

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148673

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number: 2183030-1

Page 1 of 1

Sample Description	Air Quality				
Location	วัดคลองเขิน (A1) (GPS 47P 0701612, 1593740)				
Date Analysis Commenced	Jan 26, 2022				
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/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
21148673-1	Jan 14 - Jan 15, 2022	0.166	0.075	759	33
21148673-2	Jan 15 - Jan 16, 2022	0.177	0.077	759	33
21148673-3	Jan 16 - Jan 17, 2022	0.162	0.087	759	34
21148673-4	Jan 17 - Jan 18, 2022	0.189	0.092	759	34
21148673-5	Jan 18 - Jan 19, 2022	0.152	0.063	759	34
21148673-6	Jan 19 - Jan 20, 2022	0.199	0.073	759	34
21148673-7	Jan 20 - Jan 21, 2022	0.132	0.059	759	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 : Winyou Boontana

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148673

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number: 2220-PPf1

Page 1 of 1

Sample Description	Air Quality					
Location	บ้านบัวลอย 276 QS 4PQ 05-8952, 19-42417					
Date Analysis Commenced	Jan 25, 2022					
Condition of Sample	Drawn into one glass (filter paper 6x10 inch) placed in plastic bag and one quartz (filter paper 6x10 inch) placed in plastic bag					
Sample Number	Sampled Date	Total Suspended Particulate (µg/m ³)	Particulate Matter (PM ₁₀) (µg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)	
211485P3f8	Jan 14 - Jan 19, 2022	0.124	0.05P	P9-	33	
211485P3f-	Jan 19 - Jan 15, 2022	0.115	0.053	P9-	33	
211485P3f10	Jan 15 - Jan 1P, 2022	0.133	0.080	P9-	34	
211485P3f11	Jan 1P - Jan 18, 2022	0.153	0.102	P9-	34	
211485P3f12	Jan 18 - Jan 1-, 2022	0.11-	0.05P	P9-	34	
211485P3f13	Jan 1- - Jan 20, 2022	0.124	0.051	P9-	34	
211485P3f14	Jan 20 - Jan 21, 2022	0.0-1	0.054	P9-	33	
Guideline		0.33	0.12	f	f	

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 90 Appendix B

Particulate Matter (PM₁₀) : US EPA 40 CFR Part 90 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 B.E.294P7 dated September 22, 2004

Sampled By : Winyou Boontana

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist #7

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21148673

Date Received : Jan 24, 2022

Date Reported : Feb 01, 2022

Report Number: 2220-P8f1

Page 1 of 1

Sample Description	Air) uality				
Location	วัดท่าช้าง GA37 QS 4PQ 0P01331, 15-55-47				
Date Analysis Commenced	Jan 29, 2022				
Condition of Sample	Drawn into one glass (ilter paper 6x10 inch7 placed in plastic bag and one quartz (ilter paper 6x10 inch7 placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate Gng/m37	Particulate Matter Gng/m37	Barometric Pressure Gng Hg7	Atmospheric Temperature C7
211489P3f15	Jan 14 f Jan 15, 2022	0.14-	0.0P5	P5-	33
211489P3f19	Jan 15 f Jan 19, 2022	0.15-	0.088	P5-	33
211489P3f1P	Jan 19 f Jan 1P, 2022	0.188	0.0-4	P5-	34
211489P3f18	Jan 1P f Jan 18, 2022	0.18P	0.0-4	P5-	34
211489P3f1-	Jan 18 f Jan 1-, 2022	0.155	0.05-	P5-	34
211489P3f20	Jan 1- f Jan 20, 2022	0.143	0.095	P5-	34
211489P3f21	Jan 20 f Jan 21, 2022	0.159	0.0P-	P5-	33
Guideline		0.33	0.12	f	f

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter Gng/m37 : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 B.E.254P7 dated September 22, 2004

Sampled By : Winyou Boontana

Approved by

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Saranya Chalermthamrong
Scientist G7

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Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21148670

Date Received : Jan 24, 2022

Date Reported : Jan 28, 2022

Report Number: 2183027-1

Page 1 of 1

Sample Description Air Quality
Location วัดร่องแซง (A1) (GPS 47P 0701612, 1593740)
Parameter Nitrogen dioxide (ppm)
Measurement Date Jan 14, 2022 - Jan 21, 2022
Measurement by Winyou Boontana

	21148670-1 Jan 14, 2022	21148670-2 Jan 15, 2022	21148670-3 Jan 16, 2022	21148670-4 Jan 17, 2022	21148670-5 Jan 18, 2022	21148670-6 Jan 19, 2022	21148670-7 Jan 20, 2022
Time							
12:00 PM - 01:00 PM	0.038	0.008	0.007	0.032	0.012	0.012	0.011
01:00 PM - 02:00 PM	0.036	0.008	0.006	0.023	0.012	0.010	0.010
02:00 PM - 03:00 PM	0.010	0.009	0.007	0.016	0.010	0.008	0.008
03:00 PM - 04:00 PM	0.012	0.008	0.006	0.012	0.010	0.011	0.011
04:00 PM - 05:00 PM	0.016	0.011	0.010	0.011	0.011	0.016	0.012
05:00 PM - 06:00 PM	0.024	0.016	0.014	0.026	0.016	0.017	0.016
06:00 PM - 07:00 PM	0.027	0.029	0.019	0.027	0.030	0.029	0.026
07:00 PM - 08:00 PM	0.050	0.060	0.029	0.042	0.050	0.040	0.038
08:00 PM - 09:00 PM	0.043	0.042	0.043	0.041	0.060	0.041	0.041
09:00 PM - 10:00 PM	0.035	0.045	0.038	0.055	0.029	0.040	0.040
10:00 PM - 11:00 PM	0.042	0.042	0.034	0.056	0.024	0.036	0.035
11:00 PM - 12:00 AM	0.043	0.037	0.039	0.053	0.019	0.037	0.031
12:00 AM - 01:00 AM	0.032	0.028	0.039	0.046	0.018	0.034	0.026
01:00 AM - 02:00 AM	0.020	0.029	0.034	0.043	0.024	0.029	0.024
02:00 AM - 03:00 AM	0.020	0.021	0.029	0.040	0.027	0.025	0.022
03:00 AM - 04:00 AM	0.026	0.018	0.028	0.033	0.020	0.024	0.016
04:00 AM - 05:00 AM	0.026	0.024	0.025	0.027	0.013	0.026	0.018
05:00 AM - 06:00 AM	0.018	0.031	0.030	0.028	0.012	0.023	0.020
06:00 AM - 07:00 AM	0.021	0.028	0.032	0.031	0.015	0.021	0.017
07:00 AM - 08:00 AM	0.021	0.021	0.024	0.031	0.021	0.015	0.023
08:00 AM - 09:00 AM	0.022	0.022	0.022	0.034	0.028	0.022	0.023
09:00 AM - 10:00 AM	0.034	0.034	0.038	0.038	0.026	0.029	0.018
10:00 AM - 11:00 AM	0.030	0.013	0.031	0.030	0.021	0.029	0.017
11:00 AM - 12:00 PM	0.009	0.008	0.016	0.013	0.016	0.013	0.013
Average	0.027	0.025	0.025	0.033	0.022	0.025	0.021
1hr - Maximum	0.050	0.060	0.043	0.056	0.060	0.041	0.041
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 EPAMethod Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21148670

Date Received : Jan 24, 2022

Date Reported : Jan 28, 2022

Report Number: 2218780-1

Page 1 of 1

Sample Description	Air Quality						
Location	บ้านบัวลอย (A2) (GPS 46P 0578952, 1974241)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Jan 14, 2022 - Jan 21, 2022						
Measurement by	Winyou Boontana						
	21148560-8	21148560-7	21148560-10	21148560-11	21148560-12	21148560-13	21148560-14
Time	Jan 14, 2022	Jan 19, 2022	Jan 15, 2022	Jan 16, 2022	Jan 18, 2022	Jan 17, 2022	Jan 20, 2022
10:00 AM - 11:00 AM	0.015	0.017	0.017	0.029	0.024	0.020	0.023
11:00 AM - 12:00 PM	0.015	0.014	0.020	0.024	0.024	0.020	0.020
12:00 PM - 01:00 PM	0.015	0.012	0.021	0.024	0.023	0.017	0.016
01:00 PM - 02:00 PM	0.023	0.013	0.017	0.023	0.024	0.020	0.015
02:00 PM - 03:00 PM	0.029	0.014	0.016	0.023	0.025	0.029	0.019
03:00 PM - 04:00 PM	0.025	0.013	0.016	0.023	0.020	0.028	0.016
04:00 PM - 09:00 PM	0.025	0.013	0.018	0.023	0.020	0.029	0.015
09:00 PM - 05:00 PM	0.025	0.019	0.018	0.023	0.020	0.024	0.018
05:00 PM - 06:00 PM	0.024	0.018	0.020	0.026	0.029	0.025	0.022
06:00 PM - 08:00 PM	0.025	0.023	0.021	0.032	0.033	0.029	0.022
08:00 PM - 07:00 PM	0.020	0.021	0.022	0.028	0.030	0.022	0.022
07:00 PM - 10:00 PM	0.016	0.017	0.018	0.024	0.024	0.022	0.022
10:00 PM - 11:00 PM	0.015	0.018	0.019	0.024	0.020	0.017	0.029
11:00 PM - 12:00 AM	0.020	0.023	0.020	0.023	0.018	0.016	0.022
12:00 AM - 01:00 AM	0.017	0.020	0.021	0.029	0.017	0.018	0.022
01:00 AM - 02:00 AM	0.019	0.020	0.016	0.024	0.021	0.017	0.021
02:00 AM - 03:00 AM	0.013	0.018	0.015	0.021	0.020	0.015	0.018
03:00 AM - 04:00 AM	0.013	0.014	0.019	0.018	0.016	0.019	0.016
04:00 AM - 09:00 AM	0.012	0.015	0.014	0.017	0.019	0.019	0.015
09:00 AM - 05:00 AM	0.011	0.021	0.014	0.020	0.019	0.014	0.019
05:00 AM - 06:00 AM	0.011	0.024	0.015	0.018	0.016	0.013	0.019
06:00 AM - 08:00 AM	0.014	0.022	0.013	0.020	0.017	0.010	0.014
08:00 AM - 07:00 AM	0.014	0.024	0.012	0.017	0.020	0.013	0.014
07:00 AM - 10:00 AM	0.016	0.019	0.019	0.022	0.020	0.016	0.015
Average	0.018	0.018	0.016	0.023	0.021	0.017	0.017
1hr - Maximum	0.025	0.024	0.022	0.032	0.033	0.028	0.029
Standard 1hr - Average	0.160	0.160	0.160	0.160	0.160	0.160	0.160

Standard : Notification of the National Environment Board No. 33, 2007 (B.E. 2992).

Reference Method : US EPAMethod Part 90 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21148670

Date Received : Jan 24, 2022

Date Reported : Jan 28, 2022

Report Number: 2218982-1

Page 1 of 1

Sample Description	Air Quality						
Location	วัดท่าช้าง (A3) (GPS 47P 0701331, 1595594)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	Jan 14, 2022 - Jan 21, 2022						
Measurement by	Winyou Boontana						
	21148670-15	21148670-16	21148670-17	21148670-18	21148670-19	21148670-20	21148670-21
Time	Jan 14, 2022	Jan 15, 2022	Jan 16, 2022	Jan 17, 2022	Jan 18, 2022	Jan 19, 2022	Jan 20, 2022
11:00 AM - 12:00 PM	0.004	0.003	0.003	0.003	<0.001	0.002	0.005
12:00 PM - 01:00 PM	0.006	0.003	0.003	<0.001	0.002	0.004	0.003
01:00 PM - 02:00 PM	0.005	0.003	0.002	0.001	0.001	0.004	0.002
02:00 PM - 03:00 PM	0.007	0.003	0.002	0.001	0.002	0.004	0.002
03:00 PM - 04:00 PM	0.009	0.003	0.002	<0.001	0.001	0.003	0.002
04:00 PM - 05:00 PM	0.009	0.003	0.003	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.005	0.004	0.003	0.002	0.003	0.003	0.002
06:00 PM - 07:00 PM	0.007	0.005	0.003	0.002	0.002	0.004	0.004
07:00 PM - 08:00 PM	0.008	0.005	0.004	0.003	0.002	0.007	0.007
08:00 PM - 09:00 PM	0.008	0.006	0.005	0.004	0.004	0.007	0.012
09:00 PM - 10:00 PM	0.007	0.007	0.004	0.004	0.006	0.009	0.014
10:00 PM - 11:00 PM	0.006	0.007	0.004	0.004	0.006	0.013	0.011
11:00 PM - 12:00 AM	0.005	0.006	0.004	0.004	0.003	0.012	0.009
12:00 AM - 01:00 AM	0.004	0.005	0.004	0.003	0.002	0.012	0.007
01:00 AM - 02:00 AM	0.003	0.004	0.005	0.003	0.002	0.011	0.007
02:00 AM - 03:00 AM	0.003	0.004	0.006	0.002	0.003	0.010	0.006
03:00 AM - 04:00 AM	0.003	0.004	0.005	0.001	0.001	0.010	0.006
04:00 AM - 05:00 AM	0.002	0.004	0.004	0.001	0.001	0.010	0.005
05:00 AM - 06:00 AM	0.002	0.005	0.004	0.001	<0.001	0.009	0.005
06:00 AM - 07:00 AM	0.002	0.004	0.005	<0.001	<0.001	0.008	0.004
07:00 AM - 08:00 AM	0.002	0.004	0.006	<0.001	<0.001	0.007	0.005
08:00 AM - 09:00 AM	0.002	0.005	0.005	<0.001	<0.001	0.007	0.008
09:00 AM - 10:00 AM	0.003	0.004	0.004	0.002	0.001	0.011	0.008
10:00 AM - 11:00 AM	0.003	0.004	0.003	<0.001	0.002	0.011	0.006
Average	0.005	0.004	0.004	0.002	0.002	0.007	0.006
1hr - Maximum	0.009	0.007	0.006	0.004	0.006	0.013	0.014
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 EPAMethod Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID : 21148674

Date Received : Jan 24, 2022

Date Reported : Jan 26, 2022

Report Number : 2183031-1

Page 1 of 2

Sample Number 21148674-1 to 7
Parameter Wind Speed / Wind Direction
Location วัดร่องแซง (A1) (GPS 47P 0701612, 1593740)
Sampling Date Jan 14 - Jan 21, 2022
Sampling by Winyou Boontana

Time	Jan 14 - Jan 15, 2022			Jan 15 - Jan 16, 2022			Jan 16 - Jan 17, 2022			Jan 17 - Jan 18, 2022			Jan 18 - Jan 19, 2022			Jan 19 - Jan 20, 2022			Jan 20 - Jan 21, 2022		
	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)	
12:00 PM - 01:00 PM	0.2	-	-	1.8	213.0	SSW	2.8	229.0	SW	0.5	236.0	SW	1.2	324.0	NW	0.6	344.0	NNW	1.1	206.0	SSW
01:00 PM - 02:00 PM	0.4	165.0	SSE	0.9	97.0	E	0.9	103.0	ESE	2.2	280.0	W	0.2	-	-	0.7	148.0	SSE	0.7	137.0	SE
02:00 PM - 03:00 PM	0.7	189.0	S	1.1	150.0	SSE	0.5	182.0	S	1.1	225.0	SW	0.8	198.0	SSW	0.0	-	-	1.0	18.0	NNE
03:00 PM - 04:00 PM	0.3	114.0	ESE	2.7	223.0	SW	0.1	-	-	0.5	0.0	N	0.7	221.0	SW	0.0	-	-	2.1	241.0	WSW
04:00 PM - 05:00 PM	0.6	264.0	W	0.4	122.0	ESE	0.4	142.0	SE	1.4	213.0	SSW	0.0	-	-	2.5	218.0	SW	0.4	167.0	SSE
05:00 PM - 06:00 PM	0.0	-	-	1.5	221.0	SW	0.8	229.0	SW	0.0	-	-	0.9	229.0	SW	0.2	-	-	0.0	-	-
06:00 PM - 07:00 PM	0.5	214.0	SW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.4	233.0	SW	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.8	218.0	SW
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	238.0	WSW	0.3	295.0	WNW	0.0	-	-	0.3	224.0	SW
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-
11:00 PM - 12:00 AM	0.3	139.0	SE	0.3	151.0	SSE	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.1	-	-
12:00 AM - 01:00 AM	0.1	-	-	0.3	105.0	ESE	0.5	226.0	SW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	3.0	N	0.0	-	-	0.1	-	-
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.3	17.0	NNE	0.0	-	-	0.2	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.5	123.0	ESE	0.0	-	-	0.4	106.0	ESE
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.5	353.0	N	0.1	-	-	0.0	-	-	1.1	66.0	ENE
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.4	359.0	N	0.0	-	-	0.2	-	-	0.0	-	-	0.4	359.0	N
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.1	-	-
08:00 AM - 09:00 AM	0.2	-	-	0.1	-	-	0.0	-	-	0.3	124.0	SE	0.5	9.0	N	0.0	-	-	0.0	-	-
09:00 AM - 10:00 AM	2.0	91.0	E	1.0	185.0	S	0.3	359.0	N	0.0	-	-	0.2	-	-	0.4	85.0	E	0.5	42.0	NE
10:00 AM - 11:00 AM	0.5	22.0	NNE	1.6	224.0	SW	0.5	4.0	N	0.3	315.0	NW	2.1	46.0	NE	0.3	97.0	E	0.3	25.0	NNE
11:00 AM - 12:00 PM	0.2	-	-	0.9	109.0	ESE	0.5	326.0	NW	1.5	35.0	NE	0.7	26.0	NNE	0.5	87.0	E	0.2	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID : 21148674

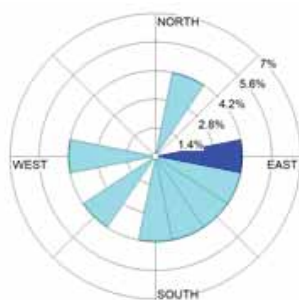
Date Received : Jan 24, 2022

Date Reported : Jan 26, 2022

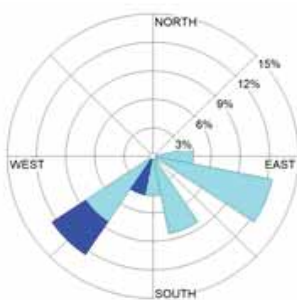
Report Number : 2183031-1

Page 2 of 2

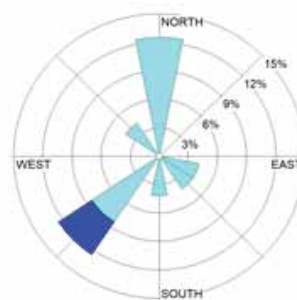
Wind Rose



Date : Jan 14-15, 2022



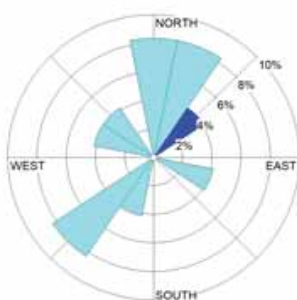
Date : Jan 15-16, 2022



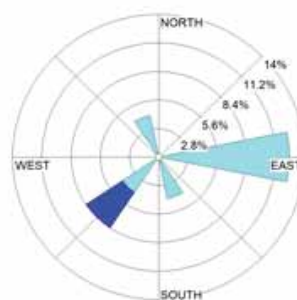
Date : Jan 16-17, 2022



Date : Jan 17-18, 2022



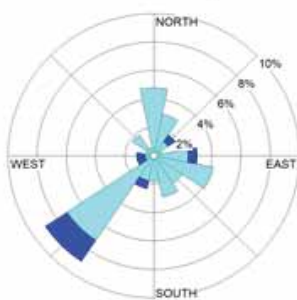
Date : Jan 18-19, 2022



Date : Jan 19-20, 2022



Date : Jan 20-21, 2022



Date : Jan 14-21, 2022

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	4.76
0.3-1.7	36.31
Calms	58.93

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID : 21148674
Date Received : Jan 24, 2022
Date Reported : Jan 26, 2022
Report Number : 2183031-1

Page 1 of 2

Sample Number : 21148674-8 to 14
Parameter : Wind Speed / Wind Direction
Location : บ้านบัวลอย (A2) (GPS 47P 0698562, 1594241)
Sampling Date : Jan 14 - Jan 21, 2022
Sampling by : Winyou Boontana

Time	Jan 14 - Jan 15, 2022			Jan 15 - Jan 16, 2022			Jan 16 - Jan 17, 2022			Jan 17 - Jan 18, 2022			Jan 18 - Jan 19, 2022			Jan 19 - Jan 20, 2022			Jan 20 - Jan 21, 2022		
	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	1.1	334.0	NNW	0.4	150.0	SSE	1.7	168.0	SSE	0.6	11.0	N	0.0	-	-	2.7	10.0	N	2.3	208.0	SSW
11:00 AM - 12:00 PM	3.1	121.0	ESE	2.8	163.0	SSE	2.4	201.0	SSW	0.2	-	-	0.0	-	-	0.5	84.0	E	1.1	130.0	SE
12:00 PM - 01:00 PM	2.5	171.0	S	2.1	167.0	SSE	1.4	124.0	SE	1.9	359.0	N	0.0	-	-	0.0	-	-	3.4	205.0	SSW
01:00 PM - 02:00 PM	1.8	152.0	SSE	0.1	-	-	1.4	191.0	S	0.3	180.0	S	0.0	-	-	0.6	121.0	ESE	1.1	163.0	SSE
02:00 PM - 03:00 PM	1.6	186.0	S	1.7	148.0	SSE	0.5	195.0	SSW	1.1	170.0	S	0.4	170.0	S	0.0	-	-	2.3	160.0	SSE
03:00 PM - 04:00 PM	3.2	165.0	SSE	2.0	159.0	SSE	0.3	0.0	N	0.4	113.0	ESE	2.5	209.0	SSW	0.7	143.0	SE	1.2	182.0	S
04:00 PM - 05:00 PM	1.3	165.0	SSE	1.5	190.0	S	0.4	213.0	SSW	1.0	197.0	SSW	1.3	173.0	S	1.1	198.0	SSW	1.2	137.0	SE
05:00 PM - 06:00 PM	1.1	196.0	SSW	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.8	171.0	S
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.3	359.0	N	0.1	-	-	0.4	5.0	N	0.0	-	-	0.8	21.0	NNE	0.0	-	-	0.5	167.0	SSE
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.3	2.0	N	1.2	9.0	N	0.0	-	-	0.5	136.0	SE
10:00 PM - 11:00 PM	0.0	-	-	0.3	29.0	NNE	0.0	-	-	0.0	-	-	0.9	16.0	NNE	0.0	-	-	0.4	126.0	SE
11:00 PM - 12:00 AM	0.3	135.0	SE	0.9	127.0	SE	0.9	2.0	N	0.0	-	-	2.0	6.0	N	0.0	-	-	1.2	119.0	ESE
12:00 AM - 01:00 AM	0.2	-	-	0.7	104.0	ESE	0.2	-	-	0.0	-	-	0.6	8.0	N	0.5	359.0	N	0.9	145.0	SE
01:00 AM - 02:00 AM	0.1	-	-	0.0	-	-	0.9	124.0	SE	0.0	-	-	0.7	359.0	N	0.0	-	-	0.7	154.0	SSE
02:00 AM - 03:00 AM	0.3	154.0	SSE	0.0	-	-	0.6	167.0	SSE	0.0	-	-	2.0	359.0	N	0.7	0.0	N	0.7	121.0	ESE
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.4	359.0	N	0.0	-	-	0.4	133.0	SE	0.0	-	-
04:00 AM - 05:00 AM	0.3	359.0	N	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.6	136.0	SE
05:00 AM - 06:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	0.6	359.0	N	1.2	3.0	N	0.0	-	-	1.4	124.0	SE
06:00 AM - 07:00 AM	0.8	357.0	N	0.0	-	-	0.0	-	-	0.0	-	-	1.9	16.0	NNE	0.0	-	-	1.9	1.0	N
07:00 AM - 08:00 AM	0.0	-	-	0.7	8.0	N	0.0	-	-	0.0	-	-	0.7	21.0	NNE	0.2	-	-	0.0	-	-
08:00 AM - 09:00 AM	0.7	7.0	N	0.4	354.0	N	0.2	-	-	0.0	-	-	2.3	359.0	N	0.6	172.0	S	0.3	359.0	N
09:00 AM - 10:00 AM	1.3	178.0	S	0.4	1.0	N	0.3	346.0	NNW	0.0	-	-	2.3	35.0	NE	1.2	0.0	N	0.2	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID : 21148674

Date Received : Jan 24, 2022

Date Reported : Jan 26, 2022

Report Number : 2183031-1

Page 2 of 2

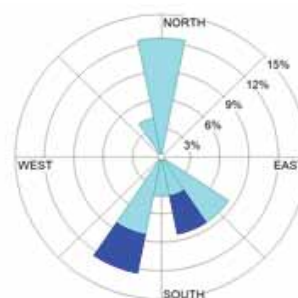
Wind Rose



Date : Jan 14-15, 2022



Date : Jan 15-16, 2022



Date : Jan 16-17, 2022



Date : Jan 17-18, 2022



Date : Jan 18-19, 2022



Date : Jan 19-20, 2022



Date : Jan 20-21, 2022



Date : Jan 14-21, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	12.50
0.3-1.7	41.66
Calms	45.24

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Approved by

Sarayuth Jitranont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID : 21148674

Date Received : Jan 24, 2022

Date Reported : Jan 26, 2022

Report Number : 2183031-1

Page 1 of 2

Sample Number 21148674-15 to 21
Parameter Wind Speed / Wind Direction
Location วัดท่าช้าง (A3) (GPS 47P 0701331, 1595594)
Sampling Date Jan 14 - Jan 21, 2022
Sampling by Winyou Boontana

Time	Jan 14 - Jan 15, 2022			Jan 15 - Jan 16, 2022			Jan 16 - Jan 17, 2022			Jan 17 - Jan 18, 2022			Jan 18 - Jan 19, 2022			Jan 19 - Jan 20, 2022			Jan 20 - Jan 21, 2022		
	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)	
11:00 AM - 12:00 PM	0.1	-	-	0.0	-	-	1.3	242.0	WSW	1.8	38.0	NE	1.0	59.0	ENE	0.6	26.0	NNE	0.3	178.0	S
12:00 PM - 01:00 PM	1.4	232.0	SW	0.6	263.0	W	0.0	-	-	0.9	64.0	ENE	0.7	288.0	WNW	1.0	20.0	NNE	1.8	190.0	S
01:00 PM - 02:00 PM	2.0	200.0	SSW	0.5	205.0	SSW	0.0	-	-	0.4	67.0	ENE	1.5	287.0	WNW	0.0	-	-	0.6	200.0	SSW
02:00 PM - 03:00 PM	1.0	207.0	SSW	0.2	-	-	0.6	60.0	ENE	0.0	-	-	1.2	297.0	WNW	0.1	-	-	1.0	198.0	SSW
03:00 PM - 04:00 PM	0.0	-	-	0.4	217.0	SW	1.2	267.0	W	0.6	285.0	WNW	0.9	288.0	WNW	1.5	167.0	SSE	1.3	180.0	S
04:00 PM - 05:00 PM	0.5	185.0	S	0.1	-	-	1.0	246.0	WSW	0.3	190.0	S	1.5	180.0	S	0.4	164.0	SSE	2.0	168.0	SSE
05:00 PM - 06:00 PM	0.9	195.0	SSW	0.0	-	-	0.5	238.0	WSW	0.5	242.0	WSW	0.4	232.0	SW	0.8	169.0	S	0.2	-	-
06:00 PM - 07:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
07:00 PM - 08:00 PM	0.0	-	-	0.1	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.0	-	-	0.0	-	-
08:00 PM - 09:00 PM	0.0	-	-	0.2	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.6	310.0	NW	0.5	46.0	NE	0.1	-	-	1.6	171.0	S
10:00 PM - 11:00 PM	0.2	-	-	0.2	-	-	0.0	-	-	0.2	-	-	0.2	-	-	0.1	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.3	175.0	S	0.1	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.3	145.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.1	-	-	0.1	-	-	1.0	146.0	SE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.2	-	-	0.2	-	-	0.3	169.0	S	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.0	-	-
05:00 AM - 06:00 AM	0.1	-	-	0.3	125.0	SE	0.1	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.0	-	-
06:00 AM - 07:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.1	-	-	0.0	-	-	0.1	-	-
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.5	307.0	NW	0.0	-	-	0.3	36.0	NE	0.0	-	-	0.2	-	-
08:00 AM - 09:00 AM	0.1	-	-	0.0	-	-	0.2	-	-	0.1	-	-	1.7	30.0	NNE	0.0	-	-	0.0	-	-
09:00 AM - 10:00 AM	0.0	-	-	1.6	164.0	SSE	0.2	-	-	0.5	150.0	SSE	2.2	45.0	NE	0.3	183.0	S	0.0	-	-
10:00 AM - 11:00 AM	1.4	171.0	S	0.9	224.0	SW	0.7	165.0	SSE	0.2	-	-	1.6	28.0	NNE	1.4	60.0	ENE	0.1	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont
Assistant General Manager



Analysis / Test Report

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID : 21148674

Date Received : Jan 24, 2022

Date Reported : Jan 26, 2022

Report Number : 2183031-1

Page 2 of 2

Wind Rose



Date : Jan 14-15, 2022



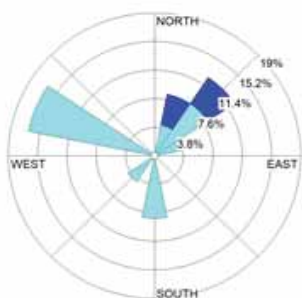
Date : Jan 15-16, 2022



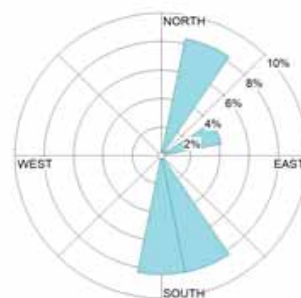
Date : Jan 16-17, 2022



Date : Jan 17-18, 2022



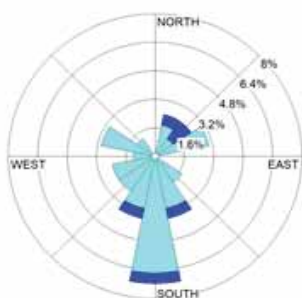
Date : Jan 18-19, 2022



Date : Jan 19-20, 2022



Date : Jan 20-21, 2022



Date : Jan 14-21, 2022

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	3.57
0.3-1.7	30.36
Calms	66.07

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Approved by

Sarayuth Jitranont
Assistant General Manager

ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148783

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183073-1

Page 1 of 1

Sample Number 21148783-1
Sampled Date Jan 20, 2022
Sample Description Emission from Stationary Source
Location Bag House 1 (1BH-1) : MCL1
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	760	mmHg	Diameter	1.50	m	Oxygen	20.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	44.9	°C	Gas Velocity	11.5	m/s
Type of Fuel	-		Moisture	2.14	%	Flow Rate (Actual O2)	66876	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	09:10 AM - 09:58 AM	mg/m3	-	0.5	1.4	40	120	US EPA, Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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S:\Reports_Air Stack_2GL.rpt (5:56PM)



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148785

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183078-1

Page 1 of 1

Sample Number 2114878H-1
Sampled Date Jan 20, 2022
Sample Description Emission from Stationary Source
Location Bag (ouse 2)1B(-26: MCL1
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	700	mm(g	Diameter	1.H0	m	%xygen	20.0	9
Ambient Temperature	32.0	FC	Shape	Circle		Carbon Dioxide	0.0	9
Type of Process	Process		Stack Temperature	43.2	FC	Gas Velocity	4.3	m/s
Type of Fuel	-		Moisture	2.02	9	Slow Rate)Actual %26	2H22	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:20 AM - 11:08 AM	mg/m3	-	0.H	U0.H	40	120	I S EPA, Method H	Bangkok

Guideline : Guideline)16: Environmental Impact Assessment Report of Magotteaux Co., Ltd.)B.E.2H46
Guideline)26: Notification of the Ministry of Science, Tecnology and Environmetal)B.E.2H46: New Source

Sampled By : Apisit Singha

Remark :

- L%D : Limit of Detection
- <L% : Lower than L%)Limit of " uantitation6/ L%R)Limit of Reporting6
- Analyte)s6 marked * is/are not included in scope of Accreditation)B.E.2H46

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist)46
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-0111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148786

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218308471

- age 1 oP1

Sample Number 21148f 8H71
Sampled Date Jan 18, 2022
Sample Description Emission From Stationary Source
Location Bag (ouse H)1B(736: MCL1
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one Rlter paper placed in plastic petri dish

Stack Description

Ambient - ressure	f HD	mm(g	Diameter	0.50	m	Oxygen	20.5	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type oP- rocess	- rocess		Stack Temperature	94.H	°C	Gas Velocity	12.H	m/s
Type oPFuel	7		Moisture	1.55	%	Flow Rate)Actual O26	29f 34	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended - articulate	02:90 - M 703:38 - M	mg/m3	7	0.9	1.3	40	120	US E- A, Method 9	Bangkok

Guideline : Guideline)16: Environmental Impact Assessment Report oPMagotteaux Co., Ltd.)B.E.29946
Guideline)26: NotiRcation oPthe Ministry oPScience, Tecnology and Environmetal)B.E.29446: New Source

Sampled By : Apisit Singha

Remark :

- LOD : Limit oPDetection
- "<" : Lower than LOQ)Limit oPQuantitation6 / LOR)Limit oPReporting6
- Analyte)s6 marked * is/are not included in scope oPAccreditation ISO/IEC 1f 029.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist)46
ทะเบียนเลขที่ 7204774f 1f

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ 7204774f 111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148804

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183172-1

Page 1 of 1

Sample Number	21148804-1
Sampled Date	Jan 18, 2022
Sample Description	Emission from Stationary Source
Location	ปล่องระบายไอร่อน HT2 Stack1 (2SN-1)
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Extracted into two 2-L collection flasks, one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	670	mmHg	Diameter	0.90	m	Fxygen	16.6	O
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	1.8	O
Type of Process	Combustion (F pen System)		Stack Temperature	183	°C	Gas Velocity	7.8	m/s
Type of Fuel	LP9		Moisture	6.27	O	Flow Rate (Actual F2)	2V08	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide Q	12:00 PM - 12:10 PM	ppm	-	1.0	U1.0	-	7V0 (3)	I S EPA, Method 10	Bangkok
Fluxides of Nitrogen Q	11:40 AM - 12:00 PM	ppm	-	1.07	7.34	70	180	I S EPA, Method 6	Bangkok
Total Suspended Particulate	11:40 AM - 12:26 PM	mg/m3	-	0.0%	U0.0%	70	120	I S EPA, Method %	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2544)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source
Guideline (3) : Notification of the Ministry of Industry 2007 (B.E. 254V) Published in the Royal Government Gazette, Vol.123 Special Part 12% D, dated December 4, 2007 (B.E. 254V)

Sampled By : Apisit Singha

Remark :

- LFD : Limit of Detection
- LUK : Lower than LFD* (Limit of Quantitation) / LFR (Limit of Reporting)
- Analyte(s) marked Q is/are not included in scope of Accreditation "SF/EC 1602"

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4616

Approved by

Kanok Korn Anek
zanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-7111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148806

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183173-1

Page 1 of 1

Sample Number	21148807-1
Sampled Date	Jan 18, 2022
Sample Description	Emission from Stationary Source
Location	ปล่องระบายไอร่อน HT2 Stack2 (2SN-2)
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Extracted into two 2-L collection flasks, one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	670	mmHg	Diameter	0.7%	m	Fxygen	18.0%	O
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	1.2	O
Type of Process	Combustion (F pen System)		Stack Temperature	140	°C	Gas Velocity	6.7	m/s
Type of Fuel	LP9		Moisture	7.0%	O	Flow Rate (Actual F2)	7.08	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide Q	10:00 AM - 11:00 AM	ppm	-	1.0	U1.0	-	7.0 (3)	I S EPA, Method 10	Bangkok
Fluxides of Nitrogen Q	10:40 AM - 10:00 AM	ppm	-	1.07	6.01	70	180	I S EPA, Method 6	Bangkok
Total Suspended Particulate	10:10 AM - 11:03 AM	mg/m3	-	0.0	U0.0	70	120	I S EPA, Method V	Bangkok

Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2544)

Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Guideline (3) : Notification of the Ministry of Industry 2007 (B.E. 2547) Published in the Royal Government Gazette, Vol.123 Special Part 12V D, dated December 4, 2007 (B.E. 2547)

Sampled By : Apisit Singha

Remark :

- LFD : Limit of Detection
- LUK : Lower than LFD* (Limit of Quantitation) / LFR (Limit of Reporting)
- Analyte(s) marked Q is/are not included in scope of Accreditation "SF/EC 1602V."

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4616

Approved by

Kanok Korn Anek
zanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-7111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148809

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218317- P1

Page 1 of 1

Sample Number 2114880- P1
Sampled Date Jan 18, 2022
Sample Description Emission from Stationary Source
Location (il circulate 2)2(CP26 : ° T2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one 10FL air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	F70	mmHg	Diameter	0.90	m	(oxygen	20.-	O
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	O
Type of process	process		Stack Temperature	F2.°	°C	Gas Velocity	13.8	m/s
Type of fuel	P		Moisture	2.28	O	Flow Rate Actual (26	8240	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended particulate	01:20 PM - 02:00 PM	mg/m3	P	0.0%	1.3	40	120	US EPA, Method 5	Bangkok

Guideline : Guideline 16: Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2546)
Guideline 26: Notification of the Ministry of Science, Technology and Environment (B.E.2546: New Source)

Sampled By : Apisit Singha

Remark :

- L (D) : Limit of Detection
- " < " : Lower than L (Q) Limit of Quantitation / L (R) Limit of Reporting
- Analytes marked * is/are not included in scope of Accreditation ISO/IEC 17025

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist 46
ทะเบียนเลขที่ วป204ปพ41F

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ วป204ปพ7111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21148809

Date Received : Jan 21, 2022
Date Reported : Jan 28, 2022
Report Number: 2183169-2

Page 1 of 1

Sample Number 21148809-1
Sampled Date Jan 18, 2022
Sample Description Emission from Stationary Source
Location Oil circulate 2 (2OC-2) : HT2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	760	mmHg	Diameter	0.50	m	Oxygen	20.9	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	72.5	°C	Gas Velocity	13.8	m/s
Type of Fuel	-		Moisture	2.28	%	Flow Rate (Actual O2)	8240	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Total Hydrocarbon as Methane	01:40 PM - 01:50 PM	ppm	-	1.0	53.3	Total Hydrocarbon Analyzer, Based on US EPA Method 25A	Bangkok
Total VOCs as Propane	01:40 PM - 01:50 PM	ppm	-	1.0	2.2	US EPA, Method 25A	Bangkok

Sampled By : Apisit Singha

Remark :

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

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148810

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218317- P1

Page 1 of 1

Sample Number 21148810P1
Sampled Date Jan 17, 2022
Sample Description Emission from Stationary Source
Location Bag (house 3) 3B(P16 : MCL2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient pressure	700	mmHg	Diameter	1.29	m	Oxygen	20.0	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	%
Type of process	process		Stack Temperature	43.0	°C	Gas Velocity	1.4	m/s
Type of fuel	P		Moisture	2.1	%	Slow Rate Actual O2	7-22	%

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended particulate	03:20 PM P04:08 PM	mg/m3	P	0.9	0.0	40	120	US EPA, Method 9	Bangkok

Guideline : Guideline 16: Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.29946)
Guideline 26: Notification of the Ministry of Science, Technology and Environment (B.E.29446 : New Source)

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analytes marked * is/are not included in scope of Accreditation ISO/IEC 17029.

Technical Management

Saranya Chalerthamrong
Scientist 46
ทะเบียนเลขที่ วป204ป4717

Approved by

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ วป204ป111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148813

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218318171

- age 1 of 1

Sample Number 2114881371
Sampled Date Jan 1f, 2022
Sample Description Emission From Stationary Source
Location Bag House 4 (3BH72) : MCL2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient - pressure	60	mmHg	Diameter	1.25	m	%Oxygen	20.0	9
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	9
Type of Process	- process		Stack Temperature	45.5	°C	Gas Velocity	21.6	m/s
Type of Fuel	7		Moisture	2.10	9	Flow Rate (Actual %2)	8 f f 38	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended - particulate	02:15 - M 703:03 - M	mg/m3	7	0.5	12.4	40	120	US E- A, Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Sampled By : Apisit Singha

Remark :

- L%Q : Limit of Detection
- "<" : Lower than L%Q (Limit of Quantitation) / L%R (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ 72047741f

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ 7204776111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148814

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218318371

- age 1 of 1

Sample Number 2114881471
Sampled Date Jan 1f, 2022
Sample Description Emission From Stationary Source
Location Bag House ()3BH736: MCL2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient - pressure	ft	mmHg	Diameter	1.2	m	%Oxygen	20.0	9
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	9
Type of Process	- Process		Stack Temperature	(3.0	°C	Gas Velocity	24.1	m/s
Type of Fuel	7		Moisture	2.21	%	Slow Rate Actual %	26	Q = 18 Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended - particulate	12:00 - 13:00	mg/m3	7	0.1	2.0	40	120	US EPA Method 5	Bangkok

Guideline : Guideline 16: Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2546)
Guideline 26: Notification of the Ministry of Science, Technology and Environment (B.E.2546): New Source

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOD (Limit of Quantitation / LOR) Limit of Reporting
- Analytes marked * is/are not included in scope of Accreditation ISO/IEC 17025

Technical Management

Saranya Chalerthamrong
Scientist 46
ทะเบียนเลขที่ 720474741f

Approved by

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ 7204747111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2261327

Date Received : Jul 04, 2022

Date Reported : Jul 12, 2022

Report Number: 2318930-1

Page 1 of 1

Sample Number	2261327-1
Sampled Date	Jul 04, 2022
Sample Description	Emission from Stationary Source
Location	ปล่อยระบายไอร่อน HT3 Stack 1 (3SN-1) : Condition 1
Date Analysis Commenced	Jul 05, 2022
Condition of Sample	Extracted into two 2-L collection flasks, one 10-L air sampling bag and one filter paper placed in plastic cassette

Stack Description

Ambient Pressure	754	mmHg	Diameter	0.7	m	Oxygen	11.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	6.1	%
Type of Process	Combustion (Open System)		Stack Temperature	314	°C	Gas Velocity	3.3	m/s
Type of Fuel	LPG		Moisture	7.27	%	Flow Rate (Actual O2)	2143	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Oxides of Nitrogen *	10:30 AM - 10:38 AM	ppm	-	1.06	24.3	60	180	US EPA, Method 7	Bangkok
Total Suspended Particulate	10:30 AM - 11:18 AM	mg/m3	-	0.5	<0.5	60	120	US EPA, Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)

Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Guideline (3) : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Sararat Mongkonjirawut
Supervisor

ทะเบียนเลขที่ ว-204-จ-4719

Approved by

Kanokkorn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2261327

Date Received : Jul 04, 2022

Date Reported : Jul 12, 2022

Report Number: 2318930-2

Page 1 of 1

Sample Number	2261327-1
Sampled Date	Jul 04, 2022
Sample Description	Emission from Stationary Source
Location	ปล่อยระบายไอระเหย HT3 Stack 1 (3SN-1) : Condition 1
Date Analysis Commenced	Jul 05, 2022
Condition of Sample	Extracted into two 2-L collection flasks, one 10-L air sampling bag and one filter paper placed in plastic cassette

Stack Description

Ambient Pressure	754	mmHg	Diameter	0.7	m	Oxygen	11.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	6.1	%
Type of Process	Combustion (Open System)		Stack Temperature	314	°C	Gas Velocity	3.3	m/s
Type of Fuel	LPG		Moisture	7.27	%	Flow Rate (Actual O2)	2143	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	10:40 AM - 10:50 AM	ppm	-	1.0	1.2	-	690 (3)	US EPA, Method 10	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source
Guideline (3) : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampled By : Apisit Singha

Remark :

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

Technical Management

Sararat Mongkonjirawut

Supervisor

ทะเบียนเลขที่ ว-204-จ-4719

Approved by

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 21148817

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183170-1

P/O :

Project Name : Environmental Testing

Project Location :

Page 1 of 1

Sample Number	2114881H1
Sampled Date	Jan 14, 2022
Sample Description	Emission from Stationary Source
Location	ปล่องระบายไอร้อน (T3 Stack 2)3SN-26
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Extracted into two 2-L collection flasks, one 10-L air sampling bag and one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	HP0	mm(g	Diameter	0.40	m	5xygen	13.1	G
Ambient Temperature	32.0	FC	Shape	Circle		Carbon Dioxide	0.2	G
Type of Process	Combustion)5 pen System6		Stack Temperature	3°°	FC	%as Velocity	11.°	m/s
Type of Fuel	LP%		Moisture	°°H2	G	Flow Rate)Actual 5 26	2872	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide I	11:00 AM - 11:10 AM	ppm	-	1.0	12.°	-	°70)36	US EPA, Method 10	Bangkok
5xides of Nitrogen I	11:10 AM - 11:20 AM	ppm	-	1.0°	8.00	°0	180	US EPA, Method H	Bangkok
Total Suspended Particulate	11:00 AM - 11:48 AM	mg/m3	-	0.0	0.8	°0	120	US EPA, Method O	Bangkok

Guideline : %uideline)16: Environmental Impact Assessment Report of Magotteaux Co., Ltd.)B.E.20046
%uideline)26: Notification of the Ministry of Science, Technology and Environmental)B.E.20446 : New Source
%uideline)36: Notification of the Ministry of Industry 200°)B.E. 20476 Published in the Royal %overnment %ette, Vol.123 Special Part 120 D,
dated December 4, 200°)B.E. 20476

Sampled By : Apisit Singha

Remark :

- L5 D : Limit of Detection
- *K* : Lower than L5 <)Limit of <uantitation6 / L5 R)Limit of Reporting6
- Analyte)s6 marked I is/are not included in scope of Accreditation)S /EC 1H020.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist)46
ทะเบียนเลขที่ ว-204-จ-4H1H

Approved by

Kanok Korn Anek
zanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-°111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2261332

Date Received : Jun 01, 2022

Date Reported : Jun 10, 2022

Report Number: 2318742-1

Page 1 of 1

Sample Number	22H1332-1
Sampled Date	Jun 01, 2022
Sample Description	Emission from Stationary Source
Location	(il Circulate 3)3(C-16 : ° T3 : Condition 1
Date Analysis Commenced	Jun 01, 2022
Condition of Sample	Extracted into one filter paper placed in plastic petri dish and one 10-L air sampling bag

Stack Description

Ambient Pressure	F57	mm ⁹ g	Diameter	0.70	m	(xygen	20.F	O
Ambient Temperature	33.0	9C	Shape	Circle		Carbon Dioxide	0.2	O
Type of Process	Process		Stack Temperature	40.0	9C	Gas Velocity	F.1	m/s
Type of %el	-		Moisture	2.51	O	%ow Rate)Actual (26	15004	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:00 AM - 10:48 AM	mg/m ³	-	0.5	U0.5	40	120	I S EPA, Method 5	Bangkok

Guideline : Guideline)16 : Environmental Impact Assessment Report of Magotteaux Co., Ltd.)B.E.25546
Guideline)26 : Notification of the Ministry of Science, Technology and Environment)B.E.25446 : New Source
Guideline)36 : Notification of the Ministry of Industry 200H)B.E. 25476 Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 200H)B.E. 25476

Sampled By : Anuvat Moungpai

Remark :

- L(D : Limit of Detection
- *U* : Lower than L(<)Limit of quantitation / L(R)Limit of Reporting
- Analyte(s) marked K is/are not included in scope of Accreditation (S(/EC 1F025.

Technical Management

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S:\Reports_Air Stack_2GL.rpt (5:35PM)



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2261332

Date Received : Jun 01, 2022

Date Reported : Jun 10, 2022

Report Number: 231864292

- age 1 oP1

Sample Number 22f 133291
Sampled Date Jun 01, 2022
Sample Description Emission From Stationary Source
Location Oil Circulate 3 (3OC91) : HT3 : Condition 1
Date Analysis Commenced Jun 02, 2022
Condition of Sample Extracted into one 8liter paper placed in plastic petri dish and one 109L air sampling bag

Stack Description

Ambient - ressure	7°6	mmHg	Diameter	0.60	m	Oxygen	20.7	%
Ambient Temperature	33.0	FC	Shape	Circle		Carbon Dioxide	0.2	%
Type oP- rocess	- rocess		Stack Temperature	40.0	FC	Gas Velocity	7.1	m/s
Type oP5uel	9		Moisture	2.°1	%	Slow Rate (Actual O2)	1°004	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Total Hydrocarbon as Methane	10:1° AM 9 10:2° AM	ppm	9	1.0	81.2	Total Hydrocarbon Analyzer, Based on US E- A Method 2°A	Bangkok
Total VOCs as - ropane	10:1° AM 9 10:2° AM	ppm	9	1.0	3.3	US E- A, Method 2°A	Bangkok

Sampled By : Anuvat Moungpai

Remark :

- LOD : Limit oPDetection
- "<" : Lower than LOQ (Limit oPQuantitation) / LOR (Limit oPReporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2261336

Date Received : May 23, 2022

Date Reported : May 31, 2022

Report Number: 2318948-1

Page 1 of 1

Sample Number	2261336-1
Sampled Date	May 23, 2022
Sample Description	Emission from Stationary Source
Location	ปล่องระบายไอร่อน HT4 Stack 1 (3SN-3) : Condition 1
Date Analysis Commenced	May 24, 2022
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and one amber plastic bottle

Stack Description

Ambient Pressure	753	mmHg	Diameter	0.7	m	Oxygen	8.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	8.7	%
Type of Process	Combustion (Open System)		Stack Temperature	258	°C	Gas Velocity	2.9	m/s
Type of Fuel	LPG		Moisture	8.72	%	Flow Rate (Actual O2)	2051	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide *	12:33 PM - 12:43 PM	ppm	-	1.0	13.9	-	690 (3)	US EPA, Method 10	Bangkok
Oxides of Nitrogen *	12:25 PM - 12:31 PM	ppm	-	1.06	19.6	60	180	US EPA, Method 7	Bangkok
Total Suspended Particulate	12:20 PM - 01:08 PM	mg/m3	-	0.5	24.4	60	120	US EPA, Method 5	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)

Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

Guideline (3) : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148820

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183177-1

Page 1 of 1

Sample Number	21148820-1
Sampled Date	Jan 14, 2022
Sample Description	Emission from Stationary Source
Location	ปล่องระบายไอร้อน (T4 Stack 2)3SN-46
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Extracted into one 2-L collection flask, one filter paper placed in plastic petri dish and one 10-L air sampling bag

Stack Description

Ambient Pressure	H ₂ O	mm(g	Diameter	0.40	m	5xygen	1°0	G
Ambient Temperature	32.0	FC	Shape	Circle		Carbon Dioxide	3.3	G
Type of Process	Combustion)5 pen System6		Stack Temperature	182	FC	%as Velocity	8.°	m/s
Type of Fuel	LP%		Moisture	Q.08	G	Flow Rate)Actual 5 26	30°8	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide I	12:00 PM - 12:10 PM	ppm	-	1.0	12.1	-	°70)36	US EPA, Method 10	Bangkok
5xides of Nitrogen I	12:10 PM - 12:20 PM	ppm	-	1.0°	H.38	°0	180	US EPA, Method H	Bangkok
Total Suspended Particulate	12:00 PM - 12:48 PM	mg/m3	-	0.0	1.1	°0	120	US EPA, Method O	Bangkok

Guideline : %uideline)16: Environmental Onpact Assessment Report of Magotteaux Co., Ltd.)B.E.20046
%uideline)26: Notification of the Ministry of Science, Technology and Environmental)B.E.20446 : New Source
%uideline)36: Notification of the Ministry of Industry 200°)B.E. 20476 Published in the Royal %overnment %a"ette, Vol.123 Special Part 120 D, dated December 4, 200°)B.E. 20476

Sampled By : Apisit Singha

Remark :

- L5 D : Limit of Detection
- *K* : Lower than L5 <)Limit of <uantitation6 / L5 R)Limit of Reporting6
- Analyte)s6 marked I is/are not included in scope of Accreditation Q5 /EC 1H020.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist)46
ทะเบียนเลขที่ ว-204-จ-4H1H

Approved by

Kanok Korn Anek
zanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-°111

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S:\Reports_Air Stack_2GL.rpt (6:19PM)



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148827

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2183207-1

Page 1 of 1

Sample Number	2114882H1
Sampled Date	Jan 14, 2022
Sample Description	Emission from Stationary Source
Location	(il Circulate 4)3(C-26 : ° T4
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Extracted into one filter paper placed in plastic petri dish and one 10-L air sampling bag

Stack Description

Ambient Pressure	H70	mm° g	Diameter	0.90	m	(xygen	20.9	%
Ambient Temperature	32.0	FC	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	31.0	FC	Oas Gelocity	9.7	m/s
Type of Fuel	-		Moisture	2.42	%	Slow Rate)Actual (26	21029	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	11:30 AM - 12:27 PM	mg/m3	-	0.U	V0.U	40	120	I S EPA, Method U	Bangkok

Guideline : Guideline)16 : Environmental Impact Assessment Report of Magotteaux Co., Ltd.)B.E.2546
Guideline)26 : Notification of the Ministry of Science, Technology and Environment)B.E.2546 : New Source
Guideline)36 : Notification of the Ministry of Industry 2007)B.E. 25496 Published in the Royal Government Gazette, Vol.123 Special Part 12U D, dated December 4, 2007)B.E. 25496

Sampled By : Apisit Singha

Remark :

- L(D : Limit of Detection
- *V* : Lower than L(<)Limit of quantitation / L(R)Limit of Reporting
- Analyte(s) marked K is/are not included in scope of Accreditation (S) / (EC 1H02U.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist)46
ทะเบียนเลขที่ ว-204-จ-4H1H

Approved by

Kanokorn Anek
zanokorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-7111

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S:\Reports_Air Stack_2GL.rpt (6:24PM)



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21148827

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218320692

- page 1 of 1

Sample Number 2114882791
Sampled Date Jan 11, 2022
Sample Description Emission from Stationary Source
Location Oil Circulate 4 (30C92) : HT4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one 100ml paper placed in plastic petri dish and one 100L air sampling bag

Stack Description

Ambient - pressure	160	mmHg	Diameter	0.60	m	Oxygen	20.6	5
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	5
Type of process	- process		Stack Temperature	31.0	°C	Gas Velocity	6.6	m/s
Type of fuel	9		Moisture	2.42	5	Flow Rate (Actual O2)	2102F	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Air Testing							
Total Hydrocarbon as Methane	11:4V AM 9 11:V AM	ppm	9	1.0	12.2	Total Hydrocarbon Analyzer, Based on US E- A Method 2VA	Bangkok
Total GOCs as - ropene	11:4V AM 9 11:V AM	ppm	9	1.0	Q1.0	US E- A, Method 2VA	Bangkok

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- Q < : Lower than LO (Limit of quantitation) / LOR (Limit of Reporting)

Approved by

Saranya C.

Saranya Chalermthamrong
Scientist (4)

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149378

Date Received : Jan 21, 2022

Date Reported : Feb 02, 2022

Report Number: 2184122-1

Page 1 of 1

Sample Number 2114HB(8-1)
Sampled Date Jan 14, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Bag House of Melting (4B) -1° : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	(F0	mm) g	Diameter	1.90	m	Oxygen	20.H	%
Ambient Temperature	32.0	5C	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	3H.H	5C	Gas Velocity	4.(	m/s
Type of Fuel	-		Moisture	2.08	%	Flow Rate Actual O2°	280H0	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	04:33 PM - 09:41 PM	mg/m3	-	0.9	U0.9	40	120	I S EPA, Method 9	Bangkok

Guideline : Guideline 61° : Environmental Impact Assessment Report of Magotteaux Co., Ltd. B.E.2994°
Guideline 62° : Notification of the Ministry of Science, Technology and Environment B.E.2944° : New Source

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- <LO : Lower than LO" Limit of Quantitation° / LOR Limit of Reporting°
- Analytes marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist 64°
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Approved by

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Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-F111

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S:\Reports_Air Stack_2GL.rpt (1:09PM)



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149378

Date Received : Jan 21, 2022
Date Reported : Feb 02, 2022
Report Number: 218412292

- page 1 of 1

Sample Number 2114f 30891
Sampled Date Jan 1f, 2022
Sample Description Emission from Stationary Source
Location 14 Moo 3 Bag (House of Melting) 4B (91H: MCL4
Date Analysis Commenced Jan 28, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient - Pressure	070	mm(g	Diameter	1.F0	m	%Oxygen	20.f	5
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.0	5
Type of Process	- process		Stack Temperature	3f .f	°C	Gas Velocity	4.0	m/s
Type of Fuel	9		Moisture	2.08	5	Flow Rate (Actual %RH	280f 0	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
---------	--------------	------	-----	-----------	--------	--------	------------------

Metals Testing

Chromium	04:F3 - M 90F:41 - M	mg/m3	9	0.10	z 0.10	US E- A, Method 2f	Bangkok
----------	----------------------	-------	---	------	--------	--------------------	---------

Sampled By : Apisit Singha

Remark :

- L%D : Limit of Detection
- "z" : Lower than L%Q (Limit of Quantitation) / L%R (Limit of Reporting)

Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21146978

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218414471

- age 1 oP1

Sample Number 2114f H(871
Sampled Date Jan 20, 2022
Sample Description Emission From Stationary Source
Location ปล่อง Bag) ouse oPSand plant 64B) 72° : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one Filter paper placed in plastic petri dish

Stack Description

Ambient - ressure	(f 0	mm) g	Diameter	0.f 0	m	%xygen	20.H	9
Ambient Temperature	32.0	FC	Shape	Circle		Carbon Dioxide	0.0	9
Type oP- rocess	- rocess		Stack Temperature	40.0	FC	Oas Gelocity	(.0	m/s
Type oP5uel	7		Moisture	2.10	9	Slow Rate 6Actual %2°	ff (4	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended - articulate	10:38 AM 711:2f AM	mg/m3	7	0.U	1.(	40	120	VS E- A, Method U	Bangkok

Guideline : Guideline 61° : Environmental Impact Assessment Report oPMagotteaux Co., Ltd. 6B.E.2UU4°
Guideline 62° : Notification oPthe Ministry oPScience, Tecnology and Environmetal 6B.E.2UU4° : New Source

Sampled By : Apisit Singha

Remark :

- L%D : Limit oPDetection
- "<" : Lower than L%Q & Limit oPQuantitation° / L%R & Limit oPReporting°
- Analyte6° marked * is/are not included in scope oPAccreditation IS%IEC 1(02U.

Technical Management

Saranya Chalerthamrong
Scientist 64°
ทะเบียนเลขที่ 7204774(1(

Approved by

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ 7204774(111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149395

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218414871

- age 1 oP1

Sample Number 2114f 3f H71
Sampled Date Jan 20, 2022
Sample Description Emission From Stationary Source
Location ปล่อง Bag (ouse oPShake7) ut 64B(73° : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one Rlter paper placed in plastic petri dish

Stack Description

Ambient - ressure	F50	mm(g	Diameter	1.38	m	) xygen	20.f	O
Ambient Temperature	32.0	9C	Shape	Circle		Carbon Dioxide	0.0	O
Type oP- rocess	- rocess		Stack Temperature	34.F	9C	Gas Velocity	F.2	m/s
Type oP%uel	7		Moisture	2.0F	O	%ow Rate 6Actual) 2°	35588	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended - articulate	0f :22 AM 710:10 AM	mg/m3	7	0.H	0.F	40	120	US E- A, Method H	Bangkok

Guideline : Guideline 61° : Environmental Impact Assessment Report oPMagotteaux Co., Ltd. 6B.E.2H4°
Guideline 62° : NotiRcation oPthe Ministry oPScience, Tecnology and Environmetal 6B.E.2H4° : New Source

Sampled By : Apisit Singha

Remark :

- L) D : Limit oPDetection
- "<" : Lower than L) Q 6Limit oPQuantitation° / L) R 6Limit oPReporting°
- Analyte6° marked * is/are not included in scope oPAccreditation IS) /IEC 1F02H.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist 64°
ทะเบียนเลขที่ 72047จ74F1F

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149396

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184147-1

Page 1 of 1

Sample Number 2114737H1
Sampled Date Jan 17, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Bag filter of shotblasting (4B) -46 : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into one filter paper placed in plastic petri dish

Stack Description

Ambient Pressure	°H ₂ O	mm) g	Diameter	0.8	m	Oxygen	20.7	%
Ambient Temperature	32.0	FC	Shape	Circle		Carbon Dioxide	0.0	%
Type of Process	Process		Stack Temperature	40.9	FC	Gas Velocity	3.4	m/s
Type of Fuel	-		Moisture	2.11	%	Slow Rate (Actual O ₂)	9912	Nm ³ /hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	03:20 PM - 04:00 PM	mg/m ³	-	0.9	1.3	40	120	US EPA, Method 9	Bangkok

Guideline : Guideline (16: Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.29946
Guideline (26: Notification of the Ministry of Science, Technology and Environment (B.E.29446: New Source

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (46)
ทะเบียนเลขที่ ว-204-จ-401

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149400

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184151-1

Page 1 of 1

Sample Number 21149400-1
Sampled Date Jan 21, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch furnace 1 (4HT-1) : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2-L collection flasks, one 10-L air sampling bag

Stack Description

Ambient Pressure	760	mmHg	Diameter	0.45	m	Oxygen	19.1	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	1.0	%
Type of Process	Combustion (Open System)		Stack Temperature	113	°C	Gas Velocity	5.1	m/s
Type of Fuel	LPG		Moisture	3.42	%	Flow Rate (Actual O2)	2183	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	09:15 AM - 09:25 AM	ppm	-	1.0	7.0	-	690 (3)	US EPA, Method 10	Bangkok
Oxides of Nitrogen	09:03 AM - 09:13 AM	ppm	-	1.06	13.8	60	180	US EPA, Method 7	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source
Guideline (3) : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampled By : Apisit Singha

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149401

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184153-1

Page 1 of 1

Sample Number 21149401-1
Sampled Date Jan 20, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch furnace 2 (4HT-2) : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2-L collection flasks, one 10-L air sampling bag

Stack Description

Ambient Pressure	760	mmHg	Diameter	0.45	m	Oxygen	19.8	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.7	%
Type of Process	Combustion (Open System)		Stack Temperature	126	°C	Gas Velocity	4.9	m/s
Type of Fuel	LPG		Moisture	2.63	%	Flow Rate (Actual O2)	2033	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	02:10 PM - 02:20 PM	ppm	-	1.0	U1.0	-	690 (3)	I S EPA, Method 10	Bangkok
Oxides of Nitrogen	02:05 PM - 02:15 PM	ppm	-	1.06	14.9	60	180	I S EPA, Method 7	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source
Guideline (3) : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampled By : Apisit Singha

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149402

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184150-1

Page 1 of 1

Sample Number 21149402-1
Sampled Date Jan 21, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch furnace 3 (4HT-3) : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2-L collection flasks, one 10-L air sampling bag

Stack Description

Ambient Pressure	570	mmHg	Diameter	0.4G	m	°xygen	18.9	%
Ambient Temperature	32.0	6C	Shape	Circle		Carbon Dioxide	1.2	%
Type of Process	Combustion (°pen System)		Stack Temperature	90.G	6C	Fas Velocity	4.8	m/s
Type of Quel	LPF		Moisture	3.14	%	Qow Rate (Actual ° 2)	2188	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	09:00 AM - 10:00 AM	ppm	-	1.0	28.4	-	790 (3)	US EPA, Method 10	Bangkok
°xides of Nitrogen	09:40 AM - 09:00 AM	ppm	-	1.07	8.7G	70	180	US EPA, Method 5	Bangkok

Guideline : Fuideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2GG4)
Fuideline (2) : Notification of the Ministry of Science, Tecnology and Envrionmetal (B.E.2G44) : New Source
Fuideline (3) : Notification of the Ministry of Industry 2007 (B.E. 2G49) Published in the Royal Foverment Fazette, Vol.123 Special Part 12G D, dated December 4, 2007 (B.E. 2G49)

Sampled By : Apisit Singha

Remark :

- L°D : Limit of Detection
- "<" : Lower than L°Q (Limit of Quantitation) / L°R (Limit of Reporting)

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4515

Approved by

Kanokkorn Anek
Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-7111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149403

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184152-1

Page 1 of 1

Sample Number 21149403-1
Sampled Date Jan 20, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch furnace 4 (4HT-4) : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2-L collection flasks, one 10-L air sampling bag

Stack Description

Ambient Pressure	570	mmHg	Diameter	0.4G	m	°xygen	19.3	%
Ambient Temperature	32.0	6C	Shape	Circle		Carbon Dioxide	0.9	%
Type of Process	Combustion (° pen System)		Stack Temperature	14G	6C	Fas Velocity	7.2	m/s
Type of Quel	LPF		Moisture	3.43	%	Qow Rate (Actual ° 2)	2441	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	02:4G PM - 02:GG PM	ppm	-	1.0	23.0	-	790 (3)	US EPA, Method 10	Bangkok
°xides of Nitrogen	02:40 PM - 02:G0 PM	ppm	-	1.07	4.10	70	180	US EPA, Method 5	Bangkok

Guideline : Fuideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2GG4)
Fuideline (2) : Notification of the Ministry of Science, Tecnology and Envrionmetal (B.E.2G44) : New Source
Fuideline (3) : Notification of the Ministry of Industry 2007 (B.E. 2G49) Published in the Royal Foverment Fazette, Vol.123 Special Part 12G D, dated December 4, 2007 (B.E. 2G49)

Sampled By : Apisit Singha

Remark :

- L°D : Limit of Detection
- "<" : Lower than L°Q (Limit of Quantitation) / L°R (Limit of Reporting)

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4515

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-7111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149404

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184151-1

Page 1 of 1

Sample Number 21145404-1
Sampled Date Jan 21, 2022
Sample Description Emission from Stationary Source
Location ปล่อง 9 eat Treatment Batch furnace H (49T-H) : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2-L collection flasks, one 10-L air sampling bag

Stack Description

Ambient Pressure	760	mmHg	Diameter	0.4H	m	Oxygen	15.1	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	1.1	%
Type of Process	Combustion (Open System)		Stack Temperature	110	°C	Gas Velocity	H4	m/s
Type of Fuel	LPG		Moisture	3.6H	%	Flow Rate (Actual O2)	2312	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	10:2HAM - 10:3HAM	ppm	-	1.0	1.5	-	650 (3)	US EPA, Method 10	Bangkok
Oxides of Nitrogen	10:1HAM - 10:2HAM	ppm	-	1.06	8.44	60	180	US EPA, Method 7	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2544)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source
Guideline (3) : Notification of the Ministry of Industry 2006 (B.E. 2545) Published in the Royal Government Gazette, Vol.123 Special Part 12H D, dated December 4, 2006 (B.E. 2545)

Sampled By : Apisit Singha

Remark :

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

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist (4)
ทะเบียนเลขที่ ว-204-จ-4717

Approved by

Kanok Korn Anek
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Senior Manager
ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149405

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 2184154-1

Page 1 of 1

Sample Number 21145409-1
Sampled Date Jan 20, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch furnace ()4HT-(7: MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2-L collection flasks, one 10-L air sampling bag

Stack Description

Ambient Pressure	6(0	mmHg	Diameter	0.49	m	Oxygen	16.(%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	1.5	%
Type of Process	Combustion)Open System7		Stack Temperature	120	°C	Gas Velocity	9.4	m/s
Type of Fuel	LPG		Moisture	3.26	%	Flow Rate)Actual Q27	228(	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	03:19 PM - 03:29 PM	ppm	-	1.0	U1.0	-	(50)37	I S EPA, Method 10	Bangkok
Oxides of Nitrogen	03:20 PM - 03:30 PM	ppm	-	1.0(	23.9	(0	180	I S EPA, Method 6	Bangkok

Guideline : Guideline)17: Environmental Impact Assessment Report of Magotteaux Co., Ltd.)B.E.29947
Guideline)27: Notification of the Ministry of Science, Technology and Environment)B.E.29447: New Source
Guideline)37: Notification of the Ministry of Industry 200()B.E. 29457 Published in the Royal Government Gazette, Vol.123 Special Part 129 D, dated December 4, 200()B.E. 29457

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- <LO : Lower than LO")Limit of " quantitation7 / LOR)Limit of Reporting7

Technical Management

Saranya C.
Saranya Chalermthamrong
Scientist)47
ทะเบียนเลขที่ ว-204-จ-4616

Approved by

Kanok Korn Anek
Kanok Korn Anek
Senior Manager
ทะเบียนเลขที่ ว-204-ค-(111

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3595-31/ EMAIL

S:\Reports_Air Stack_2GL.rpt (7:04PM)



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149406

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218415- P1

Page 1 of 91

Sample Number 2114540- P1
Sampled Date Jan 21, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch Furnace () 4HTR 7: MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2FL collection flasks, one 10FL air sampling bag

Stack Description

Ambient Pressure	(- 0	mmHg	Diameter	0.4G	m	Oxygen	15.1	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	1.1	%
Type of Process	Combustion	Open System	Stack Temperature	118	°C	Flow Velocity	4.6	m/s
Type of Fuel	Lf F		Moisture	2.85	%	Flow Rate (Actual)	150G	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	10:00 AM P11:00 AM	ppm	P	1.0	3.4	P	- 50)37	US EPA, Method 10	Bangkok
Oxides of Nitrogen	10:00 AM P11:00 AM	ppm	P	1.0	13.1	- 0	180	US EPA, Method (	Bangkok

Guideline : Guideline 17: Environmental Impact Assessment Report of Magotteaux Co., Ltd.)B.E.2547
Guideline 27: Notification of the Ministry of Science, Technology and Environment)B.E.2547: New Source
Guideline 37: Notification of the Ministry of Industry 200-)B.E. 2547 published in the Royal Government Gazette, Vol.123 Special Part 12G D, dated December 4, 200-)B.E. 2547

Sampled By : Apisit Singha

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOD Limit of Quantitation / LOD Limit of Reporting

Technical Management

Saranya Chalerthamrong
Scientist 47
ทะเบียนเลขที่ วป204ป4 (1)

Approved by

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ วป204ป4 111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149407

Date Received : Jan 21, 2022

Date Reported : Jan 28, 2022

Report Number: 218415- P1

Page 1 of 91

Sample Number 2114540- P1
Sampled Date Jan 20, 2022
Sample Description Emission from Stationary Source
Location ปล่อง Heat Treatment Batch Furnace 8 (4HTP8) : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Extracted into two 2FL collection flasks, one 10FL air sampling bag

Stack Description

Ambient Pressure	- 70	mmHg	Diameter	0.4G	m	Oxygen	15.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	0.8	%
Type of Process	Combustion (Open System)		Stack Temperature	133	°C	Gas Velocity	6.7	m/s
Type of Fuel	Lf F		Moisture	3.42	%	Flow Rate (Actual ° 2)	22G2	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Carbon Monoxide	04:10 f M P04:20 f M	ppm	P	1.0	2.1	P	750 (3)	US EPA, Method 10	Bangkok
Oxides of Nitrogen	04:00 f M P04:10 f M	ppm	P	1.07	1G.-	70	180	US EPA, Method -	Bangkok

Guideline : Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2554)
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2554) : New Source
Guideline (3) : Notification of the Ministry of Industry 2007 (B.E. 2551) published in the Royal Government Gazette, Vol.123 Special Part 12G D, dated December 4, 2007 (B.E. 2551)

Sampled By : Apisit Singha

Remark :

- L^o D : Limit of Detection
- "<" : Lower than L^o Q (Limit of Quantitation) / L^o R (Limit of Reporting)

Technical Management

Saranya Chalerthamrong
Scientist (4)
ทะเบียนเลขที่ วป204ป4- 1-

Approved by

Kanokkorn Anek
Senior Manager
ทะเบียนเลขที่ วป204ป7111

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ภาคผนวก ค-3

คุณภาพน้ำ



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21145994

Date Received : Jan 11, 2022

Date Reported : Jan 18, 2022

Report Number : 2208558-1

Page 1 of 1

Sample Number	21145994-1
Sampled Date	Jan 11, 2022 10:00 AM
Sample Description	Wastewater
Location	คูน้ำรอบพื้นที่โครงการ (MCL1+2)
Date Analysis Commenced	Jan 12, 2022
Condition of Sample	Contained in three plastic bottles and one amber glass 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	2	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	27	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.5	Based on APHA (2017), 4500-H (B)	Bangkok
Temperature *	Degree C	-	-	30.7	Based on APHA (2017), 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	Based on APHA (2017), 2540 D	Bangkok

Sampled By : Jiranat Khowlaor

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21146006

Date Received : Jan 11, 2022

Date Reported : Jan 18, 2022

Report Number : 2208583-1

Page 1 of 1

Sample Number	21146006-1
Sampled Date	Jan 11, 2022 9:57 AM
Sample Description	Wastewater
Location	คูน้ำรอบพื้นที่โครงการ (MCL4)
Date Analysis Commenced	Jan 12, 2022
Condition of Sample	Contained in three plastic bottles and one amber glass 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	2	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	23	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.6	Based on APHA (2017), 4500-H (B)	Bangkok
Temperature *	Degree C	-	-	30.3	Based on APHA (2017), 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	Based on APHA (2017), 2540 D	Bangkok

Sampled By : Jiranat Khowlaor

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Puengpang

Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

TESTING
No.0009

Lot ID: 21145994

Date Received : Jan 11, 2022

Date Reported : Jan 18, 2022

Report Number : 2208559-1

Page 1 of 1

Sample Number	21145994-2
Sampled Date	Jan 11, 2022 8:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้ง (MCL1+2)
Date Analysis Commenced	Jan 12, 2022
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	5	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	65	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	7.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Temperature *	Degree C	-	-	29.9	≤40	Based on APHA (2017), 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	12	≤50	Based on APHA (2017), 2540 D	Bangkok

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).

Sampled By : Jiranat Khowlaor

Remark :

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

Siriluk P.

Siriluk Puengpang
Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

TESTING
No.0009

Lot ID: 21146006

Date Received : Jan 11, 2022

Date Reported : Jan 18, 2022

Report Number : 2208584-1

Page 1 of 1

Sample Number	21146006-2
Sampled Date	Jan 11, 2022 9:40 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้ง (MCL4)
Date Analysis Commenced	Jan 12, 2022
Condition of Sample	Contained in three plastic bottles and one amber glass bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2	2	≤20	Based on APHA (2017), 5210 B	Bangkok
COD	mg/L	1.5	5	18	≤120	Based on APHA (2017), 5220 D	Bangkok
Oil & Grease	mg/L	-	3	<3	≤5	Based on APHA (2017), 5520 B	Bangkok
pH at 25 degree C		-	-	6.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Bangkok
Temperature *	Degree C	-	-	29.8	≤40	Based on APHA (2017), 2550 B	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	9	≤50	Based on APHA (2017), 2540 D	Bangkok

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).

Sampled By : Jiranat Khowlaor

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Siriluk P.

Siriluk Puengpang
Supervisor

ทะเบียนเลขที่ ว-204-จ-4720

Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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ภาคผนวก ค-4

ระดับเสียงโดยทั่วไป



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250402

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314212-1

Page 1 of 1

Sample Number 2250402-1
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกโครงการ MCI 1-2 (GPS 47P 0700052, 1593539)
Measurement Date May 03 - May 04, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.5	77.3	58.5
11:00 AM - 12:00 PM	60.7	77.9	58.6
12:00 PM - 01:00 PM	61.9	86.0	58.9
01:00 PM - 02:00 PM	60.9	76.9	58.8
02:00 PM - 03:00 PM	61.0	74.0	58.9
03:00 PM - 04:00 PM	60.5	71.0	58.7
04:00 PM - 05:00 PM	60.1	78.0	58.4
05:00 PM - 06:00 PM	61.1	75.7	58.9
06:00 PM - 07:00 PM	59.6	70.5	58.3
07:00 PM - 08:00 PM	58.2	73.4	56.4
08:00 PM - 09:00 PM	59.1	82.2	56.6
09:00 PM - 10:00 PM	57.9	74.8	56.5
10:00 PM - 11:00 PM	58.3	76.2	56.9
11:00 PM - 12:00 AM	58.2	74.7	56.6
12:00 AM - 01:00 AM	58.7	74.8	57.2
01:00 AM - 02:00 AM	59.7	78.2	57.8
02:00 AM - 03:00 AM	59.5	75.5	57.6
03:00 AM - 04:00 AM	60.7	78.4	57.9
04:00 AM - 05:00 AM	61.7	78.3	58.0
05:00 AM - 06:00 AM	61.1	80.6	58.0
06:00 AM - 07:00 AM	61.4	86.9	57.9
07:00 AM - 08:00 AM	59.9	73.5	58.6
08:00 AM - 09:00 AM	59.0	74.2	57.7
09:00 AM - 10:00 AM	59.0	74.5	57.7

Leq Average 24 hrs. (dB(A)) 60.1
Lmax (dB(A)) 86.9
L90 (dB(A)) 57.9
Ldn (dB(A)) 66.5
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250402

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314213-1

Page 1 of 1

Sample Number 2250402-2
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกโครงการ MCI 1-2 (GPS 47P 0700052, 1593539)
Measurement Date May 04 - May 05, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.9	74.1	57.5
11:00 AM - 12:00 PM	58.5	74.0	57.1
12:00 PM - 01:00 PM	58.5	73.9	56.9
01:00 PM - 02:00 PM	58.2	72.9	56.8
02:00 PM - 03:00 PM	58.9	74.8	57.1
03:00 PM - 04:00 PM	59.7	76.4	57.0
04:00 PM - 05:00 PM	59.4	80.5	57.1
05:00 PM - 06:00 PM	58.0	70.8	56.9
06:00 PM - 07:00 PM	58.3	73.8	56.7
07:00 PM - 08:00 PM	58.1	73.5	57.0
08:00 PM - 09:00 PM	57.9	72.3	56.9
09:00 PM - 10:00 PM	58.3	72.1	57.0
10:00 PM - 11:00 PM	58.7	73.3	57.3
11:00 PM - 12:00 AM	57.6	70.0	56.3
12:00 AM - 01:00 AM	58.1	72.4	56.8
01:00 AM - 02:00 AM	58.1	73.1	56.6
02:00 AM - 03:00 AM	60.1	76.5	57.6
03:00 AM - 04:00 AM	63.2	83.7	58.4
04:00 AM - 05:00 AM	59.2	72.1	57.3
05:00 AM - 06:00 AM	59.6	77.8	57.4
06:00 AM - 07:00 AM	61.4	82.6	57.8
07:00 AM - 08:00 AM	63.0	85.9	58.4
08:00 AM - 09:00 AM	62.3	87.5	58.3
09:00 AM - 10:00 AM	60.3	77.9	58.0

Leq Average 24 hrs. (dB(A)) 59.7
Lmax (dB(A)) 87.5
L90 (dB(A)) 57.1
Ldn (dB(A)) 66.3
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management


Sararat Mongkonjirawut
Supervisor

Approved by


Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250402

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314214-1

Page 1 of 1

Sample Number 2250402-3
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกโครงการ MCI 1-2 (GPS 47P 0700052, 1593539)
Measurement Date May 05 - May 06, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.4	82.9	58.1
11:00 AM - 12:00 PM	60.3	77.2	57.7
12:00 PM - 01:00 PM	59.9	81.1	57.7
01:00 PM - 02:00 PM	60.3	79.2	57.7
02:00 PM - 03:00 PM	59.7	79.4	56.7
03:00 PM - 04:00 PM	59.5	83.4	56.4
04:00 PM - 05:00 PM	60.2	76.7	57.2
05:00 PM - 06:00 PM	61.2	93.0	57.8
06:00 PM - 07:00 PM	60.8	89.8	57.8
07:00 PM - 08:00 PM	59.8	77.0	57.4
08:00 PM - 09:00 PM	59.9	73.5	57.9
09:00 PM - 10:00 PM	59.2	72.3	57.6
10:00 PM - 11:00 PM	60.0	71.0	58.7
11:00 PM - 12:00 AM	60.5	73.7	59.6
12:00 AM - 01:00 AM	60.3	72.4	59.3
01:00 AM - 02:00 AM	59.8	69.2	58.4
02:00 AM - 03:00 AM	59.3	78.1	57.5
03:00 AM - 04:00 AM	58.5	73.6	57.2
04:00 AM - 05:00 AM	58.8	77.0	57.6
05:00 AM - 06:00 AM	58.8	70.0	57.8
06:00 AM - 07:00 AM	59.1	69.8	57.8
07:00 AM - 08:00 AM	58.9	74.3	57.6
08:00 AM - 09:00 AM	60.8	76.0	57.9
09:00 AM - 10:00 AM	60.2	79.1	57.7

Leq Average 24 hrs. (dB(A)) 59.9
Lmax (dB(A)) 93.0
L90 (dB(A)) 57.7
Ldn (dB(A)) 66.0
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management


Sararat Mongkonjirawut
Supervisor

Approved by


Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250402

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 231421-PI

f age 1 o51

Sample Number 22- 0402P4
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันออกเฉียงใต้โครงการ MCL 1P2 (Gf S 47f 0700382, 1- 93268)
Measurement Date May 03 P May 04, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 672737

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM P 11:00 AM	67.7	92.2	60.8
11:00 AM P 12:00 f M	66.8	97.2	61.1
12:00 f M P 01:00 f M	62.7	8-.3	61.0
01:00 f M P 02:00 f M	62.1	71.-	60.9
02:00 f M P 03:00 f M	62.8	81.6	61.4
03:00 f M P 04:00 f M	62.6	79.4	61.-
04:00 f M P 0- :00 f M	6-.6	84.8	61.3
0- :00 f M P 06:00 f M	61.8	79.0	60.4
06:00 f M P 07:00 f M	61.6	72.8	-9.3
07:00 f M P 08:00 f M	63.1	96.3	61.1
08:00 f M P 09:00 f M	61.4	69.-	60.-
09:00 f M P 10:00 f M	61.-	7-.1	60.-
10:00 f M P 11:00 f M	61.0	68.1	60.1
11:00 f M P 12:00 AM	61.1	72.2	60.0
12:00 AM P 01:00 AM	60.9	71.-	-9.9
01:00 AM P 02:00 AM	60.8	76.8	-8.-
02:00 AM P 03:00 AM	61.0	73.1	60.0
03:00 AM P 04:00 AM	60.7	73.1	-9.4
04:00 AM P 0- :00 AM	60.4	71.-	-9.6
0- :00 AM P 06:00 AM	60.-	71.1	-9.-
06:00 AM P 07:00 AM	61.7	73.6	-9.7
07:00 AM P 08:00 AM	61.7	91.-	-9.6
08:00 AM P 09:00 AM	61.1	73.9	-9.9
09:00 AM P 10:00 AM	62.-	84.4	61.0

Leq Average 24 hrs. (dB(A)) 62.7
Lmax (dB(A)) 97.2
L90 (dB(A)) 60.1
Ldn (dB(A)) 67.8
Standard (dB(A)) 70 11-

ReSeRence Method : ISO1996P1 and 1996P2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 1- (พ.ศ. 2-40) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2-48

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250402

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314216-1

Page 1 of 1

Sample Number 2250402-5
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันออกเฉียงใต้โครงการ MCL 1-2 (GPS 47P 0700382, 1593268)
Measurement Date May 04 - May 05, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 672737

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	69.4	92.3	61.6
11:00 AM - 12:00 PM	69.0	94.3	63.2
12:00 PM - 01:00 PM	63.3	77.5	55.7
01:00 PM - 02:00 PM	63.0	82.1	61.3
02:00 PM - 03:00 PM	65.2	84.3	61.2
03:00 PM - 04:00 PM	68.8	92.4	60.8
04:00 PM - 05:00 PM	62.4	77.1	59.0
05:00 PM - 06:00 PM	62.7	82.0	61.1
06:00 PM - 07:00 PM	61.2	81.7	54.9
07:00 PM - 08:00 PM	63.2	74.5	61.9
08:00 PM - 09:00 PM	61.8	79.0	60.7
09:00 PM - 10:00 PM	61.8	73.1	60.8
10:00 PM - 11:00 PM	62.0	73.8	61.3
11:00 PM - 12:00 AM	62.0	67.2	61.4
12:00 AM - 01:00 AM	61.6	72.5	61.0
01:00 AM - 02:00 AM	60.5	72.3	55.7
02:00 AM - 03:00 AM	60.9	73.0	60.3
03:00 AM - 04:00 AM	61.1	71.5	60.1
04:00 AM - 05:00 AM	60.8	66.4	59.8
05:00 AM - 06:00 AM	61.7	87.2	59.8
06:00 AM - 07:00 AM	64.2	79.8	57.6
07:00 AM - 08:00 AM	60.5	94.8	54.0
08:00 AM - 09:00 AM	58.1	90.0	51.2
09:00 AM - 10:00 AM	64.8	74.4	57.8

Leq Average 24 hrs. (dB(A)) 64.0
Lmax (dB(A)) 94.8
L90 (dB(A)) 60.3
Ldn (dB(A)) 68.8
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250402

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 231421-PI

Page 1 of 51

Sample Number 22(0402P6
Parameter Noise d.e) 24 hrs.G
Location ริมรั้วด้านทิศตะวันออกเฉียงใต้โครงการ MCL 1P2 q7f S 4-f 0- 00382, 1(93268G
Measurement Date May 0(P May 06, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 6- 2- 3-

Time	Le) d(BqAG	Lmax d(BqAG	L90 d(BqAG
10:00 AM P 11:00 AM	66.9	80.8	(6.-
11:00 AM P 12:00 f M	64.2	91.1	(- .1
12:00 f M P 01:00 f M	64.0	86.1	((.9
01:00 f M P 02:00 f M	(9.3	- 9.(	( 0.4
02:00 f M P 03:00 f M	(8.-	- (.0	((.6
03:00 f M P 04:00 f M	(9.1	- ( .(	( 4.6
04:00 f M P 0(:00 f M	(6.9	- 2.8	(3.9
0(:00 f M P 06:00 f M	(6.6	- 2.0	(4.1
06:00 f M P 0- :00 f M	((.4	69.4	(1.3
0- :00 f M P 08:00 f M	(8.4	- 2.0	((.3
08:00 f M P 09:00 f M	(8.0	69.2	(3.(
09:00 f M P 10:00 f M	(6.6	- (.-	(3.0
10:00 f M P 11:00 f M	(8.9	81.(	( - .0
11:00 f M P 12:00 AM	60.3	- 0.-	(- .0
12:00 AM P 01:00 AM	61.6	- 0.(	( 8.2
01:00 AM P 02:00 AM	60.9	- 4.4	(4.2
02:00 AM P 03:00 AM	62.1	69.8	(8.8
03:00 AM P 04:00 AM	62.-	- 4.4	62.1
04:00 AM P 0(:00 AM	62.1	6- .9	61.(
0(:00 AM P 06:00 AM	62.6	- 2.3	62.1
06:00 AM P 0- :00 AM	63.3	- 1.6	(9.6
0- :00 AM P 08:00 AM	63.-	93.-	(8.1
08:00 AM P 09:00 AM	(9.8	93.8	(1.6
09:00 AM P 10:00 AM	60.4	93.8	(1.4

Le) Average 24 hrs. d(BqAG

61.4

Lmax d(BqAG

93.8

L90 d(BqAG

((.6

Ldn d(BqAG

68.1

Standard d(BqAG

- 0

11(

Reference Method : ISO1996P1 and 1996P2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 1(พ.ศ. 2(40Gเรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2(48

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2250444

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314220-1

Page 1 of 1

Sample Number 2250444-1
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกโครงการ VRM : MCL4 (GPS 47P 0699917, 1593242)
Measurement Date May 03 - May 04, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.0	71.5	54.9
11:00 AM - 12:00 PM	60.4	71.3	52.7
12:00 PM - 01:00 PM	58.4	70.2	51.6
01:00 PM - 02:00 PM	58.3	80.1	50.9
02:00 PM - 03:00 PM	58.9	69.9	56.0
03:00 PM - 04:00 PM	57.3	74.1	54.0
04:00 PM - 05:00 PM	57.8	86.1	53.8
05:00 PM - 06:00 PM	57.1	81.4	53.6
06:00 PM - 07:00 PM	57.3	72.6	53.4
07:00 PM - 08:00 PM	59.2	74.2	54.8
08:00 PM - 09:00 PM	62.4	68.8	56.6
09:00 PM - 10:00 PM	64.9	72.0	61.3
10:00 PM - 11:00 PM	60.5	67.3	58.1
11:00 PM - 12:00 AM	58.6	65.2	56.0
12:00 AM - 01:00 AM	58.1	64.5	56.3
01:00 AM - 02:00 AM	59.5	64.7	57.6
02:00 AM - 03:00 AM	59.2	70.2	57.4
03:00 AM - 04:00 AM	58.0	75.6	56.2
04:00 AM - 05:00 AM	58.4	64.9	56.4
05:00 AM - 06:00 AM	60.9	71.5	55.6
06:00 AM - 07:00 AM	64.1	73.5	56.1
07:00 AM - 08:00 AM	57.5	71.4	53.9
08:00 AM - 09:00 AM	66.2	72.8	53.9
09:00 AM - 10:00 AM	65.9	72.7	55.6

Leq Average 24 hrs. (dB(A)) 60.9
Lmax (dB(A)) 86.1
L90 (dB(A)) 55.6
Ldn (dB(A)) 66.8
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. มาตรฐาน สปรบมปลั่งอวดหุ้มอตงขานี้ มี 5 (.ศ. 2540) เรืองปาดนดมาจรรฐานรลลี้ เลมมโดยทัวไณ
2. มาตรฐานสปรบมปลั่งอวดหุ้มอตงขานี้ มี 5 (.ศ. 2548) เรืองปาดนดมาจรรฐานรลลี้ เลมมโดยทัวไณ

Technical Management


Sararat Mongkonjirawut
Supervisor

Approved by


Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2250444

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314221-1

Page 1 of 1

Sample Number 2250444-2
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกโครงการ VRM : MCL4 (GPS 47P 0699917, 1593242)
Measurement Date May 04 - May 05, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.8	80.6	53.3
11:00 AM - 12:00 PM	67.9	77.6	55.9
12:00 PM - 01:00 PM	66.0	76.9	54.3
01:00 PM - 02:00 PM	55.3	69.4	52.6
02:00 PM - 03:00 PM	57.5	68.5	54.0
03:00 PM - 04:00 PM	67.4	71.6	64.8
04:00 PM - 05:00 PM	56.0	65.7	50.2
05:00 PM - 06:00 PM	65.4	71.6	55.9
06:00 PM - 07:00 PM	64.3	71.6	55.5
07:00 PM - 08:00 PM	64.0	72.3	55.5
08:00 PM - 09:00 PM	57.7	82.5	55.2
09:00 PM - 10:00 PM	61.1	68.9	53.4
10:00 PM - 11:00 PM	61.7	71.2	56.0
11:00 PM - 12:00 AM	56.0	67.6	53.1
12:00 AM - 01:00 AM	57.4	64.1	55.0
01:00 AM - 02:00 AM	57.2	68.4	55.0
02:00 AM - 03:00 AM	57.4	69.9	55.0
03:00 AM - 04:00 AM	70.4	77.7	56.2
04:00 AM - 05:00 AM	72.4	79.1	58.4
05:00 AM - 06:00 AM	60.2	65.9	58.8
06:00 AM - 07:00 AM	60.1	64.0	58.8
07:00 AM - 08:00 AM	59.7	73.2	57.8
08:00 AM - 09:00 AM	59.3	66.4	57.3
09:00 AM - 10:00 AM	59.7	63.7	58.2

Leq Average 24 hrs. (dB(A)) 64.3
Lmax (dB(A)) 82.5
L90 (dB(A)) 55.5
Ldn (dB(A)) 71.9
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. มาตรฐาน สปรบมปลั่งอวดหุ้มอตงขานี้ มี 5 (.ศ. 2540) เรืองปาดนดมาจรรฐานรลลี้ เลมมโดยทัวไณ
2. มาตรฐานสปรบมปลั่งอวดหุ้มอตงขานี้ มี 5 (.ศ. 2548) เรืองปาดนดมาจรรฐานรลลี้ เลมมโดยทัวไณ

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250444

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314222-1

Page 1 of 1

Sample Number 2250444-3
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันตกโครงการ VRM : MCL4 (GPS 47P 0699917, 1593242)
Measurement Date May 05 - May 06, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572457

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	59.8	64.4	57.6
11:00 AM - 12:00 PM	57.8	63.8	55.6
12:00 PM - 01:00 PM	57.3	67.3	55.4
01:00 PM - 02:00 PM	57.5	70.0	55.4
02:00 PM - 03:00 PM	58.0	67.3	56.3
03:00 PM - 04:00 PM	57.8	64.2	56.2
04:00 PM - 05:00 PM	58.2	74.1	55.7
05:00 PM - 06:00 PM	57.3	68.4	55.6
06:00 PM - 07:00 PM	57.5	63.0	55.7
07:00 PM - 08:00 PM	60.0	70.9	57.1
08:00 PM - 09:00 PM	57.4	62.7	56.6
09:00 PM - 10:00 PM	58.2	67.4	57.2
10:00 PM - 11:00 PM	58.0	68.7	55.8
11:00 PM - 12:00 AM	57.4	64.5	55.8
12:00 AM - 01:00 AM	56.7	67.6	55.2
01:00 AM - 02:00 AM	56.1	63.3	54.7
02:00 AM - 03:00 AM	70.6	75.0	55.1
03:00 AM - 04:00 AM	58.0	79.0	55.0
04:00 AM - 05:00 AM	56.1	74.1	54.9
05:00 AM - 06:00 AM	55.7	76.7	54.2
06:00 AM - 07:00 AM	53.5	70.4	52.0
07:00 AM - 08:00 AM	53.9	72.7	52.2
08:00 AM - 09:00 AM	63.8	74.1	53.3
09:00 AM - 10:00 AM	71.6	76.7	56.9

Leq Average 24 hrs. (dB(A)) 62.2
Lmax (dB(A)) 79.0
L90 (dB(A)) 55.6
Ldn (dB(A)) 68.7
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. มาตรฐาน สปรบมปารสิ่งแวดล้อมต่งชาติ ปี ๒๕๕๕ (พ.ศ. 2540) เรืองปาดนตมมาตรฐานรลลล เลมมดอยทัวไล
2. มาตรฐานสปรบมปารสิ่งแวดล้อมต่งชาติ เรืองปาดนตมรลลล เลมมปารร ปาน อหสสลล เลมมทพดจาปารลลลลลล กิจปาร
โรงงาน" .ศ. 2548

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250444

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 2314223-1

Page 1 of 1

Sample Number 2250444-4
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันออก รร VRM : MCL4 (GPS 47P 0699843, 1593041)
Measurement Date May 03 - May 04, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. 584983

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.2	76.3	59.5
11:00 AM - 12:00 PM	61.0	82.6	59.8
12:00 PM - 01:00 PM	60.3	71.7	59.4
01:00 PM - 02:00 PM	60.5	69.6	59.3
02:00 PM - 03:00 PM	61.7	68.7	59.8
03:00 PM - 04:00 PM	61.5	76.5	59.7
04:00 PM - 05:00 PM	61.7	75.2	59.9
05:00 PM - 06:00 PM	61.8	71.4	61.0
06:00 PM - 07:00 PM	62.6	81.5	61.5
07:00 PM - 08:00 PM	62.0	70.1	61.5
08:00 PM - 09:00 PM	62.3	75.8	61.7
09:00 PM - 10:00 PM	62.5	80.3	61.6
10:00 PM - 11:00 PM	62.2	77.8	61.4
11:00 PM - 12:00 AM	62.1	67.8	61.3
12:00 AM - 01:00 AM	62.2	68.2	61.4
01:00 AM - 02:00 AM	62.8	78.3	61.8
02:00 AM - 03:00 AM	62.3	69.6	61.6
03:00 AM - 04:00 AM	62.6	68.1	61.3
04:00 AM - 05:00 AM	61.4	71.4	60.9
05:00 AM - 06:00 AM	61.6	71.2	61.0
06:00 AM - 07:00 AM	62.9	74.0	61.1
07:00 AM - 08:00 AM	62.2	72.5	61.6
08:00 AM - 09:00 AM	61.4	74.1	60.3
09:00 AM - 10:00 AM	61.5	73.6	59.9

Leq Average 24 hrs. (dB(A)) 61.9
Lmax (dB(A)) 82.6
L90 (dB(A)) 61.0
Ldn (dB(A)) 68.6
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ยรจ าศกใจ รมร ารจควดปกคณคณลาคี หั ทป5 (บ.ศ. 2540) เรตคีนาสนดมาะร านรงค้ ไลจลคดฐทัวโย
2. ยรจ าศี รงทรวลค าสี รมเรตคีนาสนดครงค้ ไลจลค ารร วน คปงรงค้ ไลจลค ารยรจ ฝคีจ าร
อรจณน บ.ศ. 2548

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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P/O :
Project Name : Environmental Tesing
Project Location :

Date Received : May 06, 2022
Date Reported : May 14, 2022
Report Number: 2314224-1

Page 1 of 1

Sample Number	2250444-5
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณด้านทิศตะวันออก ณ ไร่ VRM : MCL4 (GPS 47P 0699843, 1593041)
Measurement Date	May 04 - May 05, 2022
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 584983

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	66.1	78.1	61.1
11:00 AM - 12:00 PM	66.2	73.6	61.2
12:00 PM - 01:00 PM	61.8	70.3	60.7
01:00 PM - 02:00 PM	64.6	72.7	61.1
02:00 PM - 03:00 PM	64.7	75.8	61.9
03:00 PM - 04:00 PM	62.5	72.7	61.2
04:00 PM - 05:00 PM	61.8	75.8	60.8
05:00 PM - 06:00 PM	62.0	77.8	61.1
06:00 PM - 07:00 PM	62.2	78.5	61.3
07:00 PM - 08:00 PM	66.7	79.1	61.5
08:00 PM - 09:00 PM	61.7	69.8	61.3
09:00 PM - 10:00 PM	62.5	69.2	61.9
10:00 PM - 11:00 PM	62.4	69.4	61.8
11:00 PM - 12:00 AM	62.5	71.5	61.8
12:00 AM - 01:00 AM	62.9	68.6	62.1
01:00 AM - 02:00 AM	62.1	70.9	61.3
02:00 AM - 03:00 AM	62.5	69.4	61.5
03:00 AM - 04:00 AM	62.6	69.9	62.1
04:00 AM - 05:00 AM	62.8	71.2	62.2
05:00 AM - 06:00 AM	62.4	70.9	61.8
06:00 AM - 07:00 AM	68.2	77.1	62.0
07:00 AM - 08:00 AM	63.1	84.0	61.9
08:00 AM - 09:00 AM	62.4	75.3	61.6
09:00 AM - 10:00 AM	70.2	77.3	62.5

Leq Average 24 hrs. (dB(A))	64.3		
Lmax (dB(A))		84.0	
L90 (dB(A))			61.5
Ldn (dB(A))	70.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ยंत्री าคกัใจ รมณ์ ารโวดคปถมคณลฉะ ทั ทั๓5 (บ.ศ. 2540) เรตณ์ าสนดมาะร ารงด ์ โฏจลลทัวไย
2. ยंत्री าศี ทรทรวลฉะ โสลี รม เรตณ์ าสนดกพรงด ์ โฏจลล ารร ์ วณ คปรงด ์ โฏจลล ัคจ ์ ารยรย ณ์ ์ จี าร
อรจณ บ.ศ. 2548

Technical Management

Sept

Sararat Mongkonjirawut
Supervisor

Approved by

Snapt S.

Supot Salamteh
Section Head

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Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250444

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 231422-P1

Page 1 of 51

Sample Number 22- 0444P6
Parameter Noise (Leq 24 hrs.)
Location ริมรั้วด้านทิศตะวันออก ไร่ VRM : MCL4 (Gf S 47f 0699843, 1-93041)
Measurement Date May 0- P May 06, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. -84983

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM P 11:00 AM	62.7	81.6	61.6
11:00 AM P 12:00 f M	72.3	78.7	63.2
12:00 f M P 01:00 f M	63.1	76.3	62.1
01:00 f M P 02:00 f M	69.-	78.-	61.7
02:00 f M P 03:00 f M	66.7	7-.8	61.6
03:00 f M P 04:00 f M	66.-	77.3	62.0
04:00 f M P 0- :00 f M	62.4	78.7	61.4
0- :00 f M P 06:00 f M	6-.7	77.8	61.6
06:00 f M P 07:00 f M	66.8	71.9	6-.0
07:00 f M P 08:00 f M	71.8	78.-	66.6
08:00 f M P 09:00 f M	67.6	8-.7	66.2
09:00 f M P 10:00 f M	6-.0	74.8	61.8
10:00 f M P 11:00 f M	66.7	71.7	62.0
11:00 f M P 12:00 AM	63.0	76.8	62.1
12:00 AM P 01:00 AM	62.8	70.9	62.2
01:00 AM P 02:00 AM	62.9	73.1	62.2
02:00 AM P 03:00 AM	62.7	76.3	62.0
03:00 AM P 04:00 AM	62.6	73.4	62.1
04:00 AM P 0- :00 AM	62.7	72.0	62.1
0- :00 AM P 06:00 AM	62.4	72.4	61.9
06:00 AM P 07:00 AM	73.8	81.1	62.2
07:00 AM P 08:00 AM	62.8	70.-	62.2
08:00 AM P 09:00 AM	62.1	70.7	61.4
09:00 AM P 10:00 AM	68.6	78.9	60.3

Leq Average 24 hrs. (dB(A)) 67.2
Lmax (dB(A)) 8-.7
L90 (dB(A)) 62.0
Ldn (dB(A)) 73.2
Standard (dB(A)) 70 11-

Reference Method : ISO1996P1 and 1996P2

Standard : 1. ยิง าศก ใ จี รมมี าร ใจควดปณคณลาคี หั ทัข- (บ.ศ. 2-40) เรตคี่ าสนดมาะร านรงค้ ไล้จลลค้ ทั่วไย
2. ยิง าศี รงทรวจก าสี รม เรตคี่ าสนดครงค้ ไล้จลล ารร วน คปงรงค้ ไล้จลล าศี ารยง ใ าศี าร
อรจณ บ.ศ. 2-48

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2250419

Date Received : May 06, 2022

Date Reported : May 14, 2022

Report Number: 22- 6062P1

Page 1 of 51

Sample Number 22(041- P1
Parameter Noise d.e) 24 hrs.G
Location ชุมชนที่อยู่ใกล้โครงการ ด้านทิศตะวันตกกq7f S 49f 06-- 36, 1(- 3(31G
Measurement Date May 04 PMay 0(, 2022
Measurement by Autit Aoonsim
Sound Level meter Serial No. (92(64

Time	Le) qdBqAG	Lmax qdBqAG	L-0 qdBqAG
0- :00 AM P10:00 AM	((.9	82.1	(2.2
10:00 AM P11:00 AM	((.3	90.9	(2.-
11:00 AM P12:00 fM	(3.-	6-.9	(1.9
12:00 fM P01:00 fM	(4.0	68.3	(1.1
01:00 fM P02:00 fM	(3.8	96.-	(0.9
02:00 fM P03:00 fM	((.4	94.9	(2.(
03:00 fM P04:00 fM	62.1	83.(	(3.3
04:00 fM P0(:00 fM	(9.6	82.2	(2.8
0(:00 fM P06:00 fM	(9.2	9-.2	(3.0
06:00 fM P09:00 fM	(8.0	96.6	(3.4
09:00 fM P08:00 fM	(9.4	91.(	(3.3
08:00 fM P0- :00 fM	(4.-	64.4	(3.2
0- :00 fM P10:00 fM	((.3	6(.2	(3.8
10:00 fM P11:00 fM	(4.4	64.3	(2.-
11:00 fM P12:00 AM	(4.8	6(.1	(3.2
12:00 AM P01:00 AM	(4.2	6(.8	(2.8
01:00 AM P02:00 AM	(4.(	6(.9	(3.1
02:00 AM P03:00 AM	(4.(	91.8	(2.(
03:00 AM P04:00 AM	(4.6	64.0	(3.1
04:00 AM P0(:00 AM	(4.0	63.0	(2.9
0(:00 AM P06:00 AM	((.2	6(.6	(3.-
06:00 AM P09:00 AM	(8.3	82.3	(4.(
09:00 AM P08:00 AM	((.4	92.1	(3.0
08:00 AM P0- :00 AM	(8.9	91.0	((.6

Le) Average 24 hrs. qdBqAG (6.4
Lmax qdBqAG 83.(
L-0 qdBqAG (3.0
Ldn qdBqAG 61.-
Standard qdBqAG 90 11(

Reference Method : ISO1-- 6P1 and 1-- 6P2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 1(พ.ศ. 2(40Gเรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2(48

Technical Management


Sararat Mongkonjirawut
Supervisor

Approved by


Supot Salamteh
Section Head

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Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 2250413

Date Received : May 06, 2022

Date Reported : May 11, 2022

Report Number : 2296046-1

P/O :

Project Name : Environmental Teting

Project Location :

Page 1 of 3

Sample No. 2250413-1
Parameter เสียงรบกวน
Location ชุมชนที่อยู่ใกล้โครงการ (ด้านทิศตะวันตก) (GPS 47P 0699936, 1593531)
Measurement Date May 04 - 05, 2022
Measurement by Autit Aoonsim
Sound Level Meter 00572564

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด (A)	เสียงขณะ ไม่มีการรบกวน (B)	ผลต่าง ระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D)		เสียงพื้นฐาน (E)	ค่าระดับ การรบกวน (D-E)
					กลางวัน (A-C)	กลางคืน (A-C)+3		
09:00 AM - 10:00 AM	55.7	53.6	2.1	4.5	51.2	-	51.7	-0.5
10:00 AM - 11:00 AM	55.3	54.9	0.4	7.0	48.3	-	52.5	-4.2
11:00 AM - 12:00 PM	53.9	53.4	0.5	7.0	46.9	-	51.3	-4.4
12:00 PM - 01:00 PM	54.0	52.8	1.2	7.0	47.0	-	50.5	-3.5
01:00 PM - 02:00 PM	53.8	53.2	0.6	7.0	46.8	-	50.4	-3.6
02:00 PM - 03:00 PM	55.4	56.2	-0.8	7.0	48.4	-	52.1	-3.7
03:00 PM - 04:00 PM	62.1	61.9	0.2	7.0	55.1	-	52.8	2.3
04:00 PM - 05:00 PM	57.6	58.1	-0.5	7.0	50.6	-	52.7	-2.1
05:00 PM - 06:00 PM	57.2	55.8	1.4	7.0	50.2	-	52.7	-2.5
06:00 PM - 07:00 PM	58.0	55.8	2.2	4.5	53.5	-	53.0	0.5
07:00 PM - 08:00 PM	57.4	56.6	0.8	7.0	50.4	-	53.2	-2.8
08:00 PM - 09:00 PM	54.9	59.4	-4.5	7.0	47.9	-	58.0	-10.1
09:00 PM - 10:00 PM	55.3	55.1	0.2	7.0	48.3	-	53.6	-5.3
10:00 PM - 10:05 PM	54.4	53.9	0.5	7.0	-	50.4	52.5	-2.1
10:05 PM - 10:10 PM	54.2	54.4	-0.2	7.0	-	50.2	52.8	-2.6
10:10 PM - 10:15 PM	54.2	54.0	0.2	7.0	-	50.2	52.7	-2.5
10:15 PM - 10:20 PM	54.2	60.6	-6.4	7.0	-	50.2	53.0	-2.8
10:20 PM - 10:25 PM	54.9	64.0	-9.1	7.0	-	50.9	63.7	-12.8
10:25 PM - 10:30 PM	54.8	58.5	-3.7	7.0	-	50.8	53.7	-2.9
10:30 PM - 10:35 PM	54.9	54.9	0.0	7.0	-	50.9	53.2	-2.3
10:35 PM - 10:40 PM	54.2	54.6	-0.4	7.0	-	50.2	53.4	-3.2
10:40 PM - 10:45 PM	53.9	54.3	-0.4	7.0	-	49.9	52.9	-3.0
10:45 PM - 10:50 PM	54.5	54.6	-0.1	7.0	-	50.5	53.1	-2.6
10:50 PM - 10:55 PM	54.2	54.7	-0.5	7.0	-	50.2	53.4	-3.2
10:55 PM - 11:00 PM	54.2	54.2	0.0	7.0	-	50.2	52.9	-2.7
11:00 PM - 11:05 PM	54.4	54.6	-0.2	7.0	-	50.4	53.1	-2.7
11:05 PM - 11:10 PM	54.4	54.6	-0.2	7.0	-	50.4	53.1	-2.7
11:10 PM - 11:15 PM	54.6	54.6	0.0	7.0	-	50.6	53.3	-2.7
11:15 PM - 11:20 PM	54.5	54.5	0.0	7.0	-	50.5	53.2	-2.7
11:20 PM - 11:25 PM	54.6	55.1	-0.5	7.0	-	50.6	53.7	-3.1
11:25 PM - 11:30 PM	55.0	55.0	0.0	7.0	-	51.0	53.9	-2.9
11:30 PM - 11:35 PM	54.7	54.8	-0.1	7.0	-	50.7	53.5	-2.8
11:35 PM - 11:40 PM	54.9	55.1	-0.2	7.0	-	50.9	53.6	-2.7
11:40 PM - 11:45 PM	55.0	55.1	-0.1	7.0	-	51.0	53.7	-2.7
11:45 PM - 11:50 PM	55.0	54.9	0.1	7.0	-	51.0	53.6	-2.6
11:50 PM - 11:55 PM	54.9	55.4	-0.5	7.0	-	50.9	53.8	-2.9
11:55 PM - 12:00 AM	55.1	55.2	-0.1	7.0	-	51.1	54.1	-3.0
12:00 AM - 12:05 AM	54.9	55.2	-0.3	7.0	-	50.9	53.9	-3.0
12:05 AM - 12:10 AM	55.1	55.0	0.1	7.0	-	51.1	53.5	-2.4
12:10 AM - 12:15 AM	54.1	54.5	-0.4	7.0	-	50.1	53.2	-3.1

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Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 2250413

Date Received : May 06, 2022

Date Reported : May 11, 2022

Report Number : 2296046-1

P/O :

Project Name : Environmental Testing

Project Location :

Page 2 of 3

Sample No. 2250413-1
Parameter เสียงรบกวน
Location ชุมชนที่อยู่ใกล้โครงการ (ด้านทิศตะวันตก) (GPS 47P 0699936, 1593531)
Measurement Date May 04 - 05, 2022
Measurement by Autit Aoonsim
Sound Level Meter 00572564

ระดับเสียง (dB(A))

เวลา	เสียงจาก แหล่งกำเนิด ^(A)	เสียงขณะ ไม่มีการรบกวน ^(B)	ผลต่าง ระดับเสียง ^(A-B)	ตัวปรับค่า ^(C)	ปรับค่าเสียงจากแหล่งกำเนิด ^(D)		เสียงพื้นฐาน ^(E)	ค่าระดับ การรบกวน ^(D-E)
					กลางวัน ^(A-C)	กลางคืน ^{(A-C)+3}		
12:15 AM - 12:20 AM	54.2	54.2	0.0	7.0	-	50.2	52.9	-2.7
12:20 AM - 12:25 AM	54.1	54.2	-0.1	7.0	-	50.1	52.9	-2.8
12:25 AM - 12:30 AM	53.8	54.3	-0.5	7.0	-	49.8	53.0	-3.2
12:30 AM - 12:35 AM	54.1	53.9	0.2	7.0	-	50.1	52.4	-2.3
12:35 AM - 12:40 AM	53.8	54.0	-0.2	7.0	-	49.8	52.5	-2.7
12:40 AM - 12:45 AM	54.5	54.7	-0.2	7.0	-	50.5	53.0	-2.5
12:45 AM - 12:50 AM	54.1	54.1	0.0	7.0	-	50.1	52.8	-2.7
12:50 AM - 12:55 AM	54.2	54.2	0.0	7.0	-	50.2	52.8	-2.6
12:55 AM - 01:00 AM	53.8	54.5	-0.7	7.0	-	49.8	53.1	-3.3
01:00 AM - 01:05 AM	54.3	54.1	0.2	7.0	-	50.3	52.9	-2.6
01:05 AM - 01:10 AM	54.2	54.3	-0.1	7.0	-	50.2	52.8	-2.6
01:10 AM - 01:15 AM	53.7	54.6	-0.9	7.0	-	49.7	53.2	-3.5
01:15 AM - 01:20 AM	54.3	54.3	0.0	7.0	-	50.3	53.1	-2.8
01:20 AM - 01:25 AM	53.9	54.4	-0.5	7.0	-	49.9	52.9	-3.0
01:25 AM - 01:30 AM	54.6	54.6	0.0	7.0	-	50.6	53.2	-2.6
01:30 AM - 01:35 AM	54.3	54.4	-0.1	7.0	-	50.3	53.3	-3.0
01:35 AM - 01:40 AM	54.5	54.7	-0.2	7.0	-	50.5	53.5	-3.0
01:40 AM - 01:45 AM	54.8	54.9	-0.1	7.0	-	50.8	53.5	-2.7
01:45 AM - 01:50 AM	55.0	55.4	-0.4	7.0	-	51.0	54.0	-3.0
01:50 AM - 01:55 AM	55.5	54.9	0.6	7.0	-	51.5	53.4	-1.9
01:55 AM - 02:00 AM	54.5	54.8	-0.3	7.0	-	50.5	53.4	-2.9
02:00 AM - 02:05 AM	54.4	54.5	-0.1	7.0	-	50.4	52.9	-2.5
02:05 AM - 02:10 AM	54.1	54.3	-0.2	7.0	-	50.1	52.9	-2.8
02:10 AM - 02:15 AM	53.7	53.9	-0.2	7.0	-	49.7	52.4	-2.7
02:15 AM - 02:20 AM	53.8	54.7	-0.9	7.0	-	49.8	53.2	-3.4
02:20 AM - 02:25 AM	54.4	54.3	0.1	7.0	-	50.4	53.0	-2.6
02:25 AM - 02:30 AM	54.3	54.4	-0.1	7.0	-	50.3	53.0	-2.7
02:30 AM - 02:35 AM	54.3	54.4	-0.1	7.0	-	50.3	53.0	-2.7
02:35 AM - 02:40 AM	54.0	54.0	0.0	7.0	-	50.0	52.8	-2.8
02:40 AM - 02:45 AM	54.4	54.9	-0.5	7.0	-	50.4	52.7	-2.3
02:45 AM - 02:50 AM	56.2	55.7	0.5	7.0	-	52.2	53.1	-0.9
02:50 AM - 02:55 AM	54.2	54.2	0.0	7.0	-	50.2	52.9	-2.7
02:55 AM - 03:00 AM	55.8	55.8	0.0	7.0	-	51.8	51.3	0.5
03:00 AM - 03:05 AM	55.9	55.8	0.1	7.0	-	51.9	54.4	-2.5
03:05 AM - 03:10 AM	55.8	55.5	0.3	7.0	-	51.8	54.0	-2.2
03:10 AM - 03:15 AM	54.9	54.0	0.9	7.0	-	50.9	52.2	-1.3
03:15 AM - 03:20 AM	54.3	54.7	-0.4	7.0	-	50.3	53.5	-3.2
03:20 AM - 03:25 AM	54.5	54.4	0.1	7.0	-	50.5	53.3	-2.8
03:25 AM - 03:30 AM	54.1	54.2	-0.1	7.0	-	50.1	52.9	-2.8
03:30 AM - 03:35 AM	54.1	54.6	-0.5	7.0	-	50.1	53.3	-3.2

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Approved by

Kanok Korn Anek

Kanok Korn Anek
Senior Manager



Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 2250413

Date Received : May 06, 2022

Date Reported : May 11, 2022

Report Number : 2296046-1

P/O :

Project Name : Environmental Testing

Project Location :

Page 3 of 3

Sample No. 2250413-1
Parameter เสียงรบกวน
Location ชุมชนที่อยู่ใกล้โครงการ (ด้านทิศตะวันตก) (GPS 47P 0699936, 1593531)
Measurement Date May 04 - 05, 2022
Measurement by Autit Aoonsim
Sound Level Meter 00572564

ระดับเสียง (dB(A))

เวลา	(A) เสียงจากแหล่งกำเนิด	(B) เสียงขณะไม่มีการรบกวน	(A-B) ผลต่างระดับเสียง	(C) ตัวปรับค่า	(D) ปรับค่าเสียงจากแหล่งกำเนิด		(E) เสียงพื้นฐาน	(D-E) ค่าระดับการรบกวน
					(A-C) กลางวัน	(A-C)+3 กลางคืน		
03:35 AM - 03:40 AM	54.3	54.4	-0.1	7.0	-	50.3	53.3	-3.0
03:40 AM - 03:45 AM	54.3	54.4	-0.1	7.0	-	50.3	53.0	-2.7
03:45 AM - 03:50 AM	53.9	54.2	-0.3	7.0	-	49.9	52.9	-3.0
03:50 AM - 03:55 AM	53.7	54.2	-0.5	7.0	-	49.7	52.8	-3.1
03:55 AM - 04:00 AM	54.5	54.6	-0.1	7.0	-	50.5	53.0	-2.5
04:00 AM - 04:05 AM	54.3	54.2	0.1	7.0	-	50.3	52.6	-2.3
04:05 AM - 04:10 AM	53.8	53.8	0.0	7.0	-	49.8	52.4	-2.6
04:10 AM - 04:15 AM	53.4	53.6	-0.2	7.0	-	49.4	52.3	-2.9
04:15 AM - 04:20 AM	53.9	54.2	-0.3	7.0	-	49.9	52.8	-2.9
04:20 AM - 04:25 AM	53.6	54.1	-0.5	7.0	-	49.6	52.8	-3.2
04:25 AM - 04:30 AM	54.0	54.3	-0.3	7.0	-	50.0	53.0	-3.0
04:30 AM - 04:35 AM	54.1	54.3	-0.2	7.0	-	50.1	52.7	-2.6
04:35 AM - 04:40 AM	53.9	54.4	-0.5	7.0	-	49.9	53.1	-3.2
04:40 AM - 04:45 AM	53.9	54.2	-0.3	7.0	-	49.9	52.9	-3.0
04:45 AM - 04:50 AM	54.5	54.7	-0.2	7.0	-	50.5	53.3	-2.8
04:50 AM - 04:55 AM	54.2	54.9	-0.7	7.0	-	50.2	53.5	-3.3
04:55 AM - 05:00 AM	54.4	54.4	0.0	7.0	-	50.4	53.2	-2.8
05:00 AM - 05:05 AM	54.6	54.8	-0.2	7.0	-	50.6	53.4	-2.8
05:05 AM - 05:10 AM	55.0	55.5	-0.5	7.0	-	51.0	53.9	-2.9
05:10 AM - 05:15 AM	55.0	54.8	0.2	7.0	-	51.0	53.5	-2.5
05:15 AM - 05:20 AM	54.7	54.8	-0.1	7.0	-	50.7	53.5	-2.8
05:20 AM - 05:25 AM	54.3	54.8	-0.5	7.0	-	50.3	53.3	-3.0
05:25 AM - 05:30 AM	54.6	54.9	-0.3	7.0	-	50.6	53.6	-3.0
05:30 AM - 05:35 AM	54.8	55.1	-0.3	7.0	-	50.8	53.8	-3.0
05:35 AM - 05:40 AM	54.9	55.4	-0.5	7.0	-	50.9	54.1	-3.2
05:40 AM - 05:45 AM	55.0	55.3	-0.3	7.0	-	51.0	53.8	-2.8
05:45 AM - 05:50 AM	55.5	55.8	-0.3	7.0	-	51.5	54.5	-3.0
05:50 AM - 05:55 AM	55.6	57.5	-1.9	7.0	-	51.6	55.0	-3.4
05:55 AM - 06:00 AM	57.2	59.4	-2.2	7.0	-	53.2	56.9	-3.7
06:00 AM - 07:00 AM	58.3	57.8	0.5	7.0	51.3	-	54.6	-3.3
07:00 AM - 08:00 AM	55.4	54.8	0.6	7.0	48.4	-	52.7	-4.3
08:00 AM - 09:00 AM	58.7	56.0	2.7	3.0	55.7	-	53.7	2.0
ค่ามาตรฐาน	≤ 10							

Reference Method : Based on ISO 1996-1 and ISO 1996-2

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
- ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง ค่าระดับเสียงรบกวน ฉบับที่ 29 พ.ศ. 2550
- ประกาศคณะกรรมการควบคุมมลพิษ เรื่อง วิธีการตรวจวัดระดับเสียงพื้นฐาน ระดับเสียงขณะไม่มีการรบกวน การตรวจวัดและคำนวณระดับเสียงขณะมีการรบกวน การคำนวณค่าระดับการรบกวน และแบบบันทึกการตรวจวัดเสียงรบกวน พ.ศ. 2550 และประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
- ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 04-05 พฤษภาคม 2565
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.2250417-1 วันที่ตรวจวัด 04-05 พฤษภาคม 2565)

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Approved by

Kanokkorn Anek
Senior Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 2250417
Date Received : May 06, 2022
Date Reported : May 11, 2022
Report No. : 2296048-1

P/O :
Project Name : Environmental Testing
Project Location :

Page 1 of 3

Sample No. 2250417-1
Parameter Noise
Location หมู่ชนที่อยู่ใกล้โครงการ (จุดอ้างอิง) (GPS 47P 0699899, 1593565) (Shut down)
Measurement Date May 04 - 05, 2022
Measurement by Autit Aoonsim
Sound Level Meter 00572562

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	53.6	66.3	51.7
10:00 AM - 11:00 AM	54.9	66.7	52.5
11:00 AM - 12:00 PM	53.4	65.4	51.3
12:00 PM - 01:00 PM	52.8	65.2	50.5
01:00 PM - 02:00 PM	53.2	73.2	50.4
02:00 PM - 03:00 PM	56.2	79.0	52.1
03:00 PM - 04:00 PM	61.9	83.7	52.8
04:00 PM - 05:00 PM	58.1	86.0	52.7
05:00 PM - 06:00 PM	55.8	74.2	52.7
06:00 PM - 07:00 PM	55.8	70.3	53.0
07:00 PM - 08:00 PM	56.6	68.8	53.2
08:00 PM - 09:00 PM	59.4	66.9	58.0
09:00 PM - 10:00 PM	55.1	64.9	53.6
10:00 PM - 10:05 PM	53.9	58.9	52.5
10:05 PM - 10:10 PM	54.4	62.1	52.8
10:10 PM - 10:15 PM	54.0	59.8	52.7
10:15 PM - 10:20 PM	60.6	64.5	53.0
10:20 PM - 10:25 PM	64.0	65.0	63.7
10:25 PM - 10:30 PM	58.5	64.5	53.7
10:30 PM - 10:35 PM	54.9	61.5	53.2
10:35 PM - 10:40 PM	54.6	59.6	53.4
10:40 PM - 10:45 PM	54.3	60.8	52.9
10:45 PM - 10:50 PM	54.6	63.7	53.1
10:50 PM - 10:55 PM	54.7	61.1	53.4
10:55 PM - 11:00 PM	54.2	60.1	52.9
11:00 PM - 11:05 PM	54.6	65.4	53.1
11:05 PM - 11:10 PM	54.6	63.2	53.1
11:10 PM - 11:15 PM	54.6	62.3	53.3
11:15 PM - 11:20 PM	54.5	59.2	53.2
11:20 PM - 11:25 PM	55.1	62.4	53.7
11:25 PM - 11:30 PM	55.0	62.6	53.9
11:30 PM - 11:35 PM	54.8	61.8	53.5
11:35 PM - 11:40 PM	55.1	61.7	53.6
11:40 PM - 11:45 PM	55.1	59.4	53.7
11:45 PM - 11:50 PM	54.9	59.2	53.6
11:50 PM - 11:55 PM	55.4	64.5	53.8
11:55 PM - 12:00 AM	55.2	59.6	54.1
12:00 AM - 12:05 AM	55.2	62.6	53.9
12:05 AM - 12:10 AM	55.0	64.3	53.5
12:10 AM - 12:15 AM	54.5	59.2	53.2

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Approved by

Kanok Korn Anek

Kanokkorn Anek
Senior Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 2250417
Date Received : May 06, 2022
Date Reported : May 11, 2022
Report No. : 2296048-1

P/O :
Project Name : Environmental Testing
Project Location :

Page 2 of 3

Sample No. 2250417-1
Parameter Noise
Location หมู่ชนที่อยู่ใกล้โครงการ (จุดอ้างอิง) (GPS 47P 0699899, 1593565) (Shut down)
Measurement Date May 04 - 05, 2022
Measurement by Autit Aoonsim
Sound Level Meter 00572562

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:15 AM - 12:20 AM	54.2	59.0	52.9
12:20 AM - 12:25 AM	54.2	60.7	52.9
12:25 AM - 12:30 AM	54.3	59.4	53.0
12:30 AM - 12:35 AM	53.9	58.5	52.4
12:35 AM - 12:40 AM	54.0	60.8	52.5
12:40 AM - 12:45 AM	54.7	65.3	53.0
12:45 AM - 12:50 AM	54.1	58.9	52.8
12:50 AM - 12:55 AM	54.2	59.1	52.8
12:55 AM - 01:00 AM	54.5	61.4	53.1
01:00 AM - 01:05 AM	54.1	59.5	52.9
01:05 AM - 01:10 AM	54.3	61.4	52.8
01:10 AM - 01:15 AM	54.6	61.2	53.2
01:15 AM - 01:20 AM	54.3	59.4	53.1
01:20 AM - 01:25 AM	54.4	62.5	52.9
01:25 AM - 01:30 AM	54.6	60.2	53.2
01:30 AM - 01:35 AM	54.4	60.0	53.3
01:35 AM - 01:40 AM	54.7	59.1	53.5
01:40 AM - 01:45 AM	54.9	60.3	53.5
01:45 AM - 01:50 AM	55.4	62.6	54.0
01:50 AM - 01:55 AM	54.9	62.8	53.4
01:55 AM - 02:00 AM	54.8	63.2	53.4
02:00 AM - 02:05 AM	54.5	64.0	52.9
02:05 AM - 02:10 AM	54.3	61.2	52.9
02:10 AM - 02:15 AM	53.9	60.8	52.4
02:15 AM - 02:20 AM	54.7	62.0	53.2
02:20 AM - 02:25 AM	54.3	59.7	53.0
02:25 AM - 02:30 AM	54.4	59.0	53.0
02:30 AM - 02:35 AM	54.4	60.1	53.0
02:35 AM - 02:40 AM	54.0	58.6	52.8
02:40 AM - 02:45 AM	54.9	69.3	52.7
02:45 AM - 02:50 AM	55.7	70.7	53.1
02:50 AM - 02:55 AM	54.2	58.9	52.9
02:55 AM - 03:00 AM	55.8	67.7	51.3
03:00 AM - 03:05 AM	55.8	60.5	54.4
03:05 AM - 03:10 AM	55.5	62.3	54.0
03:10 AM - 03:15 AM	54.0	59.2	52.2
03:15 AM - 03:20 AM	54.7	59.7	53.5
03:20 AM - 03:25 AM	54.4	59.5	53.3
03:25 AM - 03:30 AM	54.2	58.6	52.9
03:30 AM - 03:35 AM	54.6	59.5	53.3

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate 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

Kanok Korn Anek

Kanokkorn Anek
Senior Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

Lot ID: 2250417
Date Received : May 06, 2022
Date Reported : May 11, 2022
Report No. : 2296048-1

P/O :
Project Name : Environmental Testing
Project Location :

Page 3 of 3

Sample No. 2250417-1
Parameter Noise
Location ชุมชนที่อยู่ใกล้โครงการ (จุดอ้างอิง) (GPS 47P 0699899, 1593565) (Shut down)
Measurement Date May 04 - 05, 2022
Measurement by Autit Aoonsim
Sound Level Meter 00572562

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:35 AM - 03:40 AM	54.4	60.9	53.3
03:40 AM - 03:45 AM	54.4	58.9	53.0
03:45 AM - 03:50 AM	54.2	61.0	52.9
03:50 AM - 03:55 AM	54.2	62.7	52.8
03:55 AM - 04:00 AM	54.6	60.2	53.0
04:00 AM - 04:05 AM	54.2	60.0	52.6
04:05 AM - 04:10 AM	53.8	59.0	52.4
04:10 AM - 04:15 AM	53.6	59.9	52.3
04:15 AM - 04:20 AM	54.2	61.9	52.8
04:20 AM - 04:25 AM	54.1	59.3	52.8
04:25 AM - 04:30 AM	54.3	60.7	53.0
04:30 AM - 04:35 AM	54.3	62.7	52.7
04:35 AM - 04:40 AM	54.4	60.2	53.1
04:40 AM - 04:45 AM	54.2	60.6	52.9
04:45 AM - 04:50 AM	54.7	61.5	53.3
04:50 AM - 04:55 AM	54.9	60.2	53.5
04:55 AM - 05:00 AM	54.4	59.1	53.2
05:00 AM - 05:05 AM	54.8	61.9	53.4
05:05 AM - 05:10 AM	55.5	61.8	53.9
05:10 AM - 05:15 AM	54.8	60.3	53.5
05:15 AM - 05:20 AM	54.8	59.9	53.5
05:20 AM - 05:25 AM	54.8	60.9	53.3
05:25 AM - 05:30 AM	54.9	62.5	53.6
05:30 AM - 05:35 AM	55.1	61.5	53.8
05:35 AM - 05:40 AM	55.4	61.3	54.1
05:40 AM - 05:45 AM	55.3	59.2	53.8
05:45 AM - 05:50 AM	55.8	68.9	54.5
05:50 AM - 05:55 AM	57.5	63.4	55.0
05:55 AM - 06:00 AM	59.4	69.0	56.9
06:00 AM - 07:00 AM	57.8	78.0	54.6
07:00 AM - 08:00 AM	54.8	68.7	52.7
08:00 AM - 09:00 AM	56.0	67.5	53.7

Reference Method : Based on ISO 1996-1 and ISO 1996-2

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Approved by

Kanokkorn Anek
Senior Manager

ภาคผนวก ค-5

ระดับเสียงในบริเวณการทำงาน



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149418

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214831-1

Page 1 of 1

Sample Number 21149418-1
Parameter Noise (Leq 8 hrs.)
Location เดชาหลอม MCL4
Measurement Date Jan 19, 2022
Measurement by Aphiwat Tumnoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:02 PM - 06:02 PM	81.3	92.6	78.3
06:02 PM - 07:02 PM	80.3	98.0	77.1
07:02 PM - 08:02 PM	79.1	85.9	76.5
08:02 PM - 09:02 PM	83.2	96.9	77.4
09:02 PM - 10:02 PM	83.9	89.4	81.6
10:02 PM - 11:02 PM	81.1	87.3	77.7
11:02 PM - 12:02 AM	79.9	91.5	77.2
12:02 AM - 01:02 AM	84.1	97.1	81.3

Leq Average 8 hrs. (dB(A))

82.0

Lmax (dB(A))

98.0

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Technical Management

Sararat Mongkonjirawut
Scientist (4)

Approved by

Supot Salamteh
Section Head

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Project Location :

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Date Reported : Jan 25, 2022
Report Number: 2214832-1

Page 1 of 1

Sample Number	21149418-2
Parameter	Noise (Leq 8 hrs.)
Location	ด้านทิศใต้ของถนน MCL4
Measurement Date	Jan 19, 2022
Measurement by	Aphiwat Tumnoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:40 AM - 10:40 AM	81.2	99.1	65.2
10:40 AM - 11:40 AM	82.5	99.3	67.9
11:40 AM - 12:40 PM	65.8	82.0	63.9
12:40 PM - 01:40 PM	69.2	102.5	64.3
01:40 PM - 02:40 PM	80.5	95.6	65.1
02:40 PM - 03:40 PM	69.0	96.2	64.8
03:40 PM - 04:40 PM	81.2	102.8	62.7
04:40 PM - 05:40 PM	81.2	99.6	63.8

Leq Average 8 hrs. (dB(A))

80.4

Lmax (dB(A))

102.8

Standard (dB(A))

90

140

Reference Method : Based on ISO1997-1 and 1997-2

Standard : ปา สวี สา ทำ มัคคตวรสาวิ าม วั สวาตตตอมต วั ปไอนบง

^a ะสวาปา สอศสขิสิววิ นามมะ สต สตตบว ก นใมี ะสวาทวมมะ พี. ๒๕๔๖

Technical Management

Sept

Sararat Mongkonjirawut
Scientist (4)

Approved by

Snapt S.

Supot Salamteh
Section Head

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149418

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214833-1

Page 1 of 1

Sample Number 21149418-3
Parameter Noise (Leq 8 hrs.)
Location เตาอบชุมชนงาน MCL4
Measurement Date Jan 19, 2022
Measurement by Aphiwat Tumnoo

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:44 AM - 10:44 AM	89.5	92.2	88.4
10:44 AM - 11:44 AM	89.6	92.6	88.4
11:44 AM - 12:44 PM	90.2	93.3	89.0
12:44 PM - 01:44 PM	90.3	93.5	89.1
01:44 PM - 02:44 PM	90.0	92.7	89.0
02:44 PM - 03:44 PM	89.6	92.7	88.6
03:44 PM - 04:44 PM	88.9	91.3	88.1
04:44 PM - 05:44 PM	89.8	92.8	88.7

Leq Average 8 hrs. (dB(A))

89.8

Lmax (dB(A))

93.5

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 2285457-1

Page 1 of 1

Sample Number 2238930-1
Parameter Noise (Leq 8 hrs.)
Location เดชาหลอม : MCL1
Measurement Date Apr 06, 2022
Measurement by NarupolThongnuch

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:20 AM - 01:20 AM	81.1	100.9	76.2
01:20 AM - 02:20 AM	86.0	107.5	79.1
02:20 AM - 03:20 AM	84.7	103.7	77.5
03:20 AM - 04:20 AM	83.2	99.5	73.6
04:20 AM - 05:20 AM	84.1	104.0	77.1
05:20 AM - 06:20 AM	86.2	107.6	78.4
06:20 AM - 07:20 AM	85.2	96.6	78.6
07:20 AM - 08:20 AM	84.8	100.7	78.1

Leq Average 8 hrs. (dB(A))

84.7

Lmax (dB(A))

107.6

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-82P1

Page 1 of 1

Sample Number 2114(335P1
Parameter Noise d.e) 8 hrs.6
Location เดอหลอม : MCL1
Measurement Date Jan 18, 2022
Measurement by Aphiwat Tumnoo

Time	Le) dBA66	Lmax dBA66	L(0 dBA66
08:51 AM P0(:51 AM	83.7	((.3	-8.8
0(:51 AM P10:51 AM	87.4	112.5	- (.7
10:51 AM P11:51 AM	83.3	(3.-	-(.2
11:51 AM P12:51 f M	81.(	(-.3	-4.1
12:51 f M P01:51 f M	80.-	102.5	-3.7
01:51 f M P02:51 f M	84.4	101.(	-7.(
02:51 f M P03:51 f M	84.4	102.-	-(.3
03:51 f M P04:51 f M	82.2	(8.(	-8.5

Le) Average 8 hrs. dBA66

83.-

Lmax dBA66

112.5

Standard dBA66

(0

140

Reference Method : Based on ISO1((7P1 and 1((7P2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-83P1

Page 1 of 1

Sample Number 2114(335P2
Parameter Noise d.e) 8 hrs.6
Location เดทหลอม : MCL2
Measurement Date Jan 1-, 2022
Measurement by Aphiwat Tumnoo

Time	Le) dBA66	Lmax dBA66	L(0 dBA66
0(-4- AM P10:4- AM	85.3	(3.8	81.5
10:4- AM P11:4- AM	85.0	102.8	80.(
11:4- AM P12:4- fM	84.8	101.(	80.3
12:4- fM P01:4- fM	85.0	((.0	80.-
01:4- fM P02:4- fM	83.-	(3.4	-(.8
02:4- fM P03:4- fM	84.7	(8.7	-(.1
03:4- fM P04:4- fM	84.2	102.5	-(.8
04:4- fM P05:4- fM	84.(	(1.2	80.5

Le) Average 8 hrs. dBA66

84.-

Lmax dBA66

102.8

Standard dBA66

(0

140

Reference Method : Based on ISO1((7P1 and 1((7P2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Project Location :

Date Received : Jan 21, 2022
Date Reported : Jan 25, 2022
Report Number: 2214-84P1

page 1 of 91

Sample Number	2114/ (335P3
Parameter	Noise d.e) 8 hrs.6
Location	ตามหลักศตทาง : MCL1
Measurement Date	Jan 18, 2022
Measurement by	Aphiwat Tumnoo

Time	Le) qdBqA66	Lmax qdBqA66	L(0 qdBqA66
10:50 AM P 11:50 AM	-2.0	8-.-	77.2
11:50 AM P 12:50 f M	-1.4	(4.3	74.5
12:50 f M P 01:50 f M	-0.4	84.-	75.1
01:50 f M P 02:50 f M	7(.5	82.-	77.1
02:50 f M P 03:50 f M	-0.3	84.8	77.-
03:50 f M P 04:50 f M	-2.(	83.-	7- .7
04:50 f M P 05:50 f M	-1.0	82.2	7- .4
05:50 f M P 07:50 f M	-0.8	84.7	7- .4

Le) Average 8 hrs. σ_{BQA66}	-1.2	
Lmax σ_{BQA66}		(4.3)
Standard σ_{BQA66}	(0	140
Reference Method : Based on ISO1((7P1 and 1((7P2		
Standard : ปุ๋ย สรี รว ทำ มัถคตรวจสำ ห้ ามม บั ร าสวดัดตามอน บั ร ไปอนนง ะสาปสา สอดสัสนำ ามมะ สด สดตบว ก นไ้ ะสาทามมะ พื .๒๕๔๖		

Technical Management

Sept

Sararat Mongkonjirawut
Scientist α6

Approved by

Snapt S.

Supot Salamteh
Section Head

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Lot ID: 21149335
Date Received : Jan 21, 2022
Date Reported : Jan 25, 2022
Report Number: 2214-85P1

f age 1 o91

Le) Average 8 hrs. σ_{BQA66} -7.1
 L_{max} σ_{BQA66}
Standard σ_{BQA66} (0
Reference Method : Based on ISO1((7P1 and 1((7P2
Standard : ป่า สรี สภา ทำ มัคคตรวจสำ ักม วั สวาศัดตามม วั ปโนนบ
ะสวาศา สอศสว ำ ามมะ สด สดบว ัก นส ะสวาทามมะ พ. ๒๕๔๔



Analysis / Test Report

Client : Magotteaux Co., Ltd.
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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-8Pf1

Page 1 of 1

Sample Number 2114q335f5
Parameter Noise)Le6 8 hrs.7
Location เครื่องคัดแยกขนาดชิ้นงาน : MCL1
Measurement Date Jan 18, 2022
Measurement by Aphiwat Tumnoo

Time	Le6)dB)A77	Lmax)dB)A77	Lq0)dB)A77
08:50 AM f 09:50 AM	8-.-	q8.5	81.0
09:50 AM f 10:50 AM	88.3	100.4	8P.q
10:50 AM f 11:50 AM	88.4	q5.2	8-.-
11:50 AM f 12:50 PM	88.4	qq.8	8- .P
12:50 PM f 01:50 PM	8- .q	q8.8	8P.P
01:50 PM f 02:50 PM	88.0	100.P	8- .1
02:50 PM f 03:50 PM	8- .4	qq.0	8P.P
03:50 PM f 04:50 PM	88.-	q8.P	84.5

Le6 Average 8 hrs.)dB)A77

88.1

Lmax)dB)A77

100.P

Standard)dB)A77

q0

140

Reference Method : Based on ISO1qPf1 and 1qPf2

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Technical Management

Sararat Mongkonjirawut
Scientist)47

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-8-P1

Page 1 of 1

Sample Number 2114(335Pq
Parameter Noise)Le6 8 hrs.7
Location เครื่องคัดแยกขนาดชิ้นงาน : MCL2
Measurement Date Jan 1- , 2022
Measurement by Aphiwat Tumnoo

Time	Le6)dB)A77	Lmax)dB)A77	L(0)dB)A77
0(:38 AM P 10:38 AM	8(.5	(q.-	88.5
10:38 AM P 11:38 AM	8(.-	(8.8	88.5
11:38 AM P 12:38 f M	8(.4	(q.2	88.4
12:38 f M P 01:38 f M	8(.4	(5.(	88.4
01:38 f M P 02:38 f M	8(.3	(5.4	88.0
02:38 f M P 03:38 f M	8(.4	(q.1	88.3
03:38 f M P 04:38 f M	8( .(	100.q	8(.0
04:38 f M P 05:38 f M	(0.(	( 4.4	8(.0

Le6 Average 8 hrs.)dB)A77

8(.-

Lmax)dB)A77

100.q

Standard)dB)A77

(0

140

Reference Method : Based on ISO1((qP1 and 1((qP2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Project Name : Environmental Tesing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-8Pf1

Page 1 of 1

Sample Number 2114P335f8
Parameter Noise d.e) 8 hrs.6
Location เตาอบชุมชนงาน : 7 T2
Measurement Date Jan 18, 2022
Measurement by Aphiwat Tumnoo

Time	Le) dB(A)66	Lmax dB(A)66	LPO dB(A)66
08:48 AM f 09:48 AM	81.1	P5.0	18.1
09:48 AM f 10:48 AM	85.1	102.8	82.5
10:48 AM f 11:48 AM	85.-	102.1	82.5
11:48 AM f 12:48 PM	84.4	102.-	82.5
12:48 PM f 01:48 PM	85.8	102.1	81.0
01:48 PM f 02:48 PM	81.8	101.1	80.4
02:48 PM f 03:48 PM	84.5	101.5	81.2
03:48 PM f 04:48 PM	82.8	P2.-	82.4

Le) Average 8 hrs. dB(A)66

84.2

Lmax dB(A)66

102.8

Standard dB(A)66

P0

140

Reference Method : Based on CSH1PPIf1 and 1PPIf2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Technical Management

Sararat Mongkonjirawut
Scientist q46

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Supot Salamteh
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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-P0f1

Page 1 of 1

Sample Number 2114P335fP
Parameter Noise d.e) 8 hrs.6
Location เตาอบชุมชนงาน : 7 T3
Measurement Date Jan 1P, 2022
Measurement by Aphiwat Tumnoo

Time	Le) dBA66	Lmax dBA66	LPO dBA66
08:2P AM f 0P:2P AM	88.8	101.1	85.0
0P:2P AM f 10:2P AM	8P.0	102.2	84.8
10:2P AM f 11:2P AM	88.-	101.8	84.3
11:2P AM f 12:2P 9M	88.8	102.3	84.-
12:2P 9M f 01:2P 9M	88.8	102.4	84.P
01:2P 9M f 02:2P 9M	88.8	102.3	85.1
02:2P 9M f 03:2P 9M	88.P	102.3	84.5
03:2P 9M f 04:2P 9M	8P.1	103.I	84.-

Le) Average 8 hrs. dBA66

88.P

Lmax dBA66

103.I

Standard dBA66

P0

140

Re(ference Method : Based on CSH1PPIf1 and 1PPIf2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Technical Management

Sararat Mongkonjirawut
Scientist q46

Approved by

Supot Salamteh
Section 7ead

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14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149335

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2214-P1f1

Page 1 of 1

Sample Number 2114P335f10
Parameter Noise d.e) 8 hrs.6
Location เตาอบชุมชนงาน : 7T4
Measurement Date Jan 1-, 2022
Measurement by Aphiwat Tumnoo

Time	Le) dBA66	Lmax dBA66	LPO dBA66
0P:52 AM f 10:52 AM	8-.0	PP.2	82.P
10:52 AM f 11:52 AM	85.-	PP.8	82.2
11:52 AM f 12:52 9M	85.2	102.1	82.0
12:52 9M f 01:52 9M	8-.1	101.4	82.8
01:52 9M f 02:52 9M	8-.3	PP.3	82.P
02:52 9M f 03:52 9M	8-.2	P8.-	83.2
03:52 9M f 04:52 9M	8-.5	100.2	83.4
04:52 9M f 05:52 9M	88.1	PP.1	84.1

Le) Average 8 hrs. dBA66

8-.1

Lmax dBA66

102.1

Standard dBA66

P0

140

Reference Method : Based on CSH1PPIf1 and 1PPIf2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 2285458-1

Page 1 of 1

Sample Number 2238930-2
Parameter Noise (Leq 8 hrs.)
Location เดอหลอม : MCL2
Measurement Date Apr 06, 2022
Measurement by NarupolThongnuch

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:05 AM - 01:05 AM	82.3	93.2	76.7
01:05 AM - 02:05 AM	83.8	98.1	78.5
02:05 AM - 03:05 AM	84.9	100.6	78.7
03:05 AM - 04:05 AM	84.6	104.8	79.4
04:05 AM - 05:05 AM	85.1	105.5	78.4
05:05 AM - 06:05 AM	84.3	98.4	79.6
06:05 AM - 07:05 AM	85.4	103.9	79.7
07:05 AM - 08:05 AM	84.9	104.8	79.6

Leq Average 8 hrs. (dB(A))

84.5

Lmax (dB(A))

105.5

Standard (dB(A))

90

140

Reference Method : Based on ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 228545- P1

f age 1 o91

Sample Number 2238- 30P3
Parameter Noise (Leq 8 hrs.)
Location ตามประกาศทาง : MCL1
Measurement Date Apr 06, 2022
Measurement by NarupolThongnuch

Time	Leq (dB(A))	Lmax (dB(A))	L-0 (dB(A))
12:1- AM P01:1- AM	71.3	85.-	66.0
01:1- AM P02:1- AM	71.4	85.5	66.3
02:1- AM P03:1- AM	71.-	88.1	64.6
03:1- AM P04:1- AM	72.3	87.2	63.8
04:1- AM P05:1- AM	71.5	86.-	66.2
05:1- AM P06:1- AM	71.6	86.7	66.4
06:1- AM P07:1- AM	72.6	88.1	66.7
07:1- AM P08:1- AM	74.0	8-.-	66.7

Leq Average 8 hrs. (dB(A))

72.2

Lmax (dB(A))

8-.-

Standard (dB(A))

-0

140

Reference Method : Based on ISO1--6P1 and 1--6P2

Standard : ปฎิบัติ สหประชาชาติ ตามข้อกำหนดของ WHO

และ สหประชาชาติ ตามข้อกำหนดของ WHO

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 22854- 0P1

Page 1 of 1

Sample Number 2238(30P4
Parameter Noise d.e) 8 hrs.6
Location ตามประกาศทาง : MCL2
Measurement Date Apr 0-, 2022
Measurement by NarupolThongnuch

Time	Le) dBA66	Lmax dBA66	L(0 dBA66
12:05 AM P01:05 AM	75.-	85.(	71.3
01:05 AM P02:05 AM	75.3	85.-	73.3
02:05 AM P03:05 AM	75.4	85.8	71.(
03:05 AM P04:05 AM	75.3	84.1	73.1
04:05 AM P05:05 AM	74.8	85.2	72.-
05:05 AM P0- :05 AM	75.0	85.1	73.1
0- :05 AM P07:05 AM	75.3	82.7	73.0
07:05 AM P08:05 AM	75.4	85.3	73.2

Le) Average 8 hrs. dBA66

75.3

Lmax dBA66

85.(

Standard dBA66

(0

140

Reference Method : Based on ISO1(-P1 and 1(-P2

Standard : ปุ สรี สุ ทำ มัคคตวสว้า ำหม ว ำสว้าดัดตามด ว ปไอนนง

ะสว้าปว สอศสว้า วมมะ สด สดตบว ก นใส ะสว้าทวมะ พ. ๒๕๔๖

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Sararat Mongkonjirawut
Scientist 46

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 22854- 1P1

f age 1 o91

Sample Number 2238(30P5
Parameter Noise d.e) 8 hrs.6
Location เครื่องคัดแยกขนาดชิ้นงาน : MCL1
Measurement Date Apr 0- , 2022
Measurement by NarupolThongnuch

Time	Le) ดBqA66	Lmax ดBqA66	L(0 ดBqA66
12:15 AM P01:15 AM	8- .4	100.5	84.-
01:15 AM P02:15 AM	87.3	101.4	8- .2
02:15 AM P03:15 AM	87.2	101.-	8- .3
03:15 AM P04:15 AM	87.2	102.0	8- .3
04:15 AM P05:15 AM	87.0	100.7	8- .3
05:15 AM P0- :15 AM	87.5	100.(	8- .5
0- :15 AM P07:15 AM	87.7	103.0	8- .7
07:15 AM P08:15 AM	88.3	105.4	8- .7

Le) Average 8 hrs. ดBqA66

87.4

Lmax ดBqA66

105.4

Standard ดBqA66

(0

140

Reference Method : Based on ISO1((- P1 and 1((- P2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 22854- 2P1

f age 1 o91

Sample Number 2238(30P-
Parameter Noise d.e) 8 hrs.6
Location เครื่องคัดแยกขนาดชิ้นงาน : MCL2
Measurement Date Apr 0-, 2022
Measurement by NarupolThongnuch

Time	Le) qdBqA66	Lmax qdBqA66	L(0 qdBqA66
12:02 AM P01:02 AM	8-.1	(-.1	80.8
01:02 AM P02:02 AM	85.0	(3.3	81.0
02:02 AM P03:02 AM	85.5	(3.(	81.4
03:02 AM P04:02 AM	8(.5	(-.(.	88.1
04:02 AM P05:02 AM	(0.4	((.8	8(.2
05:02 AM P0- :02 AM	(3.1	(8.(	8(.0
0- :02 AM P07:02 AM	(0.0	((.8	88.-
07:02 AM P08:02 AM	8(.7	101.1	88.2

Le) Average 8 hrs. qdBqA66

8(.4

Lmax qdBqA66

101.1

Standard qdBqA66

(0

140

Reference Method : Based on ISO1((- P1 and 1((- P2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Scientist q46

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238930

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 22854- 4P1

Page 1 of 1

Sample Number 2238(30P8
Parameter Noise d.e) 8 hrs.6
Location เตาอบชุมชน : I T2
Measurement Date Apr 05, 2022
Measurement by NarupolThongnuch

Time	Le) dB(A)	Lmax dB(A)	L(0 dB(A)
10:02 AM P 11:02 AM	80.2	(3.4	77.(
11:02 AM P 12:02 f M	83.1	(0.5	81.-
12:02 f M P 01:02 f M	83.5	(1.1	81.5
01:02 f M P 02:02 f M	83.3	(0.7	81.5
02:02 f M P 03:02 f M	82.(	(0.3	81.5
03:02 f M P 04:02 f M	83.1	(0.4	81.5
04:02 f M P 05:02 f M	82.(	(0.8	81.5
05:02 f M P 0- :02 f M	82.8	(0.0	81.5

Le) Average 8 hrs. dB(A)

82.8

Lmax dB(A)

(3.4

Standard dB(A)

(0

140

Reference Method : Based on CSH1(- P1 and 1(- P2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Sararat Mongkonjirawut
Scientist 46

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238940

Date Received : Apr 06, 2022

Date Reported : Apr 11, 2022

Report Number: 228--3Pf1

Page 1 of 1

Sample Number 2238q40f1
Parameter Noise)LeG 8 hrs.7
Location เตาหลอม MCL4
Measurement Date Apr 0-, 2022
Measurement by NarupolThongnuch

Time	LeG)dB)A77	Lmax)dB)A77	Lq0)dB)A77
10:36 5M f 11:36 5M	68.2	8P.8	61.6
11:36 5M f 12:36 AM	6q.q	q0.6	63.2
12:36 AM f 01:36 AM	80.2	q8.1	62.q
01:36 AM f 02:36 AM	66.P	88.1	P6.0
02:36 AM f 03:36 AM	81.0	q2.6	6-.2
03:36 AM f 04:36 AM	63.0	q2.2	P-.-
04:36 AM f 0-:36 AM	83.-	q4.0	68.1
0-:36 AM f 0P:36 AM	6q.-	q0.1	60.6

LeG Average 8 hrs.)dB)A77

6q.q

Lmax)dB)A77

q8.1

Standard)dB)A77

q0

140

Reference Method : Based on 951 1qqPf1 and 1qqPf2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Sararat Mongkonhrawut
Scientist)47

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238940

Date Received : Apr 06, 2022

Date Reported : Apr 11, 2022

Report Number: 228--36P1

Page 1 of 51

Sample Number 2238(40P2
Parameter Noise d.e) 8 hrs.G
Location ตามประกาศทาง MCL4
Measurement Date Apr 04, 2022
Measurement by NarupolThongnuch

Time	Le) dBqAGG	Lmax dBqAGG	L(0 dBqAGG
07:16 AM P10:16 AM	83.2	(2.0	7(.(
10:16 AM P11:16 AM	80.4	(-.0	7(.-
11:16 AM P12:16 fM	62.8	88.6	76.1
12:16 fM P01:16 fM	76.-	68.7	77.8
01:16 fM P02:16 fM	80.-	(2.6	78.2
02:16 fM P03:16 fM	83.0	112.2	78.8
03:16 fM P04:16 fM	60.(	86.7	77.6
04:16 fM P0-:16 fM	82.0	(2.8	61.0

Le) Average 8 hrs. dBqAGG

80.1

Lmax dBqAGG

112.2

Standard dBqAGG

(0

140

Reference Method : Based on SSI 1((7P1 and 1((7P2

Standard : ปฎิบัติ ส่ว ทำ มัดคดวส้า ำหมั ว ำส่วดัดตามมด ว ปไอนมช

ะสวปฏ สอศสจสววิ นมมะ สด สดตบว ก นไฟ ะสวท่วมะ พ. ๒๕๔๖

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Scientist q4G

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2250394

Date Received : May 03, 2022

Date Reported : May 03, 2022

Report Number: 225-5c5P1

Page 1 of 1

Sample Number 22-0354P1
Parameter Noise (Leq 8 hrs.)
Location เตาอบชุมชน : 6 T4
Measurement Date May 03, 2022
Measurement by Samart Roongan

Time	Leq (dB(A))	Lmax (dB(A))	L50 (dB(A))
08:-8 AM P05:-8 AM	8-.8	55.-	81.-
05:-8 AM P10:-8 AM	8c.0	58.1	82.1
10:-8 AM P11:-8 AM	8-.8	58.2	82.1
11:-8 AM P12:-8 f M	8-.5	51.3	82.1
12:-8 f M P01:-8 f M	84.8	54.2	81.2
01:-8 f M P02:-8 f M	84.1	5c.c	81.3
02:-8 f M P03:-8 f M	83.4	52.1	81.2
03:-8 f M P04:-8 f M	84.1	52.-	81.3

Leq Average 8 hrs. (dB(A))

8-.2

Lmax (dB(A))

55.-

Standard (dB(A))

50

140

Reference Method : Based on GB155cP1 and 155cP2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Sararat Mongkonjirawut
Supervisor

Approved by

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2250438

7ate ReDeived : May 03, 2022

7ate Reported : May 0c, 2022

Report Number: 225c0c8-1

Page 1 of 1

Sample Number 2290438-1
Parameter Noise (Leq 8 hrs.)
Location เตาอบชุมชน : MCL4
Measurement Date May 03, 2022
Measurement by Samart Roongan

Time	Leq (dB(A))	Lmax (dB(A))	L50 (dB(A))
05:22 AM - 10:22 AM	89.6	58.9	83.4
10:22 AM - 11:22 AM	89.0	50.6	83.0
11:22 AM - 12:22 PM	84.4	50.2	82.6
12:22 PM - 01:22 PM	84.4	50.4	82.4
01:22 PM - 02:22 PM	89.8	50.3	84.2
02:22 PM - 03:22 PM	89.c	85.5	84.0
03:22 PM - 04:22 PM	89.1	88.3	83.5
04:22 PM - 09:22 PM	89.2	85.3	83.8

Leq Average 8 hrs. (dB(A))

89.2

Lmax (dB(A))

58.9

Standard (dB(A))

50

140

ReferenDe Method : Based on ISO155c-1 and 155c-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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Supervisor

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2250955

Date Received : May 03, 2022

Date Reported : May 03, 2022

Report Number: 2305-3cP1

Page 1 of 1

Sample Number 2250(55P2
Parameter Noise d.e) 8 hrs.6
Location เตาอบชุมชน : I T3
Measurement Date May 03, 2022
Measurement by Samart Roongan

Time	Le) dBA66	Lmax dBA66	L(0 dBA66
01:01 AM P10:01 AM	88.4	100.2	84.5
10:01 AM P11:01 AM	8(.4	((.2	85.2
11:01 AM P12:01 fM	8(.3	((.5	85.c
12:01 fM P01:01 fM	8(.5	(8.1	85.c
01:01 fM P02:01 fM	88.2	(c.4	84.2
02:01 fM P03:01 fM	8-.2	(5.2	83.(
03:01 fM P04:01 fM	8c.8	(5.c	83.(
04:01 fM P05:01 fM	8-.-	(c.0	84.1

Le) Average 8 hrs. dBA66

88.4

Lmax dBA66

100.2

Standard dBA66

(0

140

Reference Method : Based on CSH1((cP1 and 1((cP2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management

Sararat Mongkonjirawut
Supervisor

Approved by

Supot Salamteh
Section Head

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ภาคผนวก ค-6

ระดับความร้อนในบริเวณการทำงาน



Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149419

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184217-1

Page 1 of 2

Sample Number 21149419-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Jan 19, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณศักดิ์ดา ทองดั่ง แผนก : เตาอบขนม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เตาอบขนมชิ้นงาน : MCL4	30	27.9	25.1	34.5	34.0
Office : HT	90	18.4	16.7	22.3	22.2
Average (WBGT)		20.8			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management


Supot Salamteh
Section Head

Approved by


Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149419

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184217-1

Page 2 of 2

Sample Number 21149419-2
Parameter Heat Stress (Sampling Time : 05.00 PM - 07.00 PM)
Measurement Date Jan 19, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเชิรวัฑ จวง แผนก : เดดาห์ลอม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน้าเดดาห์ลอม : MCL4	40	27.0	24.7	32.2	32.0
ห้องควบคุมเดดาห์ลอม	80	19.4	17.8	23.0	22.8
Average (WBGT)		21.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238933

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 2271968-1

Page 1 of 4

Sample Number 2238933-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Apr 06, 2022
Measurement by Phongsiri Somkaew
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณอนุรักษ พรหมมา แผนก : เตาหลอม MCL1)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน้าเตาหลอม MCL1	20	28.3	25.1	35.7	35.5
ห้องควบคุมเตาหลอม MCL1	100	15.5	13.6	19.8	19.7
Average (WBGT)		17.6			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238933

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 2271968-1

Page 2 of 4

Sample Number 2238933-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Apr 06, 2022
Measurement by Phongsiri Somkaew
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเจตกรชัย คำคม แผนก : เตาหลอม MCL2)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน้าเตาหลอม MCL2	20	28.7	25.4	36.5	36.2
ห้องควบคุมเตาหลอม MCL2	100	22.1	19.6	27.8	27.4
Average (WBGT)		23.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238933

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 2271968-1

Page 3 of 4

Sample Number 2238933-3
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Apr 05, 2022
Measurement by Phongsiri Somkaew
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณสุรินทร์ แก้วตา แผนก : เตาอบขนมปังงาน)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เตาอบขนมปังงาน : HT2	120	26.6	22.8	35.4	34.9
Average (WBGT)		26.6			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management


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Section Head

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238933

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 2271968-1

Page 4 of 4

Sample Number 2238933-4
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Apr 05, 2022
Measurement by Phongsiri Somkaew
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณประวิทย์ คงสถิตย์ แผนก : เตาอบขนมปังงาน)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เตาอบขนมปังงาน : HT4	120	27.8	24.4	35.8	35.8
Average (WBGT)		27.8			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238943

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 227197961

- age 1 of 2

Sample Number 223894361
Parameter Heat Stress Sampling Time : 11.00 - 16.00 AM
Measurement Date Apr 07, 2022
Measurement by - hongsi Somkaew
Location ปฏิบัติงาน พื้นที่ ห้องนิยามสกุล ผู้ปฏิบัติงาน : คุณธนวิชัย นภาพอง แผนก : เตาหลอม MCL4 (

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน้าเตาหลอม : MCL4	20	25.3	23.7	32.3	32.1
ห้องควบคุมเตาหลอม MCL4	100	20.0	18.1	24.3	24.1
Average WBGT		21.0			
Guideline WBGT		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour - Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform H.E. 2) 51
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2529

Technical Management

Supot Salamteh
Section Head

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Wichan Choonharat
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Analysis / Test Report

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238943

Date Received : Apr 07, 2022

Date Reported : Apr 11, 2022

Report Number: 227197961

- age 2 of 2

Sample Number 223894362
Parameter Heat Stress Measurement
Measurement Date Apr 04, 2022
Measurement by - hongsi Somkaew
Location ปฏิบัติงาน 2 พื้นที่ ที่ห้องนามสกุล ผู้ปฏิบัติงาน : คุณเสกพร โรงเลี้ยงช่างทอง แผนก : เตาหลอมชิ้นงาน (

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณเตาอบชิ้นงาน MCL4	40	24.)	21.)	31.4	31.4
บริเวณห้องพนักงานเตาอบชิ้นงาน MCL4	80	19.)	17.8	23.4	23.2
Average WBGT		21.1			
Guideline WBGT		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour - Protection and Welfare on the Criteria and - Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform H.E. 2) 51
- Ministerial Regulation on - Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E. 2529

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149343

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184078-1

Page 1 of 5

Sample Number 21149343-1
Parameter Heat Stress (Sampling Time : 01.50 PM - 03.50 PM)
Measurement Date Jan 18, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณฐาปกรณ์ ทำเจริญรักษ์ แผนก : เตาหลอม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน้าเตาหลอม : MCL1	20	27.9	24.4	36.1	35.7
ห้องควบคุมเตาหลอม	100	16.8	14.7	21.7	21.1
Average (O BWT)		18.7			
Wuideline O BWT (GC)		34.0			

Reference Method : O et Bulb Wobe Temperature

Guideline:

1. Notification of Department Labour Protection and Oelfare on the Criteria and Procedures for Measurement and Analysis of O rking Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of ° ccupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management

Supot Salamteh
Section Head

Approved by

Oichan Choonharat
Assistant Manager

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Analysis / Test Report

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149343

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184078-1

Page 2 of 5

Sample Number 21149343-3
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Jan 18, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณอนุชิต ท้าวประสิทธิ์ แผนก : เตาอบขนม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เตาอบขนมชิ้นงาน : HT2	120	31.2	28.9	36.4	36.2
Average (O BWT)		31.2			
Wuideline O BWT (GC)		34.0			

Reference Method : O et Bulb Wobe Temperature

Guideline:

1. Notification of Department Labour Protection and O elfare on the Criteria and Procedures for Measurement and Analysis of O rking Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of ° ccupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management


Supot Salamteh
Section Head

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O ichan Choonharat
Assistant Manager

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Analysis / Test Report

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14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149343

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184078-1

Page 3 of 5

Sample Number 21149343-4
Parameter Heat Stress (Sampling Time : 01.15 PM - 03.15 PM)
Measurement Date Jan 17, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเสกฤทธิ์ สมขาว แผนก : เตาหลอม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หน้าเตาหลอม : MCL2	20	27.6	24.1	35.8	35.7
ห้องควบคุมเตาหลอม	100	19.1	16.6	24.9	24.7
Average (O BWT)		20.5			
Wuideline O BWT (GC)		34.0			

Reference Method : O et Bulb Wobe Temperature

Guideline:

1. Notification of Department Labour Protection and O elfare on the Criteria and Procedures for Measurement and Analysis of O rking Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of ° ccupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management


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Analysis / Test Report

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14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149343

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184078-1

Page 4 of 5

Sample Number 21149343-5
Parameter Heat Stress (Sampling Time : 01.30 PM - 03.30 PM)
Measurement Date Jan 17, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเอกชัย บันความสุข แผนก : เคาอมขุบ)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เคาอมขุบขันงาน : HT3	120	28.8	26.4	34.5	34.2
Average (O BWT)		28.8			
Wuideline O BWT (GC)		34.0			

Reference Method : O et Bulb Wobe Temperature

Guideline:

1. Notification of Department Labour Protection and O elfare on the Criteria and Procedures for Measurement and Analysis of O rking Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of ° ccupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management


Supot Salamteh
Section Head

Approved by


O ichan Choonharat
Assistant Manager

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149343

Date Received : Jan 21, 2022

Date Reported : Jan 25, 2022

Report Number: 2184078-1

Page 5 of 5

Sample Number 21149343-6
Parameter Heat Stress (Sampling Time : 01.20 PM - 03.20 PM)
Measurement Date Jan 17, 2022
Measurement by Aphiwat Tumnoo
Location ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณศักดิ์สยาม ยอดดสร้าง แผนก : เตาอบขนม)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เตาอบขนมชิ้นงาน : HT4	120	27.8	24.1	36.3	36.0
Average (O BWT)		27.8			
Wuideline O BWT (GC)		34.0			

Reference Method : O et Bulb Wobe Temperature

Guideline:

1. Notification of Department Labour Protection and O elfare on the Criteria and Procedures for Measurement and Analysis of O rking Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of ° ccupational Safety, Health and Environmentin relation to Heat,Light and Noise, B.E.2559

Technical Management


Supot Salamteh
Section Head

Approved by


O ichan Choonharat
Assistant Manager

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ภาคผนวก ค-7

คุณภาพอากาศในสถานประกอบการ



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

Page 1 of 17

Sample Number 21149350-1
Sampled Date Jan 18, 2022
Sample Description Air Quality
Location หน้าเตาหลอม : MCL1
Personal Sampling คุณฐาปกรณ์ ท่าเรือรักษา
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	0.27	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	10:00 AM - 01:00 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	10:00 AM - 12:00 PM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-2
Sampled Date Jan 17, 2022
Sample Description Air Quality
Location หน้าเตาหลอม : MCL2
Personal Sampling คุณสุกฤษฎี สมขาว
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:00 AM - 12:00 PM	mg/m3	-	0.15	0.34	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	10:00 AM - 01:00 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	10:00 AM - 12:00 PM	mg/m3	-	0.002	0.005	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

Remark :

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Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-3
Sampled Date Jan 18, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL1
Personal Sampling คุณวีรภัทร ปรีชาพจน์
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:55 AM - 11:55 AM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	09:55 AM - 12:55 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	09:55 AM - 11:55 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

Remark :

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Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

Page 4 of 17

Sample Number 21149350-4
Sampled Date Jan 17, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL2
Personal Sampling คุณนพดล ไชยมทิพย์
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:55 AM - 11:55 AM	mg/m3	-	0.15	1.97	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	09:55 AM - 12:55 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	09:55 AM - 11:55 AM	mg/m3	-	0.002	0.003	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Tesing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-5
Sampled Date Jan 18, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาด : MCL1
Personal Sampling คุณบุญเรศ ชัยอ่อน
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:50 AM - 11:50 AM	mg/m3	-	0.15	0.20	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	09:50 AM - 12:50 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	09:50 AM - 11:50 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-6
Sampled Date Jan 17, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาด : MCL2
Personal Sampling คุณกาญจนา นุญคำ
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	09:50 AM - 11:50 AM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	09:50 AM - 12:50 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	09:50 AM - 11:50 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

Page 7 of 17

Sample Number 21149350-7
Sampled Date Jan 18, 2022
Sample Description Air Quality
Location เดราหลอม : MCL1
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	10:00 AM - 01:00 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	10:00 AM - 12:00 PM	mg/m ³	-	0.15	0.47	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	10:00 AM - 12:00 PM	mg/m ³	-	0.002	0.003	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
Assistant Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Tesing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-8
Sampled Date Jan 17, 2022
Sample Description Air Quality
Location เดราหลอม : MCL2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	10:00 AM - 01:00 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	10:00 AM - 12:00 PM	mg/m ³	-	0.15	3.22	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	10:00 AM - 12:00 PM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-9
Sampled Date Jan 18, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL1
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	09:55 AM - 12:55 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	09:55 AM - 11:55 AM	mg/m ³	-	0.15	1.36	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	09:55 AM - 11:55 AM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
Assistant Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Tesing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

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Sample Number 21149350-10
Sampled Date Jan 17, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	09:55 AM - 12:55 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	09:55 AM - 11:55 AM	mg/m ³	-	0.15	1.27	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	09:55 AM - 11:55 AM	mg/m ³	-	0.002	0.004	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
Assistant Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Tesing
Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022
Date Reported : Feb 04, 2022
Report Number : 2184088-1

Page 11 of 17

Sample Number 21149350-11
Sampled Date Jan 18, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน : MCL1
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	09:50 AM - 12:50 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	09:50 AM - 11:50 AM	mg/m ³	-	0.15	1.95	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	09:50 AM - 11:50 AM	mg/m ³	-	0.002	0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

Remark :

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Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 21149350

Date Received : Jan 21, 2022

Date Reported : Feb 04, 2022

Report Number : 2184088-1

Page 12 of 17

Sample Number 21149350-12
Sampled Date Jan 17, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน : MCL2
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	09:50 AM - 12:50 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	09:50 AM - 11:50 AM	mg/m ³	-	0.15	1.65	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	09:50 AM - 11:50 AM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree N.

Sawitree Noisangiam
Assistant Manager



Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149427

Date Received : Jan 21, 2022

Date Reported : Feb 17, 2022

Report Number : 2184283-1

Page 1 of 22

Sample Number	21149427-1
Sampled Date	Jan 19, 2022
Sample Description	Air Quality
Location	หน้าเตาหลอม : MCL4
Personal Sampling	คุณธีรวัฒน์ จวง
Date Analysis Commenced	Jan 24, 2022
Condition of Sample	Drawn into three filter papers placed in each cassette
Barometric Pressure	758 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	05:00 PM - 07:00 PM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	05:00 PM - 08:00 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	05:00 PM - 07:00 PM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 21149427

Date Received : Jan 21, 2022

Date Reported : Feb 17, 2022

Report Number : 2184283-1

Page 2 of 22

Sample Number 21149427-2
Sampled Date Jan 19, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL4
Personal Sampling คุณบุญโฮม กิ่งมาลา
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	02:20 PM - 04:20 PM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	02:20 PM - 05:20 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	02:20 PM - 04:20 PM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149427

Date Received : Jan 21, 2022
Date Reported : Feb 17, 2022
Report Number : 2184283-1

Page 3 of 22

Sample Number 21149427-3
Sampled Date Jan 19, 2022
Sample Description Air Quality
Location หน้าเตาหลอม : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	05:00 PM - 08:00 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	05:00 PM - 07:00 PM	mg/m ³	-	0.15	0.42	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	05:00 PM - 07:00 PM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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Sampled By : Aphiwat Tumnoo

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TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 21149427

Date Received : Jan 21, 2022
Date Reported : Feb 17, 2022
Report Number : 2184283-1

Page 4 of 22

Sample Number 21149427-4
Sampled Date Jan 19, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL4
Date Analysis Commenced Jan 24, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 758 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	02:20 PM - 05:20 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	02:40 PM - 04:20 PM	mg/m ³	-	0.15	0.85	15	Based on NIOSH (1994), 0500	OSHA	Bangkok
Metals Testing									
Chromium *	02:40 PM - 04:20 PM	mg/m ³	-	0.002	0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Aphiwat Tumnoo

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271970-1

Page 1 of 16

Sample Number	2238935-1
Sampled Date	Apr 06, 2022
Sample Description	Air Quality
Location	หน้าเตาหลอม : MCL1
Personal Sampling	คุณอนุรักษ์ พรหมมา
Date Analysis Commenced	Apr 08, 2022
Condition of Sample	Drawn into three filter papers placed in each cassette
Barometric Pressure	760 mmHg
Atmospheric Temperature	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	08:45 AM - 10:45 AM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	08:45 AM - 11:45 AM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	08:45 AM - 10:45 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022
Date Reported : May 06, 2022
Report Number : 2271970-1

Page 2 of 16

Sample Number 2238935-2
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location หน้าเตาหลอม : MCL2
Personal Sampling คุณจิตกรชัย คำคม
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	01:00 PM - 03:00 PM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	01:00 PM - 04:00 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	01:00 PM - 03:00 PM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271970-1

Page 3 of 16

Sample Number 2238935-3
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL1
Personal Sampling คุณณัฐพล ชัยเลิศ
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	08:50 AM - 10:50 AM	mg/m3	-	0.15	0.24	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	08:50 AM - 11:50 AM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	08:50 AM - 10:50 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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TESTING
No.0009

Analysis / Test Report

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271970-1

Page 4 of 16

Sample Number 2238935-4
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL2
Personal Sampling คุณชลวิทย์ บุญเหลือ
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	01:05 PM - 03:05 PM	mg/m3	-	0.15	0.45	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	01:05 PM - 04:05 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	01:05 PM - 03:05 PM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271970-1

Page 5 of 16

Sample Number 2238935-5
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาด : MCL1
Personal Sampling คุณณัฐเลิศ ภักย์อ่อน
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	08:56 AM - 10:56 AM	mg/m3	-	0.15	0.52	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	08:56 AM - 11:56 AM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	08:56 AM - 10:56 AM	mg/m3	-	0.002	0.004	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Analysis / Test Report

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No.0009

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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271970-1

Page 6 of 16

Sample Number 2238935-6
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาด : MCL2
Personal Sampling คุณกาญจนา บุญคำ
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	01:13 PM - 03:13 PM	mg/m3	-	0.15	0.48	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	01:13 PM - 04:13 PM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	01:13 PM - 03:13 PM	mg/m3	-	0.002	0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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TESTING
No.0009

Analysis / Test Report

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14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

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Sample Number 2238935-7
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เดราหลอม : MCL1
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	08:45 AM - 11:45 AM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	08:45 AM - 10:45 AM	mg/m ³	-	0.15	0.32	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	08:45 AM - 10:45 AM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

Guideline :

ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2020).

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Approved by

Sawitree N.

Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkhae, Saraburi Thailand 18230

P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022
Date Reported : May 06, 2022
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Sample Number 2238935-8
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เดราหลอม : MCL2
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	01:00 PM - 04:00 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	01:00 PM - 03:00 PM	mg/m ³	-	0.15	0.59	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	01:00 PM - 03:00 PM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Sawitree Noisangiam
Assistant Manager

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TESTING
No.0009

Analysis / Test Report

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

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Sample Number 2238935-9
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL1
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	08:50 AM - 11:50 AM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	08:50 AM - 10:50 AM	mg/m ³	-	0.15	0.50	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	08:50 AM - 10:50 AM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Sawitree Noisangiam
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TESTING
No.0009

Analysis / Test Report

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P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022
Date Reported : May 06, 2022
Report Number : 2271970-1

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Sample Number 2238935-10
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL2
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	01:05 PM - 04:05 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	01:05 PM - 03:05 PM	mg/m ³	-	0.15	0.86	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	01:05 PM - 03:05 PM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Sawitree Noisangiam
Assistant Manager

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Analysis / Test Report

TESTING
No.0009

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

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Sample Number 2238935-11
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน : MCL1
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	08:56 AM - 11:56 AM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	08:56 AM - 10:56 AM	mg/m ³	-	0.15	2.31	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	08:56 AM - 10:56 AM	mg/m ³	-	0.002	0.01	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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TESTING
No.0009

Analysis / Test Report

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P/O :

Project Name : Environmental Testing

Project Location :

Lot ID: 2238935

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271970-1

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Sample Number 2238935-12
Sampled Date Apr 06, 2022
Sample Description Air Quality
Location เครื่องคัดแยกขนาดชั้นงาน : MCL2
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	01:13 PM - 04:13 PM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	01:13 PM - 03:13 PM	mg/m ³	-	0.15	2.18	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	01:13 PM - 03:13 PM	mg/m ³	-	0.002	0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Analysis / Test Report

TESTING
No.0009

Client : Magotteaux Co., Ltd.
14 Moo 3, Suwannasorn Rd., Bualoy, Nongkae, Saraburi Thailand 18230

P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238944

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271980-1

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Sample Number	2238944-1
Sampled Date	Apr 05, 2022
Sample Description	Air Quality
Location	หน้าเตาหลอม : MCL4
Personal Sampling	คุณธนัชชัย นภาพอง
Date Analysis Commenced	Apr 08, 2022
Condition of Sample	Drawn into three filter papers placed in each cassette
Barometric Pressure	760 mmHg
Atmospheric Temperature	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	10:30 PM - 00:30 AM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	10:30 PM - 01:30 AM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	10:30 PM - 00:30 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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TESTING
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P/O :

Project Name : Environmental Tesing

Project Location :

Lot ID: 2238944

Date Received : Apr 07, 2022

Date Reported : May 06, 2022

Report Number : 2271980-1

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Sample Number 2238944-2
Sampled Date Apr 05, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL4
Personal Sampling คุณคมสัน อินทร์ชมชื่น
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	08:45 AM - 10:45 AM	mg/m3	-	0.15	<0.15	5	Based on NIOSH (1998), 0600	OSHA	Bangkok
Silica (SiO ₂) *	08:45 AM - 11:45 AM	mg/m3	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Metals Testing									
Chromium *	08:45 AM - 10:45 AM	mg/m3	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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Analysis / Test Report

TESTING
No.0009

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P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 2238944

Date Received : Apr 07, 2022
Date Reported : May 06, 2022
Report Number : 2271980-1

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Sample Number 2238944-3
Sampled Date Apr 05, 2022
Sample Description Air Quality
Location หน้าเตาหลอม : MCL4
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	10:30 PM - 01:30 AM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	10:30 PM - 00:30 AM	mg/m ³	-	0.15	0.54	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	10:30 PM - 00:30 AM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

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Analysis / Test Report

TESTING
No.0009

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P/O :
Project Name : Environmental Testing
Project Location :

Lot ID: 2238944

Date Received : Apr 07, 2022
Date Reported : May 06, 2022
Report Number : 2271980-1

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Sample Number 2238944-4
Sampled Date Apr 05, 2022
Sample Description Air Quality
Location เครื่องปั้นแบบทราย : MCL4
Date Analysis Commenced Apr 08, 2022
Condition of Sample Drawn into three filter papers placed in each cassette
Barometric Pressure 760 mmHg
Atmospheric Temperature 31.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Silica (SiO ₂) *	08:45 AM - 11:45 AM	mg/m ³	-	0.020	<0.020	0.025 (R)	NIOSH (1994), 7601	MOL	Bangkok
Total dust	08:45 AM - 10:45 AM	mg/m ³	-	0.15	0.59	15	Based on NIOSH (1994), 0501	OSHA	Bangkok
Metals Testing									
Chromium *	08:45 AM - 10:45 AM	mg/m ³	-	0.002	<0.002	0.5	NIOSH (2003), 7301	ACGIH	Bangkok

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OSHA : Occupational Safety and Health Administration

Sampled By : Phongsiri Somkaew

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