siriluk P.
 Siriluk Puangrong
 Section Head
 Siriluk Puangrong

Approved by
 Karolinn Anli
 Senior Manager
 Karolinn Anli

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 E/010115 +66 0 2760 9101 ext. 1000 / Web/010115 +66 0 2760 9100 / Fax/010115 +66 0 2760 9101

Date Reviewed : Aug 08, 2012
Date Reported : Aug 12, 2012
Report Number : 2738425-1

Sample Number	2304-14				
Sampled Date	Aug 09, 2023 11:29 AM				
Sample Description	Group 1 Waterborne Imps (Plant)				
Location	WAS-02, WIR-49 (a Retention Pond)				
Date Analysis Commenced	Aug 09, 2023				
Condition of Sample	Contained in two plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA, USEPA)				
Physical Property	Yellow, some odor, acid and no settled				
Analyte	Unit	LOD	LOQ	Result	Qualifier / Specification
Water Testing					
Ammonia	mg/L	-	25	13	Standard Methods for the Examination of Water and Wastewater - APHA, 1995 & EPA, 2014 vol. 2, 45.1 and 45.0 D
pH (at 25 °C)	-	-	-	5.5-6.0	Standard Methods for the Examination of Water and Wastewater - APHA, 1995 & EPA, 2014 vol. 2, 45.0 and 45.0 A (95)
Total Suspended Solids Dry of 100-100 Sieve C	mg/L	-	3	<5	Standard Methods for the Examination of Water and Wastewater - APHA, 1995 & EPA, 2014 vol. 2, 25.1 and 25.0 D
Guideline: Efficient standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resources and Environment and standard of factories and industrial park set by Notification of the Ministry of Industry dated June 07, 62296 (2017).					
Remarks:					
*LOD (Limit of Detection)					
**LOQ (Limit of Quantification) = LOQ (LOD of Reporting)					
***Analytical Method: Filtered and indistinct water at Accumulation (WAS-02)					
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.					

556

Technical Management: Suwimon C.
Suwimon Chaisangsubud
Scientist (3)

Approved by: Enokkorn Anok
Enokkorn Anok
Senior Manager
Department of Agriculture

environment v.204-e-5817

Date Received : Sep 08, 2011
Date Reported : Sep 12, 2011
Report Number : 2757664-1

[illegible]

Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.29	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF,	St
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Level	mg/L	0.0003	0.0005	0.001
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Meaning: *	regl	0.0001	0.0005	Not Determined
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Source	SS	df	F	p	η^2
Between	1.00	1	0.0003	0.0005	0.000
Within	1.00	1	0.0003	0.0005	0.000
Total	2.00	2	0.0003	0.0005	0.000

Model	RMSE	MAE	MAPE
ARIMA	0.00002	0.00002	0.0002
ARIMA + LSTM	0.00002	0.00002	0.0002
ARIMA + LSTM + GRU	0.00002	0.00002	0.0002

[illegible]

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Zinc	ng/L	0.003	0.005	0.07
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Committee N

Savitree Pongpan

Harper
703.696.4222

The gross results are added only to the performance category as indicated in the report. Weight of the category is 2.7 (after the Group/Market Weight adjustment).

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 08-21-2013 BY 60322 UCBAW/STP

RIGHT SOLUTIONS THROUGH

ภาคผนวก ค-6

คุณภาพน้ำทิ้ง (โรงงานอุตสาหกรรม)

TESTING

Date Reported : Jul 22, 2019
Report Number : 2763359

Sample Number	237604-1		
Sampled Date	Jul 01 2023 2:05 PM		
Sample Description	Group2 Wastewater WW-C7		
Contract ID	SLP-15-2354	Plot	61.62
		Site	SEN Corp.(Thailand) Co., Ltd.

Date Analysis Commenced	Jul 04 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards

Physical Property							
Analyte	Units	(MVA, ICD, ICD-2)		Result:	Guideline / Specification	Method	Tested Location
		Nitro-N, 1st of nitrate, solid and liquid	LUG				
Water Testing							
CO ₂ (5 days at 20 degrees C)	ng/L	-	2.0	152	1500	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM & ISO, 2nd ed., 2017, sec 9250-B	Berkeley
DOC	ng/L	-	25	403	1750	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM & ISO, 2nd ed., 2017, sec 9250-B	Berkeley
Oil & Grease *	ng/L	-	3	18	650	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM & ISO, 2nd ed., 2017, sec 9250-B	Berkeley
pH (in air) *	-	-	-	8.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM & ISO, 2nd ed., 2017, sec 9250-B	Berkeley
Temperature *	Degree C	-	-	33.1	< 40	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM & ISO, 2nd ed., 2017, sec 9250-B	Berkeley
Total Suspended Solids (Dried at 550C for 1 hour)	ng/L	-	150	100	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., APHA, ASTM & ISO, 2nd ed., 2017, sec 9250-B	Berkeley

Guideline : Standard of WHO for coliform faecal L and Maximum levels for wastewater discharge to central wastewater treatment plant

Sampling By: Jozsef Koltai koltai.jozsef@uni-due.de +354-4-7513

Theoretical Mechanism

Sunil Kumar C.
Sunil Kumar Channappa
Scientist (J)
Muziris Road, 704, 644007

Approved by K. Anil
Kandam Anil
Senior Manager
Muziris Road, 704, 644007

The above results are valid only for the analyzed control categories, as indicated in the report. The use of this report to corroborate any facts without sufficient reasons from the laboratory, R&D activities group (R&D) strongly recommends that the report is not interpreted/used in full.

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TESTING

Date Received : Jul 18, 2011
 Date Reported : Jul 18, 2011
 Report Number : 2702511

Sample Number	2370026.1
Sampled Date	Jul 06 2023 11:30 AM
Sample Describing Unit	Group 1 Wastewater WW-CT
Contract ID	SL 085 2558 Plot 144-145 Site Sakhalin-SCO Industrial Co., Ltd.

Location	Point 2
Date Analysis Commenced	Jul 07 2023

Condition of Sample	Contained in one amber glass bottle and three plastic bottles; sample containers comply to pretreatment - preservation standards (APHA/USEPA)
Physical Property	Colorless, odorless, no solid, and no turbid

Analyte	Unit	LOD (LOQ)	Result	Guideline / Specification	Method	Treatment Location
Water Testing (600 L Slits at 20 degrees C)	mg/L	-	2.0	1500	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, EPA, 2002, and 1015-B, 4010 - C-1	Angkor
COD	mg/L	-	25	< 1750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, EPA, 2002, and 1015-B	Angkor
pH & Ozone *	mg/L	-	3	< 130	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, EPA, 2002, and 1015-B	Angkor
pH (in situ) *	-	-	-	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, EPA, 2002, and 1015-B	Angkor
Temperature *	Degree C	-	18.8	19-45	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, EPA, 2002, and 1015-B	Angkor
Total Suspended Solids (Grit at 105-150 degree C)	mg/L	-	5	< 1000	Standard Methods for the Examination of Water and Wastewater, APHA, 1995 & 1998, EPA, 2002, and 1015-B	Angkor

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

^a * = lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Technical Management 
Norin Sattang
Supervisor
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Approved by 
Karokorn Aoki
Senior Manager
verizonand@msu.edu

The above results are valid only for the independent variables as indicated in this report. Results of this report do not necessarily apply to any other related variables. Results from the following 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 83

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TESTING

Date Reported : AA 13, 20
Report Number : 2703579

Sample Number	2376074-1
Sampled Date	Jul 06 2023 10:00 AM
Sample Description	Group 2 Wastewater WW-CT
Contract ID	CR 013 1014
Site	San Jose City Co. 104

Date Analysis Commenced Jul 07 2023

Physical Property	(AFHA/USEPA) Green; some odour, some solid, and turbid
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Analysis	Unit	LOD	LOD	Result	Guideline / Specification	Harmful	Learn from
Water Testing BOD ₅ (5 days 20 degree C)	mg/L		2.0	17.8	0.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 19th edn, 2005, 2017, 2018	Benjamin
COD	mg/L	25	82		1750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 19th edn, 2005, 2017, 2018	Benjamin
Formaldehyde *	mg/L	0.02	0.1	Not Detected	61	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 19th edn, 2005, 2017, 2018	Benjamin
Oil & Grease *	mg/L		3	5	130	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 19th edn, 2005, 2017, 2018	Benjamin
pH (on site) *					7.8	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 19th edn, 2005, 2017, 2018	Benjamin
Temperature *	Degree C			23.7	645	Standard Methods for the Examination of Water and Wastewater, APHA, 1995, 19th edn, 2005, 2017, 2018	Benjamin
	mg/L		8	99	<1000		

total suspended solids (TSS) at 103-105 degree C	mg/L	5	4.7	3.25M	Standard methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540-D	sample
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Guideline : Standard of WHO Sanabel Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Teerasak Puangakul via (02) 254-57307
(book)

Technical Management  Approved by 

North Gentry
Supervisor

Karishma Arni
Senior Manager

The above results do not say if the individual's capacity is reduced in this report, though if the report is accurate it may be interpreted in any form without further comment from the subject's doctor. A/1's doctor's report (A/1's doctor's report) shows that the report is not significant except in full.

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111 Moo 7, Nongpladred Road, Nongpladred, Nongkham, Sakon Nakhon Thailand 21140
P/O :
Project Name : Factory Monthly
Project Location : UDA 52.

Sample Number	2370036, 1							Page 1 of 2
Sample Date	Jul 11, 2021 11:27 AM							
Sample Description	Group 2 Wastewater WQC							
Sample ID	230-00-205A	Plot #9			Site	San Joaquin Hills, CA 94124		
Data Analysis Completion Date of Sample	11/11/2021							
Physical Property	Combined in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation data (SW-846)							
Analysis	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location	
Methyle Testing Lead	mg/L	0.0003	0.0003	0.03	<LO	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 312.0 B-9000	Berkeley	
Water Testing BOD (5 Day @ 20 degree C)	mg/L		2.0	<2.0	<500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 521.0 B-9000	Berkeley	
COD	mg/L		25	23	<5750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 522.0 B-9000	Berkeley	
Oil & Grease *	mg/L		1	<1	610	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 512.0 B-9000	Berkeley	
pH (on site)				7.8	5.5-8.5	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 2520 B-9000	Berkeley	
Temperature *	Degree C			30.9	1-41	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 2510 B-9000	Berkeley	
Total Dissolved Solids Dried at 180 degree C			5	2388	<3000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 2540 B-9000	Berkeley	
Total Suspended Solids Dried at 180-185 degree C			5	<5	<200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2017, test 2545 B-9000	Berkeley	

Guideline : Standard of Wtq4 Sarabai Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant

[illegible]

111 Plot 7, Nongpland Road, Nongpland, Nongkhai, Sakon Nakhon Thailand 48140
P/O :
Project Name : Factory / Monthly
Business Location : 00000, 000

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[illegible]

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P/O :
Project Name : Factory Monthly

Appendix 1: Environmental Monitoring Data							Page 4 of 4
Sample Number	23766						
Sample Date	Jul 06, 2013 10:35 AM						
Sample Description	Group 3 Wastewater WFF-CF						
Control ID	IS, 204, 254	Plot	9.15	Site : San Joaquin Department (Dardak) CA, US			
Location	Factory 1						
Data Analysis Comment	Jul 07, 2013						
Condition of Sample	Confirmed to be enter glass bottles and three plastic bottles, sample containers comply to pre-treatment : preservation standards (APHA)						
Physical Property	Soluble, odorous, no pH, no color						
Analysis	Unit	LOD (μ g/L)	Result	Guideline / Specification	Method	Testing Location	
Water Testing							
BOD-5 (20 \pm 2 degree C)	mg/L	-	2.0	<2.0	5760	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2005, 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, 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3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 39	

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

Technical Management

Chen S

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Yan A

Executive Vice
Senior Manager
enrollment >200k-4753

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00000001, 00000002, 00000003, 00000004, 00000005, 00000006, 00000007, 00000008, 00000009, 00000010, 00000011, 00000012, 00000013, 00000014, 00000015, 00000016, 00000017, 00000018, 00000019, 00000020, 00000021, 00000022, 00000023, 00000024, 00000025, 00000026, 00000027, 00000028, 00000029, 00000030, 00000031, 00000032, 00000033, 00000034, 00000035, 00000036, 00000037, 00000038, 00000039, 00000040, 00000041, 00000042, 00000043, 00000044, 00000045, 00000046, 00000047, 00000048, 00000049, 00000050, 00000051, 00000052, 00000053, 00000054, 00000055, 00000056, 00000057, 00000058, 00000059, 00000060, 00000061, 00000062, 00000063, 00000064, 00000065, 00000066, 00000067, 00000068, 00000069, 00000070, 00000071, 00000072, 00000073, 00000074, 00000075, 00000076, 00000077, 00000078, 00000079, 00000080, 00000081, 00000082, 00000083, 00000084, 00000085, 00000086, 00000087, 00000088, 00000089, 00000090, 00000091, 00000092, 00000093, 00000094, 00000095, 00000096, 00000097, 00000098, 00000099, 00000100, 00000101, 00000102, 00000103, 00000104, 00000105, 00000106, 00000107, 00000108, 00000109, 00000110, 00000111, 00000112, 00000113, 00000114, 00000115, 00000116, 00000117, 00000118, 00000119, 00000120, 00000121, 00000122, 00000123, 00000124, 00000125, 00000126, 00000127, 00000128, 00000129, 00000130, 00000131, 00000132, 00000133, 00000134, 00000135, 00000136, 00000137, 00000138, 00000139, 00000140, 00000141, 00000142, 00000143, 00000144, 00000145, 00000146, 00000147, 00000148, 00000149, 00000150, 00000151, 00000152, 00000153, 00000154, 00000155, 00000156, 00000157, 00000158, 00000159, 00000160, 00000161, 00000162, 00000163, 00000164, 00000165, 00000166, 00000167, 00000168, 00000169, 00000170, 00000171, 00000172, 00000173, 00000174, 00000175, 00000176, 00000177, 00000178, 00000179, 00000180, 00000181, 00000182, 00000183, 00000184, 00000185, 00000186, 00000187, 00000188, 00000189, 00000190, 00000191, 00000192, 00000193, 00000194, 00000195, 00000196, 00000197, 00000198, 00000199, 00000200, 00000201, 00000202, 00000203, 00000204, 00000205, 00000206, 00000207, 00000208, 00000209, 00000210, 00000211, 00000212, 00000213, 00000214, 00000215, 00000216, 00000217, 00000218, 00000219, 00000220, 00000221, 00000222, 00000223, 00000224, 00000225, 00000226, 00000227, 00000228, 00000229, 00000230, 00000231, 00000232, 00000233, 00000234, 00000235, 00000236, 00000237, 00000238, 00000239, 00000240, 00000241, 00000242, 00000243, 00000244, 00000245, 00000246, 00000247, 00000248, 00000249, 00000250, 00000251, 00000252, 00000253, 00000254, 00000255, 00000256, 00000257, 00000258, 00000259, 00000260, 00000261, 00000262, 00000263, 00000264, 00000265, 00000266, 00000267, 00000268, 00000269, 00000270, 00000271, 00000272, 00000273, 00000274, 00000275, 00000276, 00000277, 00000278, 00000279, 00000280, 00000281, 00000282, 00000283, 00000284, 00000285, 00000286, 00000287, 00000288, 00000289, 00000290, 00000291, 00000292, 00000293, 00000294, 00000295, 00000296, 00000297, 00000298, 00000299, 00000300, 00000301, 00000302, 00000303, 00000304, 00000305, 00000306, 00000307, 00000308, 00000309, 00000310, 00000311, 00000312, 00000313, 00000314, 00000315, 00000316, 00000317, 00000318, 00000319, 00000320, 00000321, 00000322, 00000323, 00000324, 00000325, 00000326, 00000327, 00000328, 00000329, 00000330, 00000331, 00000332, 00000333, 00000334, 00000335, 00000336, 00000337, 00000338, 00000339, 00000340, 00000341, 00000342, 00000343, 00000344, 00000345, 00000346, 00000347, 00000348, 00000349, 00000350, 00000351, 00000352, 00000353, 00000354, 00000355, 00000356, 00000357, 00000358, 00000359, 00000360, 00000361, 00000362, 00000363, 00000364, 00000365, 00000366, 00000367, 00000368, 00000369, 00000370, 00000371, 00000372, 00000373, 00000374, 00000375, 00000376, 00000377, 00000378, 00000379, 00000380, 00000381, 00000382, 00000383, 00000384, 00000385, 00000386, 00000387, 00000388, 00000389, 00000390, 00000391, 00000392, 00000393,



111 Moo 7, Songkhrakul Road, Nongkham, Nongbua, Saraburi Thailand 18190
P/O :
Project Name : Factory Monthly
Project Location: WPA 52.

Summary By : Karanvir Suthra mscs2001@iitd.ac.in >20a-0034

Remark :

- 1.15 : Limit of Sequence
- *4* : Limit from ϵ - δ (Limit of Quantification) / ϵ - N (Limit at Infinity)
- Analysis (partial) : Notes will circulate in shape of Quantification, $\forall \epsilon \exists N$, $\exists \epsilon \forall N$.
- The library has been accepted as an accredited library complying with the [AISOC](http://www.aisoc.org) 11021.

[illegible]

113 Plot 7, Nongkhalai Road, Nongkhalai, Nongkhalai, Saraburi Thailand 18140
P/O :
Project Name : Factory / Monthly
Product Location: 18140, 079

Sample Number	2276						Exp. No. 1
Sample Description	14.12.2012 13:20 BPH						Date
Contact ID	Group 2 (Sample 2276)	Phat 1				Site	Sam Purnom-Corpus Ltd
Sample Analysis Comment	SL 103-2260						
Condition of Sample	SL 103-2013						
Physical Property	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment / preservation data (ISO 15687)						
Analysis	Visual, some odour, some solid, and turbid						
Water	Unit	LOD	LOD	Result	Guideline / Specification	Testing Location	
Water Testing							
BOD 5 days at 20 degree C	mg/L	< 2.0	1.1	<500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5215 & part 4000 - 100	Berglund	
COO	mg/L	< 25	14	<750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5215 & part 4000 - 100	Berglund	
Oil & Grease *	mg/L	< 3	4	<10	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 5215 & part 4000 - 100	Berglund	
pH (on site)				7.4	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 4500 - 100	Berglund
Temperature *	degree C			<17	<16	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 1905 - 100	Berglund
Total Suspended Solids Determined at 183.550 Euro	mg/L	< 8	<3	<200	<200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2013, part 2540 - 100	Berglund

Guidelines : Standard of WHO (Swiss) Industrial Land, Maximum levels of wastewater / effluent discharge to central wastewater treatment plant.

Sampling By : Kamath Sathya sathya@gmail.com v20-24-0114

Issued at : 11:02 : 11/04/2013

* " - " : Lower from 10% of Guideline / Specification

Analytical method : Sample not included in any of the guideline

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

[illegible]

111 Moo 7, Nongplairad Road, Nongplairad, Nongkhai, Saraburi Thailand 18192
9/0 :
Project Name : Factory / Monthly

Sample Number							27376	Page 1 of 1	
Sample Date							31 Jul 2023 2:55 PM		
Sample Description							Group 2 Wastewater WtW-CF		
Contract ID							351_167_2304	Test	42.75.95
Analysis Type							Factory 1		
Data Analysis Comments							31-Jul-2023		
Condition of Sample							Combined to one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - pre-analysis standards (APHA, USEPA)		
Physical Property							value = value, unit, and test method		
Analysis							Unit	LOD	Result
Waters Testing							mg/L	2.0	5.3
800-135 °C									1500
COD							mg/L	25	79
DN & Grease *							mg/L	3	110
pH (on-site) *								7.8	5.5 & 6.0
Temperature *								13.1	14.5
Total Suspended Solids Direct at 105-155 °C							mg/L	5	1500
Summary: Standard of 1995 SWS Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.									
Sampling By: J. Avelar, Kuchel Environmental - 2/04/23/27									
* =									
LOD = Limit of Detection									
1500 = Limit Lower (1/2 Limit of Quantitation) (1/2 LOD of expected)									
APHA tested 1 Sample, tested and analyzed in case of Accreditation (1995-2105).									

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

[illegible]

P/O :
Project Name : Factory Monthly
Project Location : WNA 52

Sample Number	220701-1						
Sampled Date	Jul 03 2023						
Sample Description	Gra-02 Wastewater HW-CT						
Container ID	GS-200-2014						
Date Analysis Commenced	Jul 04 2023						
Condition of Sample	WFOU (WFOU)						
Physical Property	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pre-treatment - preservation (see Method 8000) for metals, some volume, a lot of solid and no residue						
Analyte	Unit	LOG	LOG [Lower]	Result	Guideline / Specification	Method	Tested Location
Metal Testing Limit	ng/L	-	0.0001	0.0005	0.05	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	
						2017 ed., Part 122.6, Section 7	
Water Testing							
WC01-FI (S&T @ 25 Degrees C)	ng/L	-	2.0	2.0	<100	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	
COD	ng/L	-	25	30	<750	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	
Oil & Grease %	ng/L	-	3	>3	<10	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	
pH (at 25 °C)	-	-	-	7.8	6.5-8.0	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	
Temperature, °C	Degree C	-	-	33.3	<45	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	
Total Dissolved Solids Fixed @ 180 Degree C	mg/L	-	\$	1400	<1000	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	
Total Suspended Solids (Total at 105-150 degree C)	mg/L	-	\$	<5	<100	Standard Methods, for the Estimation of water and wastewater, APHA, 69005 & 8000	Samp
						2017 ed., Part 122.6, Section 7	

Guideline: Standard of WMA Sanyuan Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant

[illegible]

P/O :
Project Name : Factory Monthly
Product / Specification : 100% CO

[illegible][illegible]

111 Moo 7, Nonglakrudi Road, Nonglakmoh, Nongkhai, Saraburi Thailand 18140
P/O :
Project Name : Factory Monthly

Sample Number		3731-1			
Sample Date		Jul 06, 2012 11:00 AM			
Sample Description		Group 2 Underflow Wt-CT			
Contract ID		505, 204		Phas	74
Site Address		Jul 07, 2012		Site Name: IGR Fachhochschule Co., Ltd.	
Condition of Sample (Indicate if the water glass has three plastic bottles, sample containers comply to pre-treatment - preservation of sample) Yellow, no color, some solid, and turbid					
Physical Property					
analyzer	Unit	LOD	LOQ	Result	Comment / Specification
Water Testing					
DO (0.1 mg/L at 25 degrees C)	mg/L	-	2.0	16.2	Standard method for the Examination of Water and Wastewater, 19th edition, APHA, 2005, 19th ed. 2104 ml, 2017, part 5213.8 (m)
COO	mg/L	-	25	394	Standard method for the Examination of Water and Wastewater, APHA, 2005, 19th ed. 2104 ml, 2017, part 5213.9 (m)
Oil & Grease *	mg/L	-	3	5	Standard method for the Examination of Water and Wastewater, 19th edition, APHA, 2005, 19th ed. 2104 ml, 2017, part 5213.9 (m)
pH (in ml/L) *	-	-	-	7.4	Standard method for the Examination of Water and Wastewater, 19th edition, APHA, 2005, 19th ed. 2104 ml, 2017, part 4510 (m-8)
Temperature *	°C	-	-	18.6	Standard method for the Examination of Water and Wastewater, 19th edition, APHA, 2005, 19th ed. 2104 ml, 2017, part 1800 (m)
Total Suspended Solids (TSS) at 100-100 degree C	mg/L	-	5	27	Standard method for the Examination of Water and Wastewater, 19th edition, APHA, 2005, 19th ed. 2104 ml, 2017, part 2540 (m)

Guidelines: Standard of ISO Sanvier Industrial Ltd. Maximum limits for wastewater discharge to central wastewater treatment plant.

Sampling Site: Central Sewerage (industrial + domestic) >30m

Remarks:

- * - Limit of Detection
- * - Lower than LOQ (Limit of Quantitation) (LOQ Limit of Reporting)
- Indicate method * Number of replicable sample (n)

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

[illegible]

Lot ID: 2388000
Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2796217-1

Page 10

Sample Number	238000-1
Sampled Date	Aug 07, 2023 11:15 AM

Sample Description	Group 2 Wastewater (GC 16)						
Sample Analysis Commenced	Aug 19, 2023	Instrument	Year	Site	TS Team (Thailand)	GC ID	
Condition of Sample (Analyte)	Various, some in plastic bottles and one amber glass bottle, sample containers comply to pre-treatment – preservation conditions						
Physical Property	Volatiles, some odour, solid and turbid						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	
Water Testing							
BOD (3 days @ 20 degC)	mg/L	-	2.0	19.3	1500	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, page 5210-5	Bergholm
COD	mg/L	-	25	116	2750	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, page 5212-3	Bergholm
Oil & Grease *	mg/L	-	3	4	130	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, page 5503-8	Bergholm
pH (on site) *	-	-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, page 4505-10	Bergholm
Temperature *	Degree C	-	-	19.7	140	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, page 4505-10	Bergholm
Total Suspended Solids (dry @ 103 degC)	mg/L	-	5	25	4200	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, page 2550-9	Bergholm

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

Sampling By : Naraseth Permpoon (0040419-204-9-7516)

Siriluk P.
 Senior Pumping
 Section Head

Approved by
 Karolkorn Anob
 Senior Manager
 wiroonchai.v.20@gmail.com

The above results are valid only for the analysed local samples; as indicators in the report, the use of the report to estimate any key defined within certain business categories, the local community group (national) should be considered that the report is not representative of the local.

AKHISI 154 Phatthanakan Rd., Phatthanakan Rd., Khaoeng Phatthanakan, Khao Suan Luang, Bangkok 10170 Thailand / T(+66) 0 2 750 1000 / FAX (+66) 0 2 750 1119
 Dr. S. Laksathienkiet, Director / dr.s.laksathienkiet@akhisi.com / Dr. S. Laksathienkiet, Emergency
www.akhisi.com

Lot ID: 2388006
Date Received : Aug 02, 2023
Date Reported : Aug 09, 2023
Report Number : 2790240-1

Page 1 of 1

Sample Number	Z59906-1
Sample Date	Aug 19, 2023 1:40 PM

<p>Sample Description</p> <p>Group 2 (waterborne) PM-1 PM-10 Site WPM Corporation Public Limited Company</p> <p>Date Analyzed 05/07/2014 Flow (L/min) 150 (150)</p> <p>Date Analysis Commenced Aug 1, 2013</p> <p>Condition of Sample (APPROX) Compared to a new amber glass bottles and three plastic bottles, sample containers comply to posttreatment - preservation standards</p> <p>Physical Property Yellow, a lot of oil, some, white solid and turbid</p>							
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Lab
Water Testing							
ECO (15 ml @ 20 degree C)	mg/L		2.0	18.4	1300	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, part 9120 D	Berglund
COO	mg/L	25	50		4750	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, part 9120 D	Berglund
Oil & Grease *	mg/L		3	4	130	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, part 9120 D	Berglund
pH (in air) *				7.3	15-0-0	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, part 9120 D	Berglund
Temperature *	Degree C			32.1	140	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, part 9120 D	Berglund
Total Dissolved Solids (in air @ 1800 ISO degree C)	mg/L		3	28	1200	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2011, part 9120 D	Berglund

Guideline: Standard of WHO Sanitary Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant.

Sampling By: Chulaborn Watanasakulrat v-204-v-6120

Technical Management

Siriluk P.
Senior Planning
Section Head
08-76900000 ext. 4766

Approved by

Kank Aek
Kankam Aek
Senior Manager
ext. 4040-4111

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 Atty 5 LAOCHAIWATY JOURNAL (Private) Co., Ltd. An A/C's limited company
 E-mail: info@laochaiwaty.com www.laochaiwaty.com

Lot ID: 23100365
Date Received : Sep 01, 2023
Date Reported : Sep 07, 2023
Report Number : 2758194.1

71

Sample Number	2310005-1
Sampled Date	Sep 3, 2023 11:40 AM

Sample Identification	Sample ID	Plate	Site	Acq. Location (Thailand) Co., Ltd.			
Date/Time Collected	10 Jul 2024						
Description of Sample	Collected in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards (ISO 15924)						
Physical Property	Yellow, some odorless, and odd no-taste						
Analyte	Unit	LOQ	LOQ (µg/L)	Result	Continue / Specification	Method	Learning
Water Testing							
BOD (5 days @ 20 degree C)	mg/L	-	2.0	14.5	1500	Standard Methods for the Examination of Water and Wastewater (APHA, 2018) & ISO 15924, part 6253 & part 4000 - 6	Bergholm
COD	mg/L	-	25	73	2750	Standard Methods for the Examination of Water and Wastewater (APHA, 2018) & ISO 15924, part 6253 & part 4000 - 6	Bergholm
Oil & Grease *	mg/L	-	3	<3	630	Standard Methods for the Examination of Water and Wastewater (APHA, 2018) & ISO 15924, part 6253 & part 4000 - 6	Bergholm
pH (on site) *	-	-	-	8.8	5.5-8.0	Standard Methods for the Examination of Water and Wastewater (APHA, 2018) & ISO 15924, part 6253 & part 4000 - 6	Bergholm
Temperature *	°C	-	-	35.5	14°	Standard Methods for the Examination of Water and Wastewater (APHA, 2018) & ISO 15924, part 6253 & part 4000 - 6	Bergholm
Total Suspended Solids Dry at 105-120 degree C	mg/L	-	3	13	1200	Standard Methods for the Examination of Water and Wastewater (APHA, 2018) & ISO 15924, part 6253 & part 4000 - 6	Bergholm

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

Sampling By: Horvath Karl (khorvath@204-5411)

Technical Management  Approved by 
 Scientist - (Chemical) Karishma Anil
 Scientist - (3) Senior Manager
 wsc@nrg.gov.in, 2-238-5447 wsc@nrg.gov.in, 2-238-5447

The above results are valid only for the randomization samples as indicated in the legend. In all of the reports a certificate may be requested in any form allowed within consent from the subject(s). All collection times (Phase) through assessment that the report is not significant except in full.

Unit No. 108 Phrahitakul Rd., Phrahitakul Rd., Khosang Phrahitakul, Wat So Luang, Bangkok 10210 Thailand | PHONE +66 0 2790 3090 | FAX +66 0 2790 3141
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Lot ID: 23100366
Date Received : Sep 05, 2023
Date Reported : Sep 07, 2023
Report Number : 2758195-1

Sample Number	23100864-1
Sampled Date	Sep 01, 2023 9:55 AM
Sample Description	Group 2 Wastewater WFF-CT

Contract ID	Test 10.13	ISO 9001:2015				
Date Sampled	Site 10.13					
Component / Sample Description	Contained in two amber glass bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (WPA-608P)					
Physical Property	Water, some plastic, solid and metal					
Analyte	VHR	LSD	Result:	Guideline / Specification	Method	Testing Location
	(ppm)	(ppm)				
Water Testing BOD (5 days at 20 degree C)	n/A	2.0	5.4	1500	The Examination of Water and Wastewater, 19th Edition, APHA, 2005 & 2nd ed., 2017, pp. 5218 & 5191	Berkeley
COD	n/A	25	39	5700	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 & 2nd ed., 2017, pp. 5218 & 5191	Berkeley
Oil & Grease "	n/A	3	<3	610	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 & 2nd ed., 2017, pp. 6533-6	Berkeley
pH (on site) "			7.2	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 & 2nd ed., 2017, pp. 6052 - 6103	Berkeley
Temperature "	Degree C		15.3	14C	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 & 2nd ed., 2017, pp. 2201 - 2202	Berkeley
Total Suspended Solids (dry at 105 deg C)	n/A	5	13	1200	Standard Methods for the Examination of Water and Wastewater, APHA, 2005 & 2nd ed., 2017, pp. 2550 - 2551	Berkeley

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

Sampling By: Noreast Kamel co(Gasoul) + 204 + 5411

Remark:

- LOF = Limit of Detection
- LOQ = Limit of Quantification
- LOD (Limit of Reporting)
- Methodology included * higher and Excluded water use of (Standard ISO/IEC 17025).
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

[illegible]

No. 0009
Lot ID: 23100405
 Date Received : Sep 06, 2023
 Date Reported : Sep 07, 2023
 Report Number : 2798326-1

Sample Number	2110095-1
Sampled Date	Sep 01, 2023 10:50 AM
Sample Description	Group 2 Wastewater WW-CF

Contract ID	Phase	Site	Sensor Platform (Thalys Co., Ltd.)
Data and Sample			
15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 310, 315, 320, 325, 330, 335, 340, 345, 350, 355, 360, 365, 370, 375, 380, 385, 390, 395, 400, 405, 410, 415, 420, 425, 430, 435, 440, 445, 450, 455, 460, 465, 470, 475, 480, 485, 490, 495, 500, 505, 510, 515, 520, 525, 530, 535, 540, 545, 550, 555, 560, 565, 570, 575, 580, 585, 590, 595, 600, 605, 610, 615, 620, 625, 630, 635, 640, 645, 650, 655, 660, 665, 670, 675, 680, 685, 690, 695, 700, 705, 710, 715, 720, 725, 730, 735, 740, 745, 750, 755, 760, 765, 770, 775, 780, 785, 790, 795, 800, 805, 810, 815, 820, 825, 830, 835, 840, 845, 850, 855, 860, 865, 870, 875, 880, 885, 890, 895, 900, 905, 910, 915, 920, 925, 930, 935, 940, 945, 950, 955, 960, 965, 970, 975, 980, 985, 990, 995, 1000, 1005, 1010, 1015, 1020, 1025, 1030, 1035, 1040, 1045, 1050, 1055, 1060, 1065, 1070, 1075, 1080, 1085, 1090, 1095, 1100, 1105, 1110, 1115, 1120, 1125, 1130, 1135, 1140, 1145, 1150, 1155, 1160, 1165, 1170, 1175, 1180, 1185, 1190, 1195, 1200, 1205, 1210, 1215, 1220, 1225, 1230, 1235, 1240, 1245, 1250, 1255, 1260, 1265, 1270, 1275, 1280, 1285, 1290, 1295, 1300, 1305, 1310, 1315, 1320, 1325, 1330, 1335, 1340, 1345, 1350, 1355, 1360, 1365, 1370, 1375, 1380, 1385, 1390, 1395, 1400, 1405, 1410, 1415, 1420, 1425, 1430, 1435, 1440, 1445, 1450, 1455, 1460, 1465, 1470, 1475, 1480, 1485, 1490, 1495, 1500, 1505, 1510, 1515, 1520, 1525, 1530, 1535, 1540, 1545, 1550, 1555, 1560, 1565, 1570, 1575, 1580, 1585, 1590, 1595, 1600, 1605, 1610, 1615, 1620, 1625, 1630, 1635, 1640, 1645, 1650, 1655, 1660, 1665, 1670, 1675, 1680, 1685, 1690, 1695, 1700, 1705, 1710, 1715, 1720, 1725, 1730, 1735, 1740, 1745, 1750, 1755, 1760, 1765, 1770, 1775, 1780, 1785, 1790, 1795, 1800, 1805, 1810, 1815, 1820, 1825, 1830, 1835, 1840, 1845, 1850, 1855, 1860, 1865, 1870, 1875, 1880, 1885, 1890, 1895, 1900, 1905, 1910, 1915, 1920, 1925, 1930, 1935, 1940, 1945, 1950, 1955, 1960, 1965, 1970, 1975, 1980, 1985, 1990, 1995, 2000, 2005, 2010, 2015, 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055, 2060, 2065, 2070, 2075, 2080, 2085, 2090, 2095, 2100, 2105, 2110, 2115, 2120, 2125, 2130, 2135, 2140, 2145, 2150, 2155, 2160, 2165, 2170, 2175, 2180, 2185, 2190, 2195, 2200, 2205, 2210, 2215, 2220, 2225, 2230, 2235, 2240, 2245, 2250, 2255, 2260, 2265, 2270, 2275, 2280, 2285, 2290, 2295, 2300, 2305, 2310, 2315, 2320, 2325, 2330, 2335, 2340, 2345, 2350, 2355, 2360, 2365, 2370, 2375, 2380, 2385, 2390, 2395, 2400, 2405, 2410, 2415, 2420, 2425, 2430, 2435, 2440, 2445, 2450, 2455, 2460, 2465, 2470, 2475, 2480, 2485, 2490, 2495, 2500, 2505, 2510, 2515, 2520, 2525, 2530, 2535, 2540, 2545, 2550, 2555, 2560, 2565, 2570, 2575, 2580, 2585, 2590, 2595, 2600, 2605, 2610, 2615, 2620, 2625, 2630, 2635, 2640, 2645, 2650, 2655, 2660, 2665, 2670, 2675, 2680, 2685, 2690, 2695, 2700, 2705, 2710, 2715, 2720, 2725, 2730, 2735, 2740, 2745, 2750, 2755, 2760, 2765, 2770, 2775, 2780, 2785, 2790, 2795, 2800, 2805, 2810, 2815, 2820, 2825, 2830, 2835, 2840, 2845, 2850, 2855, 2860, 2865, 2870, 2875, 2880, 2885, 2890, 2895, 2900, 2905, 2910, 2915, 2920, 2925, 2930, 2935, 2940, 2945, 2950, 2955, 2960, 2965, 2970, 2975, 2980, 2985, 2990, 2995, 3000, 3005, 3010, 3015, 3020, 3025, 3030, 3035, 3040, 3045, 3050, 3055, 3060, 3065, 3070, 3075, 3080, 3085, 3090, 3095, 3100, 3105, 3110, 3115, 3120, 3125, 3130, 3135, 3140, 3145, 3150, 3155, 3160, 3165, 3170, 3175, 3180, 3185, 3190, 3195, 3200, 3205, 3210, 3215, 3220, 3225, 3230, 3235, 3240, 3245, 3250, 3255, 3260, 3265, 3270, 3275, 3280, 3285, 3290, 3295, 3300, 3305, 3310, 3315, 3320, 3325, 3330, 3335, 3340, 3345, 3350, 3355, 3360, 3365, 3370, 3375, 3380, 3385, 3390, 3395, 3400, 3405, 3410, 3415, 3420, 3425, 3430, 3435, 3440, 3445, 3450, 3455, 3460, 3465, 3470, 3475, 3480, 3485, 3490, 3495, 3500, 3505, 3510, 3515, 3520, 3525, 3530, 3535, 3540, 3545, 3550, 3555, 3560, 3565, 3570, 3575, 3580, 3585, 3590, 3595, 3600, 3605, 3610, 3615, 3620, 3625, 3630, 3635, 3640, 3645, 3650, 3655, 3660, 3665, 3670, 3675, 3680, 3685, 3690, 3695, 3700, 3705, 3710, 3715, 3720, 3725, 3730, 3735, 3740, 3745, 3750, 3755, 3760, 3765, 3770, 3775, 3780, 3785, 3790, 3795, 3800, 3805, 3810, 3815, 3820, 3825, 3830, 3835, 3840, 3845, 3850, 3855, 3860, 3865, 3870, 3875, 3880, 3885, 3890, 3895, 3900, 3905, 3910, 3915, 3920, 3925, 3930, 3935, 3940, 3945, 3950, 3955, 3960, 3965, 3970, 3975, 3980, 3985, 3990, 3995, 4000, 4005, 4010, 4015, 4020, 4025, 4030, 4035, 4040, 4045, 4050, 4055, 4060, 4065, 4070, 4075, 4080, 4085, 4090, 4095, 4100, 4105, 4110, 4115, 4120, 4125, 4130, 4135, 4140, 4145, 4150, 4155, 4160, 4165, 4170, 4175, 4180, 4185, 4190, 4195, 4200, 4205, 4210, 4215, 4220, 4225, 4230, 4235, 4240, 4245, 4250, 4255, 4260, 4265, 4270, 4275, 4280, 4285, 4290, 4295, 4300, 4305, 4310, 4315, 4320, 4325, 4330, 4335, 4340, 4345, 4350, 4355, 4360, 4365, 4370, 4375, 4380, 4385, 4390, 4395, 4400, 4405, 4410, 4415, 4420, 4425, 4430, 4435, 4440, 4445, 4450, 4455, 4460, 4465, 4470, 4475, 4480, 4485, 4490, 4495, 4500, 4505, 4510, 4515, 4520, 4525, 4530, 4535, 4540, 4545, 4550, 4555, 4560, 4565, 4570, 4575, 4580, 4585, 4590, 4595, 4600, 4605, 4610, 4615, 4620, 4625, 4630, 4635, 4640, 4645, 4650, 4655, 4660, 4665, 4670, 4675, 4680, 4685, 4690, 4695, 4700, 4705, 4710, 4715, 4720, 4725, 4730, 4735, 4740, 4745, 4750, 4755, 4760, 4765, 4770, 4775, 4780, 4785, 4790, 4795, 4800, 4805, 4810, 4815, 4820, 4825, 4830, 4835, 4840, 4845, 4850, 4855, 4860, 4865, 4870, 4875, 4880, 4885, 4890, 4895, 4900, 4905, 4910, 4915, 4920, 4925, 4930, 4935, 4940, 4945, 4950, 4955, 4960, 4965, 4970, 4975, 4980, 4985, 4990, 4995, 5000, 5005, 5010, 5015, 5020, 5025, 5030, 5035, 5040, 5045, 5050, 5055, 5060, 5065, 5070, 5075, 5080, 5085, 5090, 5095, 5100, 5105, 5110, 5115, 5120, 5125, 5130, 5135, 5140, 5145, 5150, 5155, 5160, 5165, 5170, 5175, 5180, 5185, 5190, 5195, 5200, 5205, 5210, 5215, 5220, 5225, 5230, 5235, 5240, 5245, 5250, 5255, 5260, 5265, 5270, 5275, 5280, 5285, 5290, 5295, 5300, 5305, 5310, 5315, 5320, 5325, 5330, 5335, 5340, 5345, 5350, 5355, 5360, 5365, 5370, 5375, 5380, 5385, 5390, 5395, 5400, 5405, 5410, 5415, 5420, 5425, 5430, 5435, 5440, 5445, 5450, 5455, 5460, 5465, 5470, 5475, 5480, 5485, 5490, 5495, 5500, 5505, 5510, 5515, 5520, 5525, 5530, 5535, 5540, 5545, 5550, 5555, 5560, 5565, 5570, 5575, 5580, 5585, 5590, 5595, 5600, 5605, 5610, 5615, 5620, 5625, 5630, 5635, 5640, 5645, 5650, 5655, 5660, 5665, 5670, 5675, 5680, 5685, 5690, 5695, 5700, 5705, 5710, 5715, 5720, 5725, 5730, 5735, 5740, 5745, 5750, 5755, 5760, 5765, 5770, 5775, 5780, 5785, 5790, 5795, 5800, 5805, 5810, 5815, 5820, 5825, 5830, 5835, 5840, 5845, 5850, 5855, 5860, 5865, 5870, 5875, 5880, 5885, 5890, 5895, 5900, 5905, 5910, 5915, 5920, 5925, 5930, 5935, 5940, 5945, 5950, 5955, 5960, 5965, 5970, 5975, 5980, 5985, 5990, 5995, 6000, 6005, 6010, 6015, 6020, 6025, 6030, 6035, 6040, 6045, 6050, 6055, 6060, 6065, 6070, 6075, 6080, 6085, 6090, 6095, 6100, 6105, 6110, 6115, 6120, 6125, 6130, 6135, 6140, 6145, 6150, 6155, 6160, 6165, 6170, 6175, 6180, 6185, 6190, 6195, 6200, 6205, 6210, 6215, 6220, 6225, 6230, 6235, 6240, 6245, 6250, 6255, 6260, 6265, 6270, 6275, 6280, 6285, 6290, 6295, 6300, 6305, 6310, 6315, 6320, 6325, 6330, 6335, 6340, 6345, 6350, 6355, 6360, 6365, 6370, 6375, 6380, 6385, 6390, 6395, 6400, 6405, 6410, 6415, 6420, 6425, 6430, 6435, 6440, 6445, 6450, 6455, 6460, 6465, 6470, 6475, 6480, 6485, 6490, 6495, 6500, 6505, 6510, 6515, 6520, 6525, 6530, 6535, 6540, 6545, 6550, 6555, 6560, 6565, 6570, 6575, 6580, 6585, 6590, 6595, 6600, 6605, 6610, 6615, 6620, 6625, 6630, 6635, 6640, 6645, 6650, 6655, 6660, 6665, 6670, 6675, 6680, 6685, 6690, 6695, 6700, 6705, 6710, 6715, 6720, 6725, 6730, 6735, 6740, 6745, 6750, 6755, 6760, 6765, 6770, 6775, 6780, 6785, 6790, 6795, 6800, 6805, 6810, 6815, 6820, 6825, 6830, 6835, 6840, 6845, 6850, 6855, 6860, 6865, 6870, 6875, 6880, 6885, 6890, 6895, 6900, 6905, 6910, 6915, 6920, 6925, 6930, 6935, 6940, 6945, 6950, 6955, 6960, 6965, 6970, 6975, 6980, 6985, 6990, 6995, 7000, 7005, 7010, 7015, 7020, 7025, 7030, 7035, 7040, 7045, 7050, 7055, 7060, 7065, 7070, 7075, 7080, 7085, 7090, 7095, 7100, 7105, 7110, 7115, 7120, 7125, 7130, 7135, 7140, 7145, 7150, 7155, 7160, 7165, 7170, 7175, 7180, 7185, 7190, 7195, 7200, 7205, 7210, 7215, 7220, 7225, 7230, 7235, 7240, 7245, 7250, 7255, 7260, 7265, 7270, 7275, 7280, 7285, 7290, 7295, 7300, 7305, 7310, 7315, 7320, 7325, 7330, 7335, 7340, 7345, 7350, 7355, 7360, 7365, 7370, 7375, 7380, 7385, 7390, 7395, 7400, 7405, 7410, 7415, 7420, 7425, 7430, 7435, 7440, 7445, 7450, 7455, 7460, 7465, 7470, 7475, 7480, 7485, 7490, 7495, 7500, 7505, 7510, 7515, 7520, 7525, 7530, 7535, 7540, 7545, 7550, 7555, 7560, 7565, 7570, 7575, 7580, 7585, 7590, 7595, 7600, 7605, 7610, 7615, 7620, 7625, 7630, 7635, 7640, 7645, 7650, 7655, 7660, 7665, 7670, 7675, 7680, 7685, 7690, 7695, 7700, 7705, 7710, 7715, 7720, 7725, 7730, 7735, 7740, 7745, 7750, 7755, 7760, 7765, 7770, 7775, 7780, 7785, 7790, 7795, 7800, 7805, 7810, 7815, 7820, 7825, 7830, 7835, 7840, 7845, 7850, 7855, 7860, 7865, 7870, 7875, 7880, 7885, 7890, 7895, 7900, 7905, 7910, 7915, 7920, 7925, 7930, 7935, 7940, 7945, 7950, 7955, 7960, 7965, 7970, 7975, 7980, 7985, 7990, 7995, 8000, 8005, 8010, 8015, 8020, 8025, 8030, 8035, 8040, 8045, 8050, 8055, 8060, 8065, 8070, 8075, 8080, 8085, 8090, 8095, 8100, 8105, 8110, 8115, 8120, 8125, 8130, 8135, 8140, 8145, 8150, 8155, 8160, 8165, 8170, 8175, 8180, 8185, 8190, 8195, 8200, 8205, 8210, 8215, 8220, 8225, 8230, 8235, 8240, 8245, 8250, 8255, 8260, 8265, 8270, 8275, 8280, 8285, 8290, 8295, 8300, 8305, 8310, 8315, 8320, 8325, 8330, 8335, 8340, 8345, 8350, 8355, 8360, 8365, 8370, 8375, 8380, 8385, 8390, 8395, 8400, 8405, 8410, 8415, 8420, 8425, 8430, 8435, 8440, 8445, 8450, 8455, 8460, 8465, 8470, 8475, 8480, 8485, 8490, 8495, 8500, 8505, 8510, 8515, 8520, 8525, 8530, 8535, 8540, 8545, 8550, 8555, 8560, 8565, 8570, 8575, 8580, 8585, 8590, 8595, 8600, 8605, 8610, 8615, 8620, 8625, 8630, 8635, 8640, 8645, 8650, 8655, 8660, 8665, 8670, 8675, 8680, 8685, 8690, 8695, 8700, 8705, 8710, 8715, 8720, 8725, 8730, 8735, 8740, 8745, 8750, 8755, 8760, 8765, 8770, 8775, 8780, 8785, 8790, 8795, 8800, 8805, 8810, 8815, 8820, 8825, 8830, 8835, 8840, 8845, 8850, 8855, 8860, 8865, 8870, 8875, 8880, 8885, 8890, 8895, 8900, 8905, 8910, 8915, 8920, 8925, 8930, 8935, 8940, 8945, 8950, 8955, 8960, 8965, 8970, 8975, 8980, 8985, 8990, 8995, 9000, 9005, 9010, 9015, 9020, 9025, 9030, 9035, 9040, 9045, 9050, 9055, 9060, 9065, 9070, 9075, 9080, 9085, 9090, 9095, 9100, 9105, 9110, 9115, 9120, 9125, 9130, 9135, 9140, 9145, 9150, 9155, 9160, 9165, 9170, 9175, 9180, 9185, 9190, 9195, 9200, 9205, 9210, 9215, 9220, 9225, 9230, 9235, 9240, 9245, 9250, 9255, 9260, 9265, 9270, 9275, 9280, 9285, 9290, 9295, 9300, 9305, 9310, 9315, 9320, 9325, 9330, 9335, 9340, 9345, 9350, 9355, 9360, 9365, 9370, 9375, 9380, 9385, 9390, 9395, 9400, 9405, 9410, 9415, 9420, 9425, 9430, 9435, 9440, 9445, 9450, 9455, 9460, 9465, 9470, 9475, 9480, 9485, 9490, 9495, 9500, 9505, 9510, 9515, 9520, 9525, 9530, 9535, 9540, 9545, 9550, 9555, 9560, 9565, 9570, 9575, 9580, 9585, 9590, 9595, 9600, 9605, 9610, 9615, 9620, 9625, 9630, 9635, 9640, 9645, 9650, 9655, 9660, 9665, 9670, 9675, 9680, 9685, 9690, 9695, 9700, 9705, 9710, 9715, 9720, 9725, 9730, 9735, 9740, 9745, 9750, 9755, 9760, 9765, 9770, 9775, 9780, 9785, 9790, 9795, 9800, 9805, 9810, 9815, 9820, 9825, 9830, 9835, 9840, 9845, 9850, 9855, 9860, 9865, 9870, 9875, 9880, 9885, 9890, 9895, 9900, 9905, 9910, 9915, 9920, 9925, 9930, 9935, 9940, 9945, 9950, 9955, 9960, 9965, 9970, 9975, 9980, 9985, 9990, 9995, 10000, 10005, 10010, 10015, 10020, 10025, 10030, 10035, 10040, 10045, 10050, 10055, 10060, 10065, 10070, 10075, 10080, 10085, 10090, 10095, 10100, 10105, 10110, 10115, 10120, 10125, 10130, 10135, 10140, 10145, 10150, 10155, 10160, 10165, 10170, 10175, 10180, 10185, 10190, 10195, 10200, 10205, 10210, 10215, 10220, 10225, 10230, 10235, 10240, 10245, 10250, 10255, 10260, 10265, 10270, 10275, 10280, 10285, 10290, 10295, 10300, 10305, 10310, 10315, 10320, 10325, 10330, 10335, 10340, 10345, 10350, 10355, 10360, 10365, 10370, 10375, 10380, 10385, 10390, 1			

Guideline: Standard of WWA Sancti Industrial Land. Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling by: Treatment/Pumpout w/wapayul y-204 + y-212?
Insert:
 100% : Limit of detection
 75% : Less than 100 (Limit of Quantitation) / 100 (Limit of Reporting)
 Available material + when not in detection scope of Accreditation (ISO/IEC 17025).
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

Lot ID: 23100408
Date Received : Sep 01, 2023
Date Reported : Sep 07, 2023
Report Number : 2758333-1

Sample Number	2310008-1
Sample Date	Sep 01, 2023 10:45 AM
Sample Description	Group 2 Windmaster WW-CT

[illegible]

Guideline: Standard of WWA Surfactant Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Tetsuro Fukumoto (Fukumoto T 204 ~ T207)
Report : 23rd Jul, 2017, part 2340 G
Instruments: APHA, 8000A & 8007,
23rd Jul, 2017, part 2340 G

[illegible]



Sample Number	23100231
Sampled Date	Oct 05, 2023 1:30 PM

Contract ID		Project		Site		D-WATERPANY COMPANY LIMITED	
Data Analysis/Computation of Sample		On 04/04/2023					
Sample Property		Carried out in either glass bottles and three plastic bottles, sample containers comply to pre-treatment - preservation standards (APHA/USEPA)					
		Note: Blank, cold, solid and not for					
Analyte	Unit	LOD (LOEL)	Result	Guideline / Specification	Method	Testing Location	
Water Testing							
BOD (5 days at 20 degrees C)	mg/L	< 2.0	< 2.0	1500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 19219, part 4920	Singapore	
COD	mg/L	< 25	< 25	< 750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 19219, part 4920	Singapore	
Oil & Grease *	mg/L	< 8	< 13	1500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 19219, part 4920	Singapore	
pH (in situ) *			< 7.2	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 19219, part 4920	Singapore	
Temperature *	Degrees C	< 28.1	< 28.1	< 45	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 19219, part 4920	Singapore	
Total Suspended Solids Direct at 55°C (incubation)	mg/L	< 9	33	< 200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed., 2012, vol. 19, part 19219, part 4920	Singapore	

Guideline: Standard of BINA Sarabat Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By: Tereza Puangku Indoprasati 504-7337
Remark:
1.00 : Limit of Detection
"x" : lower than 1.00 (Limit of Quantification) / 1.00 (Limit of Reporting)
Analytical method: A system not included in scope of Accreditation (SNKST) 17025.
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

Sample Number	23105789-1
Sampled Date	Oct 09, 2023 11:02 AM
Sampled Location	Room: 3-1000-0000000000000000

Contract ID	S0_018_2956	Pac #	148	Site	WTP (Jushubi) CA, US			
Data Analysis Method	On 10_16_2017							
Condition of Sample	Contained in one amber glass bottle and three plastic bottles; sample containers comply w/ pre-treatment - preservation standards: HPLC, some color, and/or turbid.							
Physical Property								
Analyte	Unit	LOD	LOQ (µg/L)	Result	Method / Standardization	Test Location		
Water Testing SD-15 Acet-S-DI Degree C	mg/L	-	2.0	75.7	< LOD	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed. 1995. Volumetric, AHA, ASTM D 1067, 2014 ed., EPA test 8010 p-10 +BIO: C16	Berkeley	
COD	mg/L	-	25	162	570	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed. 1995, 2014 ed., EPA test 8210 B	Berkeley	
Oil & Grease *	mg/L	-	3	6	< LOD	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed. 1995, 2014 ed., EPA test 8610 B	Berkeley	
pH (on site)	-	-	-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed. 1995, 2014 ed., EPA test 8010 - pH	Berkeley
Temperature *	Degree C	-	-	36.7	149	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed. 1995, 2014 ed., EPA test 18010 B	Berkeley	
Total Suspended Solids Direct at SD-15 Inlet-C	mg/L	-	9	27	< LOD	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed. 1995, 2014 ed., EPA test 2540 C	Berkeley	

Guideline: Standard of WPA Sarabot Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By: Sarabot Pempoon vududavv v-204-v-7516

Remark:

LOQ : Limit of Detection
 "u" : Lower than LOQ (Limit of Quantification) / LOR (Limit of Reporting)
 Analytical method * 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	<u>Sriluk P</u> Sriluk Purnomo Senior Vice Vice President & CEO	Approved by <u>Karl Aul</u> Karandito Aul Senior Manager Vice President & CEO
No other details are required for the submission of the proposal. (2)		
*The company must be a legal entity in Indonesia, established in accordance with the laws of the Republic of Indonesia. (3)		
*The company must be a legal entity in Indonesia, established in accordance with the laws of the Republic of Indonesia. (4)		
*The company must be a legal entity in Indonesia, established in accordance with the laws of the Republic of Indonesia. (5)		
*The company must be a legal entity in Indonesia, established in accordance with the laws of the Republic of Indonesia. (6)		



Sample Number	23356771-1
Sampled Date	Oct 05, 2023 10:20 AM

Contract Description	Group 1 - Residential EPA-CIT	Point 2	Site			
Quadrant 10	SRP 2014	Point 2	Shandis Industries Corp. Quarry EM			
Oct 06, 2013						
100-ml water from either granite boulders and three plastic bottles. Sample containers comply w/ pretreatment – preservation standards (APHA/USEPA)						
Follow APHA advice, vial and no head						
Analyte	Unit	LOD [U98]	Result	Guideline / Specification	Method	Toxicity Location
BOD-5 @ 20 degrees C	mg/L	< 0.9	39.0	<500	Standard Method for the Examination of Water and Wastewater, 19th ed., APHA, 2011	Benjamin
COD	mg/L	< 28	NF	\$750	Standard Method for the Examination of Water and Wastewater, 19th ed., APHA, 2011	Benjamin
Oil & Grease *	mg/L	< 3	A	<10	Standard Method for the Examination of Water and Wastewater, 19th ed., APHA, 2011	Saracen
pH (at 25°C) *	n/a	<	7.2	5.5-8.0	Standard Method for the Examination of Water and Wastewater, 19th ed., APHA, 2011	Benjamin
Temperature *	Degrees C	<	30.2	14%	Standard Method for the Examination of Water and Wastewater, 19th ed., APHA, 2011	Benjamin
Total Suspended Solids dried at 103-105 °C	mg/L	< 5	39	<200	Standard Method for the Examination of Water and Wastewater, 19th ed., APHA, 2011	Benjamin

Guideline: Standard of WIPA Sarabul Industrial Land. Minimum levels for wastewater discharging to central wastewater treatment plant.

Sampling By: Torment Pongpak mollehuwari © 2016-2017

Result:

CO ₂	Level of Detection
Ca ²⁺	Level of Quantification / Level of Reporting
Na ⁺	Level of Quantification / Level of Reporting

[illegible]

Sample Number	220607-1
Sampled Date	Oct 08, 2023 9:45 AM
Sample Description	Flow Cell - 100% Water

Product Information		Date: 01/01/2014		Rev: 04		Site: 0-Rubber Products Co. Ltd.		
Data Analysis Component		DIN 53510		DIN 53510		DIN 53510		
Description of Sample		Conformal gel on outer edges and three plastic bottles, sample containers comply to pre-treatment - preservation standards						
Physical Property		Units: grams, solid and sulfur						
Analysis		Unit	LOD	LOQ	LOEL	Guidelines / Specifications	Method	Testing Location
Water Testing								
ROD 3 (3 in 22 degree C)		mg/L		2.0	237	3/5000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 1998, 2005, 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, 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, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3069, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3077, 3078, 3079, 3080, 3081, 3082, 3083, 3084, 3085, 3086, 3087, 3088, 3089, 3090, 3091, 3092, 3093, 3094, 3095, 3096, 3097, 3098, 3099, 3100, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3134, 3135, 3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3160, 3161, 3162, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3248, 3249, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3269, 3270, 3271, 3272, 3273, 3274, 3275, 3276, 3277, 3278, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3286, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3296, 3297, 3298, 3299, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3308, 3309, 3310, 3311, 3312, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, 3338, 3339, 3340, 3341, 3342, 3343, 3344, 3345, 3346, 3347, 3348, 3349, 3350, 3351, 3352, 3353, 3354, 3355, 3356, 3357, 3358, 3359, 3360, 3361, 3362, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3383, 3384, 3385, 3386, 3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4005, 4006,	

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

Sampling By: Narasimha Perumpanni no.204-17518

Remark:

- LOD : Limit of Detection
- "+" : Lower than 100 (Limit of Quantification) / LOD (Limit of Reporting)
- Analyte(s) 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.

[illegible]

Sample Number	23100789-1
Sample Date	Oct 06, 2023 10:07 AM
Sample Description	...

Contract ID	UL 904 2014	Prod	77.78	Site	Hydrex Corporation		
Date Analysis Commenced	01 Oct 2013						
Description of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply per pre-treatment - preservation standards (APHA/USEPA)						
Physical Property	Hazardous, some solid and some liquid turbid						
Analyte	Unit	LOD	LOQ	Result	Method	Standard	
Water Testing							
900-15 days at 20 degrees C	mg/L		2.0	2.8	4500	Standard Methods for the Examination of Water and Wastewater, APHA, 191815 & 9101, 2011 ed., 1918 1215 & 9101, 4500-10	Bergholm
COO	mg/L		25	12	5750	Standard Methods for the Examination of Water and Wastewater, APHA, 191815 & 9101, 2011 ed., 1918 1215 & 9101	Bergholm
Oil & Grease *	mg/L		2	43	510	Standard Methods for the Examination of Water and Wastewater, APHA, 191815 & 9101, 2011 ed., 1918 1215 & 9101	Bergholm
pH (on site) *				7.1	55.4-6	Standard Methods for the Examination of Water and Wastewater, APHA, 191815 & 9101, 2011 ed., 1918 1215 & 9101, 55.4-6	Bergholm
Temperature *	Degrees C			38.9	445	Standard Methods for the Examination of Water and Wastewater, APHA, 191815 & 9101, 2011 ed., 1918 1215 & 9101	Bergholm
Total Suspended Solids at 300-500 degree C	mg/L		5	7	4200	Standard Methods for the Examination of Water and Wastewater, APHA, 191815 & 9101, 2011 ed., 1918 1215 & 9101	Bergholm

Guideline : Standard of BWA Sarabot Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Narabot Pempoo modarawat v-204 v-7524

Remark :

- LOD : Limit of detection
- "n" : Lesser than LOD (Limit of Quantitation) / LOQ (Limit of Impurity)
- Analytes marked * 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.

Technical Management	<u>Striluk P</u>	Approved by: <u>K. Anil</u>
	Striluk Pumping Section Head (Contact No: 9384-4720)	
The above declaration is made by the undersigned in the presence of the witnesses mentioned below.		
WITNESSES: 1. Mr. Ramesh Kumar, Sr. Superintendent, Alsthal Pumping Station, Bangalore 100001. (Phone: 9845 2700 3000 / 9845 2700 1700) 2. Mr. Ramesh Kumar, Sr. Superintendent, Alsthal Pumping Station, Bangalore 100001. (Phone: 9845 2700 3000 / 9845 2700 1700)		
KIRAN Srinivasan www.alsthal.com		
MIGHTY TROLDORF'S RIGHT PARTNER		



Sample Number	23090772-1
Sampled Date	Oct 05, 2023 10:00 AM

Chemical Description	Group 2 (bioactive HMs) + Group 3 (bioactive HMs + VOCs, PAHs, PCBs)	Phat 2	Site	Guanzhou Industries Corp Ltd			
Contract	Phase 3						
Data Analysis Commenced	Oct 06, 2012						
Condition of Sample	Sampled in 100 ml amber glass bottles and three plastic bottles; sample containers comply to pre-treatment – preservation standards						
Physical Property	Solid, white, odorless, taste and touch						
Analysis	Unit	LOD	LOQ	Result	Guidelines / Specifications	Method	Testing Location
Water Testing							
ROD (3 days @ 20 degree C)	mg/L	—	2.0	<1	2500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp 2218 & W57, 4000-C-10	Benign
COD	mg/L	—	25	65	1750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp 1220 D	Benign
DI & Greiner *	mg/L	—	3	3	<10	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp 1803 B	Benign
pH (on site)	—	—	—	5.4	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp 4602 + B-10	Benign
Temperature *	Degrees C	—	—	0.1	145	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp 1808 B	Benign
Total Suspended Solids (Solid at 100-200 degree)	mg/L	—	5	36	1000	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, pp 1003 B	Benign

Guideline: Standard of RPA Sirabut Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling by: Tossawat Puangrak Indrasenont © 2014-© 7/2017

Remark:

- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- ND : Not Detected (less than LOQ)

[illegible]

Sample Number	23108968-1
Sampled Date	Oct 01, 2023 10:02 AM

Code	Instrumentation	OS	Software	File	DOI International (Thailand) P.L.C.		
Data Analysis/Computation	GNI2 (GNI-2018)	Win 10	-	-	-		
Date/Analysis/Computation	Oct 11, 2023	-	-	-	-		
Condition of Sample	Controlled indoor water gas bottles and three plastic bottles; sample containers comply to pre-treatment – preservation details	-	-	-	-		
Purpose/Property	Water vapor, odor, smell, and color	-	-	-	-		
Analyte	Unit	LOQ	LOD	Results	Guideline / Specification	Method	Tester Location
Wettest Testing CO2 (5 days at 23 degree C)	n/L	-	2.0	ES	(190)	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & ISO: 204.4, 2017, and ISO 6336 part 4000 - 0	Bangkok
CO2	n/L	-	25	SE	(750)	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & ISO: 204.4, 2017, and ISO 6336 part 4000 - 0	Bangkok
CH ₄ & Ozone *	n/L	-	3	<3	(15)	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & ISO: 204.4, 2017, and ISO 6336 part 4000 - 0	Bangkok
pH (on site) **	-	-	-	7.5	(5.5-8.0)	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & ISO: 204.4, 2017, and ISO 6336 part 4000 - 0	Bangkok
Temperature ***	Degree C	-	-	30.8	(>45)	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & ISO: 204.4, 2017, and ISO 6336 part 4000 - 0	Bangkok
Total Suspended Solids (TSS) (dial at 0.45 µm)	n/L	-	5	8	(100)	Standard Methods for the Examination of Water and Wastewater, APHA, ASTM & ISO: 204.4, 2017, and ISO 6336 part 4000 - 0	Bangkok

Guideline: Standard of WHO Surface Water, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By: Naveet Poonpoo (naveetp@iitg.ac.in) 9-204-7526
Remark:
 - LOD : Limit of Detection
 - LQ : Lower than 10% Limit of Quantification / LQ (Limit of Reporting)
 Analytical method refers and includes scope of Accreditation (ISO/IEC 17025).
 The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

No. Dokumen / Revisi : 001 / 001	<p align="center">Siruluk P.</p> <p align="center">Sekretis Penerimaan Section Head Wafredwani - 0204-612720</p>	<p align="center">Karl Aih</p> <p align="center">Approved by Kendaraan Anah Senior Manager Wafredwani - 0204-61211</p>
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Sample Number	21106770-1
Sampled Date	Oct 01, 2023 10:10 AM
Sample Description	Groundwater from monitoring well

Contact ID	Sites 386, 2054	Plot	Site	Guanlan Industries Corp Ltd.		
Location	Part 1					
Date Analysis Completed	Oct 14, 2013					
Condition of Sample	Conserved in one amber glass bottle and three plastic bottles; sample containers comply to pre-treatment - preservation of the Volatile Organic Compounds (VOCs), SVOCs & HAPs.					
Physical Property	Volatile, odourless, clear and free of oil or solids					
Analyte	Unit	LOD [LOG]	Result	Guideline / Specification	Method	Tester/ Lab
Water Testing						
KOD (5 Steps at 20 degree C)	ng/L	< 2.0	<2.0	6500	Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA, AWWA & WPCF, 1995, Section 9130, part 9130-1 & 9130-10	
COD	mg/L	< 25	<47	1750	Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA, AWWA & WPCF, 1995, part 5220-B	
Chl & Green +	ng/L	< 3	<3	110	Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA, AWWA & WPCF, 1995, part 9130-B	
pH (in water) *			8.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA, AWWA & WPCF, 1995, part 4500-H	
Temperature *	Degree C	<	34.7	145	Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA, AWWA & WPCF, 1995, part 1900-B	
Total Suspended Solids (Filtered at 0.45 micron)	mg/L	< 5	5	1200	Standard Methods for the Examination of Water and Wastewater, 19th Edition, APHA, AWWA & WPCF, 1995, part 2550-B	

Guideline: Standard of WHA Sarabur Industrial Land, Maximum levels for wastewater discharge to central wastewater treatment plant.
Sampling By: Terrestrial Punggah via Escripsil v-206-s-7337

Remarks:

- ①SD : Limit of Detection
- ②C : Screen Error (LOQ) Limit of Quantification / LOR (Limit of Reporting)
- ③④⑤⑥ marked * : data not included scope of Accreditation ISO/IEC 17025.

Technical Management	<u>SUNITHON C</u> Sunithon Chinnakarn Sunithon C WU-Expend - 2004-04-02	Approved by	<u>Kanok An</u> Kanok An Senior Manager WU-Expend - 2004-04-03
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Local Scalesman	www.abjglobal.com		
Project Scalesman	PROJECT SOLUTIONS PROJECT PROJECT PROJECT		



Sample Number	23100815-1
Sample Date	Oct 01, 2023 11:00 AM

Sample Description	GW1 GW2 GW3 GW4 GW5 GW6 GW7 GW8 GW9 GW10									
Contract ID	SA-001-2017									
Date Analysis Commenced	04 Oct 2023									
Condition of Sample (SPH/SPFH)	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards									
Physical Property	Temperature, water volume, solid and turbid									
Analysis	Unit	LOQ	LOQ [3σ]	Result	Comments / Specifications	Method	Team			
Alkaline Titration										
Acidimetric Oxidation	mg/L	0.003	0.01	Not Detected	0.0-29	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2017, part 254, vol. 19, part 2540-C	Sample			
Water Temperature										
ISO 7 (5 min at 10 degrees C)	mg/L	-	2.0	2.5	<100	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2017, part 1910, part 1910-B	Sample			
DO	mg/L	-	25	18	0.750	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2017, part 1910, part 1910-B	Sample			
Oil & Grease *	mg/L	-	3	<3	1.10	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2017, part 1520-B	Sample			
pH (in-situ) *	-	-	-	8.0	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2017, part 4500, part 4500-B	Sample			
Temperature *	Degree C	-	-	28.5	1.65	Standard Methods for the Examination of Water and Wastewater, 19th Edition, 2017, part 1810, part 1810-B	Sample			

Total Dissolved Solids Dried at 180 degrees C	mg/L	()	\$	1452	(3000)	Standard Methods for the Examination of Water and Wastewater: APHA, ASTM & WEF, 23rd ed., 2017, part 2550-B	Sample
Total Suspended Solids Dried at 103-105 degrees C	mg/L	()	\$	10	(200)	Standard Methods for the Examination of Water and Wastewater: APHA, ASTM & WEF, 23rd ed., 2017, part 2540-C	Sample

<p>Technical Management</p> <p style="text-align: center;">Siruluk P</p> <p style="text-align: center;">Sethi Purnomo Section Head Widyadarmas - 021-8414022</p> <p><small>The above content is subject to the availability of the product and the price of the product is subject to change. We recommend you to visit our website www.alfababul.com for more information.</small></p> <p><small>ALFABABUL SSB (PUBLISHERS) SDN. BHD., 47, Cheras, Jalan Sungai Besi, Cheras, Kuala Lumpur, Malaysia. Tel: 03-27502100 / 03-27502101 / 03-27502102 / 03-27502103 / 03-27502104 / 03-27502105 / 03-27502106 / 03-27502107 / 03-27502108 / 03-27502109 / 03-27502110 / 03-27502111 / 03-27502112 / 03-27502113 / 03-27502114 / 03-27502115 / 03-27502116 / 03-27502117 / 03-27502118 / 03-27502119 / 03-27502120 / 03-27502121 / 03-27502122 / 03-27502123 / 03-27502124 / 03-27502125 / 03-27502126 / 03-27502127 / 03-27502128 / 03-27502129 / 03-27502130 / 03-27502131 / 03-27502132 / 03-27502133 / 03-27502134 / 03-27502135 / 03-27502136 / 03-27502137 / 03-27502138 / 03-27502139 / 03-27502140 / 03-27502141 / 03-27502142 / 03-27502143 / 03-27502144 / 03-27502145 / 03-27502146 / 03-27502147 / 03-27502148 / 03-27502149 / 03-27502150 / 03-27502151 / 03-27502152 / 03-27502153 / 03-27502154 / 03-27502155 / 03-27502156 / 03-27502157 / 03-27502158 / 03-27502159 / 03-27502160 / 03-27502161 / 03-27502162 / 03-27502163 / 03-27502164 / 03-27502165 / 03-27502166 / 03-27502167 / 03-27502168 / 03-27502169 / 03-27502170 / 03-27502171 / 03-27502172 / 03-27502173 / 03-27502174 / 03-27502175 / 03-27502176 / 03-27502177 / 03-27502178 / 03-27502179 / 03-27502180 / 03-27502181 / 03-27502182 / 03-27502183 / 03-27502184 / 03-27502185 / 03-27502186 / 03-27502187 / 03-27502188 / 03-27502189 / 03-27502190 / 03-27502191 / 03-27502192 / 03-27502193 / 03-27502194 / 03-27502195 / 03-27502196 / 03-27502197 / 03-27502198 / 03-27502199 / 03-27502200 / 03-27502201 / 03-27502202 / 03-27502203 / 03-27502204 / 03-27502205 / 03-27502206 / 03-27502207 / 03-27502208 / 03-27502209 / 03-27502210 / 03-27502211 / 03-27502212 / 03-27502213 / 03-27502214 / 03-27502215 / 03-27502216 / 03-27502217 / 03-27502218 / 03-27502219 / 03-27502220 / 03-27502221 / 03-27502222 / 03-27502223 / 03-27502224 / 03-27502225 / 03-27502226 / 03-27502227 / 03-27502228 / 03-27502229 / 03-27502230 / 03-27502231 / 03-27502232 / 03-27502233 / 03-27502234 / 03-27502235 / 03-27502236 / 03-27502237 / 03-27502238 / 03-27502239 / 03-27502240 / 03-27502241 / 03-27502242 / 03-27502243 / 03-27502244 / 03-27502245 / 03-27502246 / 03-27502247 / 03-27502248 / 03-27502249 / 03-27502250 / 03-27502251 / 03-27502252 / 03-27502253 / 03-27502254 / 03-27502255 / 03-27502256 / 03-27502257 / 03-27502258 / 03-27502259 / 03-27502260 / 03-27502261 / 03-27502262 / 03-27502263 / 03-27502264 / 03-27502265 / 03-27502266 / 03-27502267 / 03-27502268 / 03-27502269 / 03-27502270 / 03-27502271 / 03-27502272 / 03-27502273 / 03-27502274 / 03-27502275 / 03-27502276 / 03-27502277 / 03-27502278 / 03-27502279 / 03-27502280 / 03-27502281 / 03-27502282 / 03-27502283 / 03-27502284 / 03-27502285 / 03-27502286 / 03-27502287 / 03-27502288 / 03-27502289 / 03-27502290 / 03-27502291 / 03-27502292 / 03-27502293 / 03-27502294 / 03-27502295 / 03-27502296 / 03-27502297 / 03-27502298 / 03-27502299 / 03-27502300 / 03-27502301 / 03-27502302 / 03-27502303 / 03-27502304 / 03-27502305 / 03-27502306 / 03-27502307 / 03-27502308 / 03-27502309 / 03-27502310 / 03-27502311 / 03-27502312 / 03-27502313 / 03-27502314 / 03-27502315 / 03-27502316 / 03-27502317 / 03-27502318 / 03-27502319 / 03-27502320 / 03-27502321 / 03-27502322 / 03-27502323 / 03-27502324 / 03-27502325 / 03-27502326 / 03-27502327 / 03-27502328 / 03-27502329 / 03-27502330 / 03-27502331 / 03-27502332 / 03-27502333 / 03-27502334 / 03-27502335 / 03-27502336 / 03-27502337 / 03-27502338 / 03-27502339 / 03-27502340 / 03-27502341 / 03-27502342 / 03-27502343 / 03-27502344 / 03-27502345 / 03-27502346 / 03-27502347 / 03-27502348 / 03-27502349 / 03-27502350 / 03-27502351 / 03-27502352 / 03-27502353 / 03-27502354 / 03-27502355 / 03-27502356 / 03-27502357 / 03-27502358 / 03-27502359 / 03-27502360 / 03-27502361 / 03-27502362 / 03-27502363 / 03-27502364 / 03-27502365 / 03-27502366 / 03-27502367 / 03-27502368 / 03-27502369 / 03-27502370 / 03-27502371 / 03-27502372 / 03-27502373 / 03-27502374 / 03-27502375 / 03-27502376 / 03-27502377 / 03-27502378 / 03-27502379 / 03-27502380 / 03-27502381 / 03-27502382 / 03-27502383 / 03-27502384 / 03-27502385 / 03-27502386 / 03-27502387 / 03-27502388 / 03-27502389 / 03-27502390 / 03-27502391 / 03-27502392 / 03-27502393 / 03-27502394 / 03-27502395 / 03-275</small></p>
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P/O :
Project Name : Factory Monthly
Project Location : WHP, SD.

Sample Number	12118						Page 1 of 1
Sample Date	Dec 01, 2012 13:35 AM						
Sample Description	Grat 2 Wastewater WFO-C						
Contract ID	30, 001, 254	Plot	01, 01	Site	Niside Computer Technology (Thailand) Co., Ltd.		
Order Analysis Comment	Dec 01, 2012						
Condition of Sample	Conferred to an amber glass bottle and three plastic bottles, sample containers only to be pre-treated - preservation standards						
Physical Property	Gases, volatiles, no acid, and sulfur						
Analyte	Unit	LOQ (µg/L)	Result	Guideline / Specification	Method	Testing Location	
Water Testing							
BOD (5 days at 20 degrees C)	mg/L	1	2.0	2.1	1500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 2100 BOD-5, 2100 BOD-5, 2100 BOD-5, 2100 BOD-5	Bangkok
COD	mg/L	1	25	30	1790	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 2100 COD, 2100 COD, 2100 COD, 2100 COD	Bangkok
Oil & Grease *	mg/L	1	8	<3	310	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 2100 Oil & Grease, 2100 Oil & Grease, 2100 Oil & Grease, 2100 Oil & Grease	Bangkok
pH (in situ) *				7.8	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 2100 pH, 2100 pH, 2100 pH, 2100 pH	Bangkok
Temperature *	Degree C			30.1	14-3	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 2100 Temp, 2100 Temp, 2100 Temp, 2100 Temp	Bangkok
Total Suspended Solids (Dried at 103-105 degrees C)	mg/L	1	8	6	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 1995, 2100 TSS, 2100 TSS, 2100 TSS, 2100 TSS	Bangkok

Guideline: Standard of WWA Saraburi Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By: Tattawat Pungpak mol@saes.ac.th +904-67207
Remark:
LSD = Limit of Detection
LOQ = Lower limit (Limit of Quantitation) / LOD (Limit of Reporting)
Reliability needed * Agree 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]

Project Name : Factory / Hardly

Sample Identification							Page 1 of 1
Sample Number	231014-01						
Sampled Date	On 16, 2023 10:45 AM						
Sample Description	Group 2 Waterfall - W04-CF						
Contact ID	Doc ID	2056	Plot	21	Site	Hortville SA (Thailand) Co.,Ltd.	
Order Analyte Comment	On 10/23/2023						
Condition of Sample	Contacted in one amber glass bottle and three plastic bottles, sample containers only to be pre-treated - preservative standards (AMPA,OPDA)						
Physical Property	Inhibitor, none added, solid and not heated						
Analyte	Unit	LOD	LOQ (LOB)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
SDO (5 days at 20 degree C)	mg/L	-	2.6	6.7	1500	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed (2012), sec 1912, ap 1912.1	Bangkok
CO ₂	mg/L	-	25	75	1750	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed (2012), sec 1912, ap 1912.1	Bangkok
Oil & Grease *	mg/L	-	3	<3	1.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed (2012), sec 1912, ap 1912.1	Bangkok
pH (on site)	-	-	-	-	7.4	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed (2012), sec 1912, ap 1912.1	Bangkok
Temperature *	Degree C	-	-	-	26.9	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed (2012), sec 1912, ap 1912.1	Bangkok
Total Suspended Solids Direct at 100-100 degree C	mg/L	-	9	-	1200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed (2012), sec 1912, ap 1912.1	Bangkok

Sampling By: Narasim Kumar vishnu@gmail.com v-204-v-5411

[illegible]

P/O :
Project Name : Factory Monthly
Project Location : W004, S2

Sample Number	213187						Page 3 of 3
Sample Date	Dec 01, 2013 10:00 AM						
Sample Description	Group 2 Watermeter WWCCT						
Contract ID	NS, 007 3360						
Date Analytic Commenced	Dec 01, 2013	Plate 1/102	Site: NS SAGE (THALZEN) CO., LTD.				
Contract of Sample	Consistent to an amber glass bottle and three plastic bottles, sample containers only for pre-treatment - preservation standards (DAPPEX-C)						
Physical Property	Solid, a lot of odor, solid, and turbid						
Analyte	Unit	LOD	LOQ	Reinst	Guideline / Specification	Method	Limiting Location
Water Testing							
BOD (5 days at 20 degrees C)	mg/L	-	2.0	39.0	3500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, part 1920 B and C	Bergholm
COO	mg/L	-	25	267	1750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, part 1920 D	Bergholm
Oil in Grease *	mg/L	-	3	4	138	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, part 1920 H	Bergholm
pH (25°C)	-	-	-	-	7.2	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, part 1920 I and J	Bergholm
Temperature *	°C	-	-	-	38.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, part 1920 K and L	Bergholm
Total Suspended Solids Direct at 100-500 microns	mg/L	-	5	52	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2012, part 1920 M	Bergholm

Guideline: Standard of WWA Sarabot Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By: Atsapon Yaso mitthapanyee v-204 v-7108
Result:
 LOD: Limit of Detection
 "n": Lower than 100 (Limit of Quantitation) / 100 (Limit of Reporting)
 Analysis method: "n" value 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 Consultant	 Simon Chaturant Signatory ID: imindaco-1204-0-0427	Approved by	 Karsten Johs Group Manager imindaco-1204-0-0111
Notes and/or comments to be included in the Report of the Study. This area is reserved for the use of the project owner. Use as directed.			
A Declaration: I hereby declare that the signature is of the signatory named in the Report.			
ADDRESS: 104 Puthuchan Road, Puthuchan, Cheruvu (near), Bangkok 10260 Thailand Phone: +66 2 260 3800 Fax: +66 2 620 3107 E-MAIL: info@alphaglobal.com WEBSITE: www.alphaglobal.com OFFICE: 404-405 4th Floor, United Company			
L1016: 06/06/2016	www.alphaglobal.com NEGOT SUPPORTERS: NESTLE (INDONESIA) PT. LTD.		



P/O :
Project Name : Factory 1 Monthly
Project Location : WMA 001

Sample Number	210313						Page 14 of 15
Sample Date	Dec 01, 2012 1:30 PM						
Sample Description	Dr. C. Wastewater 100-CT						
Contract ID	187_207265	Plot 18					Site Xinhong Park (Taiwan) Co., Ltd.
Location and Comments	Dec 01, 2012						
Condition of Sample	Combined in one amber glass bottle and three plastic bottles, sample containers comply to pre-treatment - preservation standards						
Physical Property	Coliforms, coliforms, some solid, and no turbidity						
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (3 days at 20 degree C)	mg/L		2.0	1.0	3300	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed & ISO, 2nd ed., 2017, pp 5215-18	Bangkok
COD	mg/L		25	125	1790	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed & ISO, 2nd ed., 2017, pp 5225-D	Bangkok
DO & Green	mg/L		3	-3	310	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed & ISO, 2nd ed., 2017, pp 5213-B	Bangkok
pH (in air)				-7.8	5.5-8.0	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed & ISO, 2nd ed., 2017, pp 4020 -11B	Bangkok
Temperature	Degree C			-0.0	5-40	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed & ISO, 2nd ed., 2017, pp 4020 -11B	Bangkok
Total Suspended Solids (dried at 103.5 degree C)	mg/L		9	15	3200	Standard Methods for the Examination of Water and Wastewater, APHA, 19th ed & ISO, 2nd ed., 2017, pp 2551-B	Bangkok

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

Sampling By: Jyoti Khosla mkhosiya@birlasabhai.com +91-96724-7517

Remarks:

- LOD : Level of Detection
- <4° : Lower than LOD (Limit of Quantification) / LOD (Limit of Impurity)
- Analyte(s) 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.

[illegible]

Project Name : Factory / Monthly

Sample Number	21310701-1					Page 4 of 4	
Sample Date	Dec 01, 2013 (131201)						
Sample Description	Group 2 Intermediate (R00-CR)						
Contract ID	HS_105_2014	Plot	28		Site	Yorkville SC2 Field Station, Co. Ltd.	
State Agency Contract	Dec 01, 2013						
Contracted by	Contracted by an earlier glass bottle and three plastic bottles. Sample containers comply to pretreatment - preservation standards						
Physical Property	Container(s) of one amber glass bottle and metal and teflon						
Analyte	Unit	LOD	LOD (LOB)	Amount	Guideline / Specification	Method	Testing Lab
Water Testing							
BOD (5 days at 20 °C)	mg/L	-	2.0	28	1500	Standard Methods for the Examination of Water and Wastewater, 19th ed. (APHA, 2005) & VEF, 2nd ed., 2011 (see 5212-01)	Benlign
DO	mg/L	-	25	22	6700	Standard Methods for the Examination of Water and Wastewater, 19th ed. (APHA, 2005) & VEF, 2nd ed., 2011 (see 5212-01)	Benlign
Cl & Arsenic *	mg/L	-	2	-	110	Standard Methods for the Examination of Water and Wastewater, 19th ed. (APHA, 2005) & VEF, 2nd ed., 2011 (see 5212-01)	Benlign
pH (in situ) *	-	-	-	7.4	5.5-10	Standard Methods for the Examination of Water and Wastewater, 19th ed. (APHA, 2005) & VEF, 2nd ed., 2011 (see 5212-01)	Benlign
Temperature *	°C	-	-	20.8	<45	Standard Methods for the Examination of Water and Wastewater, 19th ed. (APHA, 2005) & VEF, 2nd ed., 2011 (see 5212-01)	Benlign
Total Dissolved Solids (dried at 180 °C)	mg/L	-	5	440	1,000	Standard Methods for the Examination of Water and Wastewater, 19th ed. (APHA, 2005) & VEF, 2nd ed., 2011 (see 5212-01)	Benlign

105-105 degree C. Examination of water and wastewater: 400x, 1000x & 100x, 120-40, 100T, pH 1240 D

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

Sampling By : Therast Puangku, Indonesia 01-204-6-7107

Remark :

[illegible]

Project Name : Factory / Monthly
Project Location: WDA, SD

Sample Number		211877-12				Page 1 of 1	
Sample Date		Dec 09, 2012 13:20:49					
Sample Description		Group 2 Waterborne WSW-C					
Contract ID		50, 100, 200		Plot 1424		Site: NE PHC3 (THAILAND), CO., LTD.	
Date Analysis Commenced		Dec 09, 2012					
Condition of Sample		Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (ASTM D155)					
Physical Property		Brown, a lot of sediment, solid, and turbid					
Analyst	Unit	LOD	LOD (LOE)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L			2.0	95	1300	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed, 1995, 5210, 5210-5210, 5210-5210, 5210-5210
COO	mg/L			25	97	1750	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed, 1995, 5210, 5210-5210, 5210-5210, 5210-5210
Oil & Grease *				3	13	130	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed, 1995, 5210, 5210-5210, 5210-5210, 5210-5210
pH (on site) *					1.3	1.5-6.0	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed, 1995, 5210, 5210-5210, 5210-5210, 5210-5210
Temperature *	Degree C				29.8	0-40	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed, 1995, 5210, 5210-5210, 5210-5210, 5210-5210
Total Suspended Solid Direct at 103-105 degree C	mg/L			5	116	1200	Standard Methods for the Examination of Water and Wastewater, APHA, 18th ed, 1995, 5210, 5210-5210, 5210-5210, 5210-5210

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

Sampling By: ARIPOK Yaso environmental s-204-s-710E

Remark:

- LOD = Limit of Detection
- "LOQ" = Limit of Quantification / LOQ (Limit of Reporting)
- "ND" = Lower than LOD (Limit of Quantification) / LOQ (Limit of Reporting)
- Available(s) marked * is/are not included in scope of Accreditation (ISO/IEC 17025)
- The laboratory has been accepted as an accepted laboratory compliant with the ISO/IEC 17025.

[illegible]

P/O :
Project Name : Factory Monthly
Project Location : WSA 52L

Sample Number	ZIR-016							Tier 1				
Sample Date	Dec R, 2023 @ 8:55 AM											
Sample Description	Group 2 Wastewater WH-C											
Contact ID	SL_041_2954	Pipe	ISC	Silo - Silom (Thailand) Co., Ltd.								
Date Analyte Commenced	Dec 01, 2023											
Description of Sample	Contained no emulsifier glass like and three plastic bottles; sample containers comply to pretestment – preservation date											
Analyte(s)	Nelson, A lot of oil/water, solids, and turbid											
Physical Property												
Analyte	Unit	LOD	LOQ	Result	Guideline / Specification	Method	Tested Location					
Water Tasting												
ODI (3 days at 20 degrees C)	ng/L	-	2.0	32.0	<100	Standard Methods for the Examination of Water and Wastewater, APHA, 1995B & NSF, 2nd ed., 2017, per 5121.6, per 4020 - I-G O	Berkeley					
CDD	ng/L	-	25	260	\$750	Standard Methods for the Examination of Water and Wastewater, APHA, 1995B & NSF, 2nd ed., 2017, per 5122.0	Berkeley					
Oil & Grease +	ng/L	-	3	<3	133	Standard Methods for the Examination of Water and Wastewater, APHA, 1995B & NSF, 2nd ed., 2017, per 5122.0	Berkeley					
pH (in site)	-	-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, 1995B & NSF, 2nd ed., 2017, per 4020 - H (1)	Berkeley					
Temperature	Degree C	-	-	29.8	<45	Standard Methods for the Examination of Water and Wastewater, APHA, 1995B & NSF, 2nd ed., 2017, per 1203.0	Berkeley					
Total Suspended Solids (Oxid at 155°C filtered)	ng/L	-	5	\$7	<100	Standard Methods for the Examination of Water and	Berkeley					

Guideline : Standard of WSA Sarabot Industrial Land, Maximum levels for wastewater discharging to central wastewater treatment plant.
Sampling By : Atficon Vaso moulana@oil y-204-y-7238
Remark :
100% : Limit of Detection
75% : Lesser than 100 (Limit of Quantitation) / 100 (Limit of Reporting)
Analysis/ method : * before not included scope of Accreditation (ISO/IEC 17025).
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

[illegible]

Project Name : Factory Monthly

[illegible]

P/O :
Project Name : Factory Monthly
Project Location : W38, C2

Sample Number	ZD-000-1							Page 1
Sample Date	Dec. 21, 2012 @ 4:49 AM							
Sample Description	Group 1 Water/Water W/O-CF							
Container ID	SJL 03_2654	Flask #		Site Ready Clean Co.,LLC.				
Date Analyzed/Examined	Dec. 20, 2012							
Condition of Sample Upon Receipt	Contained in one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards for VOC's, SVOC's, PCB's, metals, organics, solids, and bio-hazards							
Physical Property	(VOC's)							
Analyte	Unit	LOQ	L.O.D.	Result	Confidence / Specification	Method	Team/Laboratory	
Water Testing								
BOD (5 days @ 20 degrees C)	ng/L		2.0	2.3	1500	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, per 8222-B & 8222-A	Benjamin	
COD	mg/L	25	<25	1750	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, per 8222-B	Benjamin		
Oil & Grease "	ng/L		3	<3	630	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, per 8222-B	Benjamin	
pH (in vial) "				7.7	5.5-6.0	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, per 8222-B	Benjamin	
Temperature "	Degree C			-26.8	14-65	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, per 8222-B	Benjamin	
Total Suspended Solids Direct at 150-100 degree C	ng/L		5	<5	1200	Standard Methods for the Examination of Water and Wastewater, 19th ed., 2005, per 8222-B	Benjamin	

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

Sampling By : Harneet kaur (indianex@v-204-v-541)

Source :

ISO : Limit of Detection
"u" : lower than 100 (Limit of Quantitation) / 100 (Limit of Reporting)
Analysis used 4 types of inclusion scope of Accreditation ISO/IEC 17025.
The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

Technical Management	<p><u>Srinluk P.</u></p> <p>Sirila Pongvong Section Head Inland Transport >200-4720</p>	<p>Approved by <u>Kanok Anit</u></p> <p>Kanokvorn Anit Senior Manager Inland Transport >200-4611</p>
	<p>Monthly (MTR) is the working as a reference, please be aware that the monthly (MTR) will be changed if the value of the transportation is less than monthly value with the following:</p> <p>1. no change in MTR if the monthly (MTR) is less than monthly (MTR) value</p> <p>2. no change in MTR if the monthly (MTR) is less than monthly (MTR) value</p>	
<p>Approved by Kanokvorn Anit, Phramthanyak Kik, Chansing Phramthanyak, Chai Wan Luang, Sampan 10258 Travel (PHONE: 06-6106 1000 / FAX: 06-6106 1001) 6/1/2018 10:00 AM 6/1/2018 10:00 AM</p>		
<p>Logistics www.sphphuket.com</p> <p>RIGHT SOLUTIONS RIGHT PEOPLE</p>		

ภาคผนวก ค-7

ตะกอนจากระบบบำบัดน้ำเสียส่วนกลาง
และตะกอนจากระบบผลิตน้ำใช้เพื่อการอุตสาหกรรม



Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 23109408
Date Received : Oct 05, 2023
Date Reported : Oct 14, 2023
Report Number : 2780317-1

Page 1 of 6

Sample Number 23109408-1
Sampled Date Oct 05, 2023 1:15 PM
Sample Description Solid Waste
Location WHA SIL : ถนนกาญจนาภิเษกบริเวณบึงน้ำดิบในสวนสาธารณะ (WWTP)
Date Analysis Commenced Oct 06, 2023
Condition of Sample Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Total Concentration Test (TTL) : Metals							
Arsenic	mg/kg	-	0.50	1.79	<500	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	300	<10000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	0.54	<100	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Chromium	mg/kg	-	1.00	25.3	<2500	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	143	<2500	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	26.9	<1000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	167	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	0.20	<20	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	31.9	<2000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	1.37	<100	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	973	<5000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Sampling By : Teerawat Puangsuk

Remark :

The above results are valid only for the analyzed sample(s) as indicated in this report. The results are not valid for any other sample(s) without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 23109408
Date Received : Oct 05, 2023
Date Reported : Oct 14, 2023
Report Number : 2780317-1

Page 2 of 6

• LOD : Limit of Detection
• LOR : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 23109408
Date Received : Oct 05, 2023
Date Reported : Oct 14, 2023
Report Number : 2780317-1

Page 3 of 6

Sample Number 23109408-2
Sampled Date Oct 05, 2023 11:35 AM
Sample Description Solid Waste
Location WHA SIL : ถนนเทศบาลนครนนทบุรีสายเก่าฝั่งซ้าย
Date Analysis Commenced Oct 06, 2023
Condition of Sample Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Total Concentration Test (TTL) : Metals							
Arsenic	mg/kg	-	0.50	2.63	<500	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Barium	mg/kg	-	1.00	31.8	<10000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Cadmium	mg/kg	-	0.50	<0.50	<100	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Chromium	mg/kg	-	1.00	9.15	<2500	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Copper	mg/kg	-	1.00	7.33	<2500	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Lead	mg/kg	-	1.00	3.42	<1000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Manganese	mg/kg	-	1.00	419	No Standard	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Mercury	mg/kg	-	0.10	<0.10	<20	United States Environmental Protection Agency, EPA Method 7473	Bangkok
Nickel	mg/kg	-	1.00	5.70	<2000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Selenium	mg/kg	-	0.50	<0.50	<100	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok
Zinc	mg/kg	-	1.00	26.5	<5000	United States Environmental Protection Agency, EPA Method 3050B and 6010D	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).
Sampling By : Teerawat Puangsuk

Remark :

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Analysis / Test Report

Client : WHA Utilities and Power Public Company Limited
111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140
P/O :
Project Name :
Project Location : WHA SIL

Lot ID: 23109408
Date Received : Oct 05, 2023
Date Reported : Oct 14, 2023
Report Number : 2780317-1

Page 4 of 6

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

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Analysis / Test Report

Lot ID: 23109408

Client : WHA Utilities and Power Public Company Limited

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : Date Received : Oct 05, 2023

Project Name : Date Reported : Oct 14, 2023

Project Location : WHA SIL Report Number : 2780317-1

Page 5 of 6

Sample Number	23109408-3
Sampled Date	Oct 05, 2023 1:15 PM
Sample Description	Solid Waste
Location	WHA SIL : ภาศนาภาพจนนศึกษาโปลิตองลาทวกร
Date Analysis Commenced	Oct 07, 2023
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Waste Extraction Test (STLC) : Metals							
Arsenic	mg/L	-	0.01	0.05	<5	MOI, B.E.2548	Bangkok
Barium	mg/L	-	0.01	12.5	<100	MOI, B.E.2548	Bangkok
Cadmium	mg/L	-	0.01	0.03	<1	MOI, B.E.2548	Bangkok
Chromium	mg/L	-	0.03	0.79	<5	MOI, B.E.2548	Bangkok
Copper	mg/L	-	0.01	0.23	<25	MOI, B.E.2548	Bangkok
Lead	mg/L	-	0.01	1.24	<5	MOI, B.E.2548	Bangkok
Manganese	mg/L	-	0.01	8.68	No Standard	MOI, B.E.2548	Bangkok
Mercury	mg/L	-	0.001	<0.001	<0.2	MOI, B.E.2548	Bangkok
Nickel	mg/L	-	0.01	1.58	<20	MOI, B.E.2548	Bangkok
Selenium	mg/L	-	0.01	<0.01	<1	MOI, B.E.2548	Bangkok
Zinc	mg/L	-	0.01	57.9	<250	MOI, B.E.2548	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Sampling By : Teerawat Puangsuk

Remark :

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

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Analysis / Test Report

Lot ID: 23109408

Client : WHA Utilities and Power Public Company Limited

111 Moo 7, Nongplakrad Road, Nongplamoh, Nongkhae, Saraburi Thailand 18140

P/O : Date Received : Oct 05, 2023

Project Name : Date Reported : Oct 14, 2023

Project Location : WHA SIL Report Number : 2780317-1

Page 6 of 6

Sample Number	23109408-4
Sampled Date	Oct 05, 2023 11:35 AM
Sample Description	Solid Waste
Location	WHA SIL : ภาศนาภาพจนนศึกษาโปลิตองลาทวกร
Date Analysis Commenced	Oct 07, 2023
Condition of Sample	Packed in one plastic bag, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Waste Extraction Test (STLC) : Metals							
Arsenic	mg/L	-	0.01	0.15	<5	MOI, B.E.2548	Bangkok
Barium	mg/L	-	0.01	2.12	<100	MOI, B.E.2548	Bangkok
Cadmium	mg/L	-	0.01	<0.01	<1	MOI, B.E.2548	Bangkok
Chromium	mg/L	-	0.03	0.07	<5	MOI, B.E.2548	Bangkok
Copper	mg/L	-	0.01	0.17	<25	MOI, B.E.2548	Bangkok
Lead	mg/L	-	0.01	0.11	<5	MOI, B.E.2548	Bangkok
Manganese	mg/L	-	0.01	22.3	No Standard	MOI, B.E.2548	Bangkok
Mercury	mg/L	-	0.001	<0.001	<0.2	MOI, B.E.2548	Bangkok
Nickel	mg/L	-	0.01	0.03	<20	MOI, B.E.2548	Bangkok
Selenium	mg/L	-	0.01	<0.01	<1	MOI, B.E.2548	Bangkok
Zinc	mg/L	-	0.01	1.13	<250	MOI, B.E.2548	Bangkok

Guideline : Notification of the Ministry of Industry regarding Waste or Used Material Disposal, published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Sampling By : Teerawat Puangsuk

Remark :

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

The above results are valid only for the analyzed/tested sample(s) as indicated in the report. The results are not valid for other samples without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

Approved by
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