

ภาคผนวก ค

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ใบรับรองผลการวิเคราะห์

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 1 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-1   |
| <b>Sampled Date</b>            | Jul 14, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดป่าพิชัยพรต (A1) (GPS 47P 0697324, 1615137)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.005     | 0.036  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.005     | 0.039  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

### Remark :

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 2 of 21

**Sample Number** 2381408-2  
**Sampled Date** Jul 15, 2023  
**Sample Description** Air Quality  
**Location** วัดป่าพิชญ์พรต (A1) (GPS 47P 0697324, 1615137)  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.005     | 0.024  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.005     | 0.029  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

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TESTING  
No.0009

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 3 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-3   |
| <b>Sampled Date</b>            | Jul 16, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 32.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.005     | 0.030  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.005     | 0.052  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

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**Sampled By :** Vanich Phanpipit

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 4 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-4   |
| <b>Sampled Date</b>            | Jul 17, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.005     | 0.016  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.005     | 0.028  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

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**Sampled By :** Vanich Phanpipit

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 5 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-5   |
| <b>Sampled Date</b>            | Jul 18, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดป่าพิชัยพรต (A1) (GPS 47P 0697324, 1615137)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.005     | 0.023  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.005     | 0.040  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

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Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 6 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-6   |
| <b>Sampled Date</b>            | Jul 19, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time  | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|--------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                    |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 19/07/23 - 20/7/23 | mg/m3 | -   | 0.005     | 0.028  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 19/07/23 - 20/7/23 | mg/m3 | -   | 0.005     | 0.047  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                    |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 19/07/23 - 20/7/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

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Sawitree Noisangiam  
Manager





## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 7 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-7   |
| <b>Sampled Date</b>            | Jul 20, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดป่าพิชัยพรต (A1) (GPS 47P 0697324, 1615137)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.005     | 0.030  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.005     | 0.037  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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Sawitree Noisangiam  
Manager



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No.0009

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

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Report Number : 2715031-1

Page 8 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-8   |
| <b>Sampled Date</b>            | Jul 14, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | บ้านแพะ (A2) (GPS 47P 0696687, 1616593)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 34.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.005     | 0.022  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.005     | 0.033  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

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Sawitree Noisangiam  
Manager



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No.0009

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023  
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Report Number : 2715031-1

Page 9 of 21

**Sample Number** 2381408-9  
**Sampled Date** Jul 15, 2023  
**Sample Description** Air Quality  
**Location** บ้านแพะ (A2) (GPS 47P 0696687, 1616593)  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 34.0 °C

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.005     | 0.020  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.005     | 0.030  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 10 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-10  |
| <b>Sampled Date</b>            | Jul 16, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | บ้านแพะ (A2) (GPS 47P 0696687, 1616593)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 34.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.005     | 0.020  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.005     | 0.043  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 11 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-11  |
| <b>Sampled Date</b>            | Jul 17, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | บ้านแพะ (A2) (GPS 47P 0696687, 1616593)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.005     | 0.013  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.005     | 0.028  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 12 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-12  |
| <b>Sampled Date</b>            | Jul 18, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | บ้านแพะ (A2) (GPS 47P 0696687, 1616593)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.005     | 0.025  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.005     | 0.066  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

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Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 13 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-13  |
| <b>Sampled Date</b>            | Jul 19, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | บ้านแพะ (A2) (GPS 47P 0696687, 1616593)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 19/07/23 - 20/07/23 | mg/m3 | -   | 0.005     | 0.032  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 19/07/23 - 20/07/23 | mg/m3 | -   | 0.005     | 0.079  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 19/07/23 - 20/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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Manager

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 14 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-14  |
| <b>Sampled Date</b>            | Jul 20, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | บ้านแพะ (A2) (GPS 47P 0696687, 1616593)   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.005     | 0.029  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.005     | 0.052  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

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*Sawitree N.*

Sawitree Noisangiam  
Manager





## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 15 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-15  |
| <b>Sampled Date</b>            | Jul 14, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 35.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.005     | 0.020  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.005     | 0.039  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 14/07/23 - 15/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 16 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-16  |
| <b>Sampled Date</b>            | Jul 15, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 35.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.005     | 0.019  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.005     | 0.034  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 15/07/23 - 16/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 17 of 21

**Sample Number** 2381408-17  
**Sampled Date** Jul 16, 2023  
**Sample Description** Air Quality  
**Location** วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 34.0 °C

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.005     | 0.017  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.005     | 0.036  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 16/07/23 - 17/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

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Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

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9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023  
Date Reported : Aug 07, 2023  
Report Number : 2715031-1

Page 18 of 21

**Sample Number** 2381408-18  
**Sampled Date** Jul 17, 2023  
**Sample Description** Air Quality  
**Location** วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.005     | 0.013  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.005     | 0.029  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 17/07/23 - 18/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 19 of 21

**Sample Number** 2381408-19  
**Sampled Date** Jul 18, 2023  
**Sample Description** Air Quality  
**Location** วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.005     | 0.018  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.005     | 0.038  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 18/07/23 - 19/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpinit

Remark :

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023  
Date Reported : Aug 07, 2023  
Report Number : 2715031-1

Page 20 of 21

**Sample Number** 2381408-20  
**Sampled Date** Jul 19, 2023  
**Sample Description** Air Quality  
**Location** วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 19/07/23 - 20/07/23 | mg/m3 | -   | 0.005     | 0.017  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 19/07/23 - 20/07/23 | mg/m3 | -   | 0.005     | 0.047  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 19/07/23 - 20/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

### Remark :

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

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381408**

Date Received : Jul 24, 2023

Date Reported : Aug 07, 2023

Report Number : 2715031-1

Page 21 of 21

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381408-21  |
| <b>Sampled Date</b>            | Jul 20, 2023  |
| <b>Sample Description</b>      | Air Quality   |
| <b>Location</b>                | วัดหนองถ่านเหนือ (A3) (GPS 47P 0695360, 1615739)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass filter paper (8x10 inch) placed in plastic bag |
| <b>Barometric Pressure</b>     | 754 mmHg  |
| <b>Atmospheric Temperature</b> | 33.0 °C   |

| Analyte                     | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline         | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-------------------|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |                 |  |                   |                  |
| Particulate matter as PM 10 | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.005     | 0.025  | 0.12            | US EPA 40 CFR Part 50, Appendix J  | NEB No.24 Bangkok |                  |
| Total Suspended Particulate | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.005     | 0.045  | 0.33            | US EPA 40 CFR Part 50, Appendix B  | NEB No.24 Bangkok |                  |
| <b>Metals Testing</b>       |                     |       |     |           |        |                 |  |                   |                  |
| Iron as FeO2 *              | 20/07/23 - 21/07/23 | mg/m3 | -   | 0.02      | <0.02  | No Standard     | United States Environmental Protection Agency, EPA IO Compendium Method IO-3.4 | -                 | Bangkok          |

### Guideline :

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

**Sampled By :** Vanich Phanpipit

Remark :

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

Sawitree Noisangiam  
Manager



## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381306**

Date Received : Jul 24, 2023

Date Reported : Jul 31, 2023

Report Number: 2715027-1

Page 1 of 1

|                           |   |              |              |              |              |              |              |
|---------------------------|---|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Sample Description</b> | Air Quality                             |              |              |              |              |              |              |
| <b>Location</b>           | บ้านแพะ (A2) (GPS 47P 0696687, 1616593) |              |              |              |              |              |              |
| <b>Parameter</b>          | Nitrogen dioxide (ppm)                  |              |              |              |              |              |              |
| <b>Measurement Date</b>   | Jul 14, 2023 - Jul 21, 2023             |              |              |              |              |              |              |
| <b>Measurement by</b>     | Vanich Phanpipit                        |              |              |              |              |              |              |
|                           | 2381306-8                               | 2381306-9    | 2381306-10   | 2381306-11   | 2381306-12   | 2381306-13   | 2381306-14   |
| Time                      | Jul 14, 2023                            | Jul 15, 2023 | Jul 16, 2023 | Jul 17, 2023 | Jul 18, 2023 | Jul 19, 2023 | Jul 20, 2023 |
| 11:00 AM - 12:00 PM       | 0.007                                   | 0.004        | 0.005        | 0.003        | 0.012        | 0.005        | 0.004        |
| 12:00 PM - 01:00 PM       | 0.007                                   | 0.002        | 0.006        | 0.002        | 0.004        | 0.004        | 0.004        |
| 01:00 PM - 02:00 PM       | 0.006                                   | 0.003        | 0.006        | 0.001        | 0.010        | 0.003        | 0.002        |
| 02:00 PM - 03:00 PM       | 0.006                                   | 0.001        | 0.005        | 0.005        | 0.008        | 0.002        | 0.001        |
| 03:00 PM - 04:00 PM       | 0.003                                   | 0.004        | 0.002        | 0.002        | 0.004        | 0.002        | 0.002        |
| 04:00 PM - 05:00 PM       | 0.003                                   | 0.004        | 0.002        | 0.001        | 0.005        | 0.003        | 0.002        |
| 05:00 PM - 06:00 PM       | 0.003                                   | 0.004        | 0.002        | 0.004        | 0.007        | 0.003        | 0.002        |
| 06:00 PM - 07:00 PM       | 0.005                                   | 0.004        | 0.001        | 0.003        | 0.008        | 0.002        | 0.002        |
| 07:00 PM - 08:00 PM       | 0.002                                   | 0.003        | 0.002        | 0.002        | 0.008        | 0.002        | 0.002        |
| 08:00 PM - 09:00 PM       | 0.002                                   | 0.003        | 0.002        | 0.004        | 0.007        | 0.002        | 0.002        |
| 09:00 PM - 10:00 PM       | 0.002                                   | 0.003        | 0.003        | 0.006        | 0.007        | 0.005        | 0.002        |
| 10:00 PM - 11:00 PM       | 0.002                                   | 0.003        | 0.003        | 0.010        | 0.009        | 0.004        | <0.001       |
| 11:00 PM - 12:00 AM       | 0.005                                   | 0.004        | 0.003        | 0.008        | 0.005        | 0.004        | <0.001       |
| 12:00 AM - 01:00 AM       | 0.003                                   | 0.005        | 0.002        | 0.003        | 0.006        | 0.003        | 0.004        |
| 01:00 AM - 02:00 AM       | 0.003                                   | 0.008        | 0.001        | 0.007        | 0.005        | 0.002        | 0.002        |
| 02:00 AM - 03:00 AM       | 0.003                                   | 0.005        | 0.002        | 0.006        | 0.003        | 0.002        | 0.002        |
| 03:00 AM - 04:00 AM       | 0.003                                   | 0.005        | 0.001        | 0.004        | 0.003        | 0.003        | 0.002        |
| 04:00 AM - 05:00 AM       | 0.002                                   | 0.004        | 0.002        | 0.002        | 0.002        | 0.004        | 0.003        |
| 05:00 AM - 06:00 AM       | 0.003                                   | 0.003        | 0.002        | 0.002        | 0.002        | 0.004        | 0.004        |
| 06:00 AM - 07:00 AM       | 0.004                                   | 0.002        | 0.004        | 0.003        | 0.002        | 0.003        | 0.003        |
| 07:00 AM - 08:00 AM       | 0.002                                   | 0.002        | 0.003        | 0.003        | 0.004        | 0.003        | 0.002        |
| 08:00 AM - 09:00 AM       | 0.003                                   | 0.002        | 0.005        | 0.002        | 0.004        | 0.003        | 0.002        |
| 09:00 AM - 10:00 AM       | 0.003                                   | 0.001        | 0.003        | 0.010        | 0.004        | 0.003        | 0.002        |
| 10:00 AM - 11:00 AM       | 0.004                                   | 0.003        | 0.002        | 0.011        | 0.004        | 0.003        | 0.002        |
| Average                   | 0.004                                   | 0.003        | 0.003        | 0.004        | 0.006        | 0.003        | 0.002        |
| 1hr - Maximum             | 0.007                                   | 0.008        | 0.006        | 0.011        | 0.012        | 0.005        | 0.004        |
| Standard 1hr - Average    | 0.170                                   | 0.170        | 0.170        | 0.170        | 0.170        | 0.170        | 0.170        |

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

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

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*Saranya C.*

Saranya Chalermthamrong

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381306**

Date Received : Jul 24, 2023

Date Reported : Jul 31, 2023

Report Number: 2733008-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jul 14, 2023 - Jul 21, 2023  
**Measurement by** Vanich Phanpipit

|                        | 2381306-1<br>Jul 14, 2023 | 2381306-2<br>Jul 15, 2023 | 2381306-3<br>Jul 16, 2023 | 2381306-4<br>Jul 17, 2023 | 2381306-5<br>Jul 18, 2023 | 2381306-6<br>Jul 19, 2023 | 2381306-7<br>Jul 20, 2023 |
|------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Time                   |                           |                           |                           |                           |                           |                           |                           |
| 10:00 AM - 11:00 AM    | 0.004                     | 0.006                     | 0.002                     | <0.001                    | 0.004                     | 0.003                     | 0.001                     |
| 11:00 AM - 12:00 PM    | 0.003                     | 0.005                     | 0.003                     | 0.002                     | 0.005                     | 0.002                     | 0.001                     |
| 12:00 PM - 01:00 PM    | 0.002                     | 0.003                     | 0.003                     | 0.002                     | 0.002                     | 0.003                     | 0.003                     |
| 01:00 PM - 02:00 PM    | 0.002                     | 0.003                     | 0.002                     | 0.001                     | 0.004                     | 0.002                     | 0.003                     |
| 02:00 PM - 03:00 PM    | 0.002                     | 0.004                     | 0.002                     | 0.007                     | 0.006                     | 0.004                     | 0.003                     |
| 03:00 PM - 04:00 PM    | 0.004                     | 0.003                     | 0.004                     | 0.007                     | 0.003                     | 0.006                     | 0.002                     |
| 04:00 PM - 05:00 PM    | 0.004                     | 0.004                     | 0.003                     | 0.003                     | 0.002                     | 0.007                     | 0.002                     |
| 05:00 PM - 06:00 PM    | 0.004                     | 0.005                     | 0.003                     | 0.002                     | <0.001                    | 0.004                     | 0.002                     |
| 06:00 PM - 07:00 PM    | 0.004                     | 0.005                     | 0.003                     | 0.003                     | <0.001                    | 0.008                     | 0.002                     |
| 07:00 PM - 08:00 PM    | 0.003                     | 0.004                     | 0.004                     | 0.002                     | <0.001                    | 0.009                     | 0.005                     |
| 08:00 PM - 09:00 PM    | 0.002                     | 0.003                     | 0.004                     | 0.005                     | 0.001                     | 0.006                     | 0.003                     |
| 09:00 PM - 10:00 PM    | 0.002                     | 0.002                     | 0.003                     | 0.007                     | 0.002                     | 0.005                     | 0.004                     |
| 10:00 PM - 11:00 PM    | 0.002                     | 0.003                     | 0.002                     | 0.005                     | 0.003                     | 0.004                     | 0.002                     |
| 11:00 PM - 12:00 AM    | 0.003                     | 0.003                     | 0.002                     | 0.005                     | 0.003                     | 0.004                     | 0.003                     |
| 12:00 AM - 01:00 AM    | 0.003                     | 0.003                     | 0.001                     | 0.004                     | 0.006                     | 0.005                     | 0.003                     |
| 01:00 AM - 02:00 AM    | 0.003                     | 0.003                     | 0.002                     | 0.003                     | 0.003                     | 0.005                     | 0.002                     |
| 02:00 AM - 03:00 AM    | 0.005                     | 0.005                     | 0.003                     | 0.003                     | 0.006                     | 0.005                     | 0.002                     |
| 03:00 AM - 04:00 AM    | 0.005                     | 0.005                     | 0.003                     | 0.005                     | 0.006                     | 0.008                     | 0.004                     |
| 04:00 AM - 05:00 AM    | 0.004                     | 0.004                     | 0.005                     | 0.008                     | 0.003                     | 0.006                     | 0.003                     |
| 05:00 AM - 06:00 AM    | 0.002                     | 0.004                     | 0.004                     | 0.006                     | 0.002                     | 0.003                     | 0.004                     |
| 06:00 AM - 07:00 AM    | 0.002                     | 0.003                     | 0.003                     | 0.006                     | 0.001                     | 0.004                     | 0.004                     |
| 07:00 AM - 08:00 AM    | 0.002                     | 0.003                     | 0.002                     | 0.007                     | 0.002                     | 0.002                     | 0.004                     |
| 08:00 AM - 09:00 AM    | 0.003                     | 0.005                     | 0.001                     | 0.006                     | 0.004                     | 0.002                     | 0.002                     |
| 09:00 AM - 10:00 AM    | 0.004                     | 0.004                     | <0.001                    | 0.005                     | 0.004                     | 0.001                     | 0.002                     |
| Average                | 0.003                     | 0.004                     | 0.003                     | 0.004                     | 0.003                     | 0.004                     | 0.003                     |
| 1hr - Maximum          | 0.005                     | 0.006                     | 0.005                     | 0.008                     | 0.006                     | 0.009                     | 0.005                     |
| Standard 1hr - Average | 0.170                     | 0.170                     | 0.170                     | 0.170                     | 0.170                     | 0.170                     | 0.170                     |

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

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

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Saranya Chalermthamrong

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381306**

Date Received : Jul 24, 2023

Date Reported : Jul 31, 2023

Report Number: 2733009-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Jul 14, 2023 - Jul 21, 2023  
**Measurement by** Vanich Phanpipit

|                        | 2381306-15<br>Jul 14, 2023 | 2381306-16<br>Jul 15, 2023 | 2381306-17<br>Jul 16, 2023 | 2381306-18<br>Jul 17, 2023 | 2381306-19<br>Jul 18, 2023 | 2381306-20<br>Jul 19, 2023 | 2381306-21<br>Jul 20, 2023 |
|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Time                   |                            |                            |                            |                            |                            |                            |                            |
| 12:00 PM - 01:00 PM    | 0.011                      | 0.030                      | 0.028                      | 0.028                      | 0.028                      | 0.030                      | 0.030                      |
| 01:00 PM - 02:00 PM    | 0.010                      | 0.025                      | 0.026                      | 0.030                      | 0.029                      | 0.028                      | 0.031                      |
| 02:00 PM - 03:00 PM    | 0.012                      | 0.016                      | 0.024                      | 0.030                      | 0.031                      | 0.027                      | 0.029                      |
| 03:00 PM - 04:00 PM    | 0.012                      | 0.015                      | 0.024                      | 0.030                      | 0.033                      | 0.026                      | 0.027                      |
| 04:00 PM - 05:00 PM    | 0.012                      | 0.014                      | 0.022                      | 0.026                      | 0.029                      | 0.027                      | 0.025                      |
| 05:00 PM - 06:00 PM    | 0.012                      | 0.013                      | 0.023                      | 0.027                      | 0.028                      | 0.029                      | 0.028                      |
| 06:00 PM - 07:00 PM    | 0.012                      | 0.009                      | 0.028                      | 0.033                      | 0.032                      | 0.035                      | 0.032                      |
| 07:00 PM - 08:00 PM    | 0.012                      | 0.006                      | 0.033                      | 0.035                      | 0.034                      | 0.039                      | 0.036                      |
| 08:00 PM - 09:00 PM    | 0.012                      | 0.022                      | 0.034                      | 0.035                      | 0.036                      | 0.038                      | 0.039                      |
| 09:00 PM - 10:00 PM    | 0.012                      | 0.032                      | 0.034                      | 0.035                      | 0.037                      | 0.038                      | 0.038                      |
| 10:00 PM - 11:00 PM    | 0.010                      | 0.030                      | 0.032                      | 0.034                      | 0.035                      | 0.037                      | 0.038                      |
| 11:00 PM - 12:00 AM    | 0.009                      | 0.028                      | 0.031                      | 0.033                      | 0.034                      | 0.035                      | 0.036                      |
| 12:00 AM - 01:00 AM    | 0.009                      | 0.029                      | 0.032                      | 0.035                      | 0.035                      | 0.036                      | 0.036                      |
| 01:00 AM - 02:00 AM    | 0.009                      | 0.030                      | 0.033                      | 0.035                      | 0.034                      | 0.036                      | 0.035                      |
| 02:00 AM - 03:00 AM    | 0.009                      | 0.030                      | 0.033                      | 0.034                      | 0.033                      | 0.036                      | 0.035                      |
| 03:00 AM - 04:00 AM    | 0.009                      | 0.031                      | 0.032                      | 0.035                      | 0.035                      | 0.037                      | 0.034                      |
| 04:00 AM - 05:00 AM    | 0.008                      | 0.029                      | 0.032                      | 0.034                      | 0.034                      | 0.036                      | 0.034                      |
| 05:00 AM - 06:00 AM    | 0.008                      | 0.030                      | 0.032                      | 0.034                      | 0.033                      | 0.035                      | 0.034                      |
| 06:00 AM - 07:00 AM    | 0.010                      | 0.032                      | 0.032                      | 0.036                      | 0.036                      | 0.036                      | 0.034                      |
| 07:00 AM - 08:00 AM    | 0.010                      | 0.034                      | 0.034                      | 0.037                      | 0.037                      | 0.038                      | 0.035                      |
| 08:00 AM - 09:00 AM    | 0.010                      | 0.034                      | 0.034                      | 0.038                      | 0.039                      | 0.038                      | 0.036                      |
| 09:00 AM - 10:00 AM    | 0.010                      | 0.033                      | 0.034                      | 0.037                      | 0.035                      | 0.037                      | 0.036                      |
| 10:00 AM - 11:00 AM    | 0.008                      | 0.022                      | 0.032                      | 0.032                      | 0.031                      | 0.032                      | 0.020                      |
| 11:00 AM - 12:00 PM    | 0.009                      | 0.028                      | 0.027                      | 0.029                      | 0.029                      | 0.028                      | 0.021                      |
| Average                | 0.010                      | 0.025                      | 0.030                      | 0.033                      | 0.033                      | 0.034                      | 0.032                      |
| 1hr - Maximum          | 0.012                      | 0.034                      | 0.034                      | 0.038                      | 0.039                      | 0.039                      | 0.039                      |
| Standard 1hr - Average | 0.170                      | 0.170                      | 0.170                      | 0.170                      | 0.170                      | 0.170                      | 0.170                      |

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

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

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

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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## Analysis / Test Report

**Client** : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** :

**Project Name** :

**Project Location** :

**Lot ID** : 2381409

Date Received : Jul 24, 2023

Date Reported : Jul 27, 2023

Report Number : 2715036-1

Page 1 of 2

**Sample Number** : 2381409-1 to 7  
**Parameter** : Wind Speed / Wind Direction  
**Location** : วัดป่าเพ็ญพรต (A1) (GPS 47P 0697324, 1615137)  
**Sampling Date** : Jul 14 - Jul 21, 2023  
**Sampling by** : Vanich Phanpinit

| Time                | Jul 14 - Jul 15, 2023 |             |     | Jul 15 - Jul 16, 2023 |             |     | Jul 16 - Jul 17, 2023 |             |     | Jul 17 - Jul 18, 2023 |             |     | Jul 18 - Jul 19, 2023 |             |     | Jul 19 - Jul 20, 2023 |             |     | Jul 20 - Jul 21, 2023 |             |     |
|---------------------|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|
|                     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     |
| 10:00 AM - 11:00 AM | 3.3                   | 302.0       | WNW | 2.3                   | 269.0       | W   | 0.8                   | 272.0       | W   | 2.9                   | 294.0       | WNW | 2.7                   | 275.0       | W   | 2.8                   | 270.0       | W   | 0.3                   | 308.0       | NW  |
| 11:00 AM - 12:00 PM | 1.4                   | 280.0       | W   | 0.6                   | 49.0        | NE  | 1.2                   | 252.0       | WSW | 2.7                   | 251.0       | WSW | 1.6                   | 340.0       | NNW | 1.6                   | 255.0       | WSW | 0.4                   | 334.0       | NNW |
| 12:00 PM - 01:00 PM | 1.8                   | 308.0       | NW  | 1.2                   | 346.0       | NNW | 1.1                   | 255.0       | WSW | 1.1                   | 271.0       | W   | 1.0                   | 261.0       | W   | 1.5                   | 315.0       | NW  | 2.1                   | 283.0       | WNW |
| 01:00 PM - 02:00 PM | 2.1                   | 277.0       | W   | 0.9                   | 279.0       | W   | 2.2                   | 326.0       | NW  | 1.9                   | 259.0       | W   | 0.6                   | 268.0       | W   | 1.9                   | 264.0       | W   | 0.7                   | 306.0       | NW  |
| 02:00 PM - 03:00 PM | 0.9                   | 307.0       | NW  | 1.2                   | 278.0       | W   | 1.8                   | 277.0       | W   | 2.3                   | 261.0       | W   | 2.8                   | 280.0       | W   | 3.9                   | 255.0       | WSW | 1.1                   | 286.0       | WNW |
| 03:00 PM - 04:00 PM | 0.9                   | 268.0       | W   | 3.0                   | 267.0       | W   | 1.6                   | 272.0       | W   | 2.3                   | 264.0       | W   | 0.8                   | 265.0       | W   | 2.0                   | 256.0       | WSW | 0.4                   | 330.0       | NNW |
| 04:00 PM - 05:00 PM | 0.8                   | 335.0       | NNW | 1.8                   | 271.0       | W   | 1.9                   | 274.0       | W   | 5.1                   | 272.0       | W   | 1.1                   | 269.0       | W   | 1.8                   | 262.0       | W   | 0.8                   | 289.0       | WNW |
| 05:00 PM - 06:00 PM | 1.3                   | 272.0       | W   | 1.8                   | 282.0       | WNW | 0.7                   | 276.0       | W   | 1.3                   | 268.0       | W   | 3.6                   | 262.0       | W   | 1.9                   | 267.0       | W   | 0.1                   | -           | -   |
| 06:00 PM - 07:00 PM | 0.7                   | 272.0       | W   | 1.3                   | 268.0       | W   | 0.2                   | -           | -   | 1.4                   | 271.0       | W   | 2.0                   | 263.0       | W   | 1.2                   | 270.0       | W   | 0.7                   | 288.0       | WNW |
| 07:00 PM - 08:00 PM | 2.2                   | 262.0       | W   | 2.0                   | 272.0       | W   | 0.1                   | -           | -   | 1.7                   | 284.0       | WNW | 1.6                   | 270.0       | W   | 0.7                   | 278.0       | W   | 0.3                   | 264.0       | W   |
| 08:00 PM - 09:00 PM | 1.1                   | 269.0       | W   | 1.5                   | 248.0       | WSW | 3.3                   | 254.0       | WSW | 1.9                   | 266.0       | W   | 0.5                   | 273.0       | W   | 0.6                   | 278.0       | W   | 0.0                   | -           | -   |
| 09:00 PM - 10:00 PM | 0.4                   | 279.0       | W   | 1.9                   | 267.0       | W   | 3.8                   | 262.0       | W   | 1.2                   | 271.0       | W   | 0.8                   | 264.0       | W   | 0.6                   | 270.0       | W   | 0.0                   | -           | -   |
| 10:00 PM - 11:00 PM | 1.1                   | 277.0       | W   | 1.5                   | 274.0       | W   | 2.4                   | 277.0       | W   | 0.7                   | 271.0       | W   | 0.7                   | 264.0       | W   | 0.9                   | 269.0       | W   | 0.6                   | 249.0       | WSW |
| 11:00 PM - 12:00 AM | 0.6                   | 292.0       | WNW | 2.3                   | 264.0       | W   | 1.2                   | 270.0       | W   | 0.1                   | -           | -   | 0.3                   | 264.0       | W   | 0.7                   | 262.0       | W   | 0.0                   | -           | -   |
| 12:00 AM - 01:00 AM | 0.2                   | -           | -   | 0.5                   | 261.0       | W   | 2.7                   | 274.0       | W   | 0.4                   | 263.0       | W   | 0.3                   | 264.0       | W   | 1.0                   | 274.0       | W   | 0.5                   | 264.0       | W   |
| 01:00 AM - 02:00 AM | 0.9                   | 255.0       | WSW | 1.1                   | 263.0       | W   | 0.2                   | -           | -   | 0.4                   | 278.0       | W   | 0.9                   | 264.0       | W   | 0.3                   | 274.0       | W   | 0.0                   | -           | -   |
| 02:00 AM - 03:00 AM | 0.0                   | -           | -   | 0.7                   | 250.0       | WSW | 0.0                   | -           | -   | 0.9                   | 278.0       | W   | 0.5                   | 264.0       | W   | 0.0                   | -           | -   | 0.0                   | -           | -   |
| 03:00 AM - 04:00 AM | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.8                   | 278.0       | W   | 0.9                   | 264.0       | W   | 0.0                   | -           | -   | 0.0                   | -           | -   |
| 04:00 AM - 05:00 AM | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.0                   | -           | -   | 1.0                   | 277.0       | W   | 0.6                   | 262.0       | W   | 0.0                   | -           | -   | 0.0                   | -           | -   |
| 05:00 AM - 06:00 AM | 0.0                   | -           | -   | 0.4                   | 292.0       | WNW | 0.0                   | -           | -   | 0.0                   | -           | -   | 1.2                   | 267.0       | W   | 0.0                   | -           | -   | 0.0                   | -           | -   |
| 06:00 AM - 07:00 AM | 1.5                   | 256.0       | WSW | 0.1                   | -           | -   | 0.5                   | 271.0       | W   | 0.7                   | 277.0       | W   | 2.9                   | 270.0       | W   | 0.0                   | -           | -   | 0.0                   | -           | -   |
| 07:00 AM - 08:00 AM | 1.4                   | 263.0       | W   | 1.8                   | 275.0       | W   | 2.3                   | 266.0       | W   | 0.7                   | 281.0       | W   | 0.9                   | 256.0       | WSW | 0.0                   | -           | -   | 0.7                   | 266.0       | W   |
| 08:00 AM - 09:00 AM | 1.6                   | 270.0       | W   | 1.3                   | 267.0       | W   | 1.6                   | 268.0       | W   | 2.3                   | 264.0       | W   | 3.5                   | 268.0       | W   | 1.2                   | 274.0       | W   | 0.9                   | 262.0       | W   |
| 09:00 AM - 10:00 AM | 1.0                   | 330.0       | NNW | 1.7                   | 260.0       | W   | 1.1                   | 252.0       | WSW | 3.3                   | 268.0       | W   | 0.8                   | 261.0       | W   | 0.6                   | 339.0       | NNW | 0.3                   | 260.0       | W   |

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.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** :

**Project Name** :

**Project Location** :

**Lot ID** : 2381409

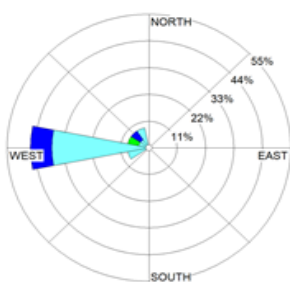
Date Received : Jul 24, 2023

Date Reported : Jul 27, 2023

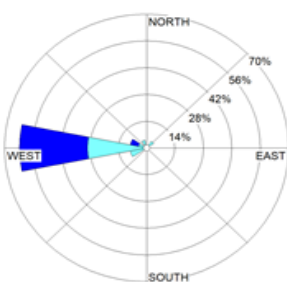
Report Number : 2715036-1

Page 2 of 2

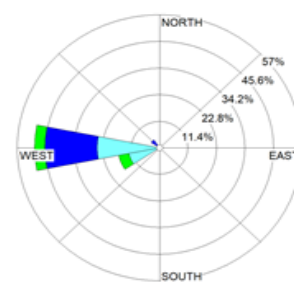
### Wind Rose



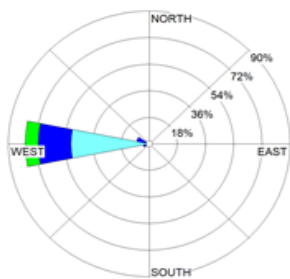
Date : Jul 14-15, 2023



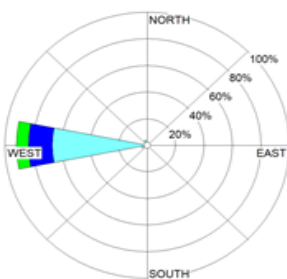
Date : Jul 15-16, 2023



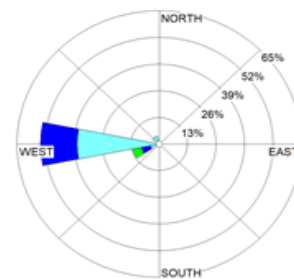
Date : Jul 16-17, 2023



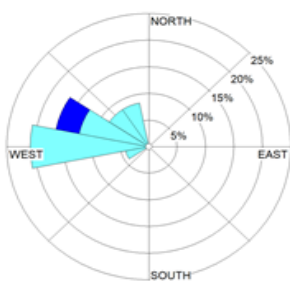
Date : Jul 17-18, 2023



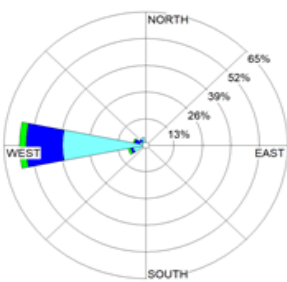
Date : Jul 18-19, 2023



Date : Jul 19-20, 2023



Date : Jul 20-21, 2023



Date : Jul 14-21, 2023

| WS(m/s)  | %     |
|----------|-------|
| ≥ 10.0   | 0.00  |
| 8.0-10.0 | 0.00  |
| 5.5-8.0  | 0.00  |
| 3.3-5.5  | 4.76  |
| 1.7-3.3  | 21.43 |
| 0.3-1.7  | 54.17 |
| Calms    | 19.64 |

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** :

**Project Name** :

**Project Location** :

**Lot ID** : 2381409

Date Received : Jul 24, 2023

Date Reported : Jul 27, 2023

Report Number : 2715036-1

Page 1 of 2

**Sample Number** 2381409-8 to 14  
**Parameter** Wind Speed / Wind Direction  
**Location** บ้านแพะ (A2) (GPS 47P 0696687, 1616593)  
**Sampling Date** Jul 14 - Jul 21, 2023  
**Sampling by** Vanich Phanpivit

| Time                | Jul 14 - Jul 15, 2023 |             |     | Jul 15 - Jul 16, 2023 |             |     | Jul 16 - Jul 17, 2023 |             |     | Jul 17 - Jul 18, 2023 |             |     | Jul 18 - Jul 19, 2023 |             |     | Jul 19 - Jul 20, 2023 |             |     | Jul 20 - Jul 21, 2023 |             |     |
|---------------------|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|
|                     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     |
| 11:00 AM - 12:00 PM | 2.2                   | 247.0       | WSW | 0.0                   | -           | -   | 3.4                   | 229.0       | SW  | 3.3                   | 255.0       | WSW | 2.4                   | 253.0       | WSW | 1.7                   | 307.0       | NW  | 2.0                   | 199.0       | SSW |
| 12:00 PM - 01:00 PM | 2.5                   | 253.0       | WSW | 0.4                   | 359.0       | N   | 0.5                   | 8.0         | N   | 5.5                   | 257.0       | WSW | 2.9                   | 267.0       | W   | 2.5                   | 328.0       | NNW | 2.0                   | 240.0       | WSW |
| 01:00 PM - 02:00 PM | 3.3                   | 233.0       | SW  | 2.2                   | 244.0       | WSW | 3.5                   | 229.0       | SW  | 2.8                   | 217.0       | SW  | 3.3                   | 244.0       | WSW | 3.9                   | 284.0       | WNW | 1.9                   | 191.0       | S   |
| 02:00 PM - 03:00 PM | 0.5                   | 259.0       | W   | 0.7                   | 293.0       | WNW | 1.0                   | 294.0       | WNW | 0.0                   | -           | -   | 4.0                   | 200.0       | SSW | 4.3                   | 305.0       | NW  | 1.0                   | 230.0       | SW  |
| 03:00 PM - 04:00 PM | 0.2                   | -           | -   | 3.1                   | 236.0       | SW  | 2.0                   | 265.0       | W   | 2.1                   | 297.0       | WNW | 3.4                   | 255.0       | WSW | 3.0                   | 280.0       | W   | 1.1                   | 187.0       | S   |
| 04:00 PM - 05:00 PM | 1.3                   | 303.0       | WNW | 2.8                   | 238.0       | WSW | 4.6                   | 266.0       | W   | 3.3                   | 281.0       | W   | 2.8                   | 276.0       | W   | 3.0                   | 290.0       | WNW | 1.0                   | 281.0       | W   |
| 05:00 PM - 06:00 PM | 2.0                   | 238.0       | WSW | 3.0                   | 249.0       | WSW | 1.4                   | 265.0       | W   | 1.4                   | 260.0       | W   | 2.9                   | 262.0       | W   | 2.9                   | 277.0       | W   | 2.0                   | 277.0       | W   |
| 06:00 PM - 07:00 PM | 2.4                   | 238.0       | WSW | 1.6                   | 253.0       | WSW | 1.1                   | 241.0       | WSW | 1.7                   | 261.0       | W   | 3.0                   | 233.0       | SW  | 1.3                   | 286.0       | WNW | 1.6                   | 278.0       | W   |
| 07:00 PM - 08:00 PM | 3.7                   | 236.0       | SW  | 2.7                   | 258.0       | WSW | 0.0                   | -           | -   | 4.6                   | 271.0       | W   | 3.8                   | 255.0       | WSW | 1.4                   | 287.0       | WNW | 1.1                   | 283.0       | WNW |
| 08:00 PM - 09:00 PM | 2.7                   | 264.0       | W   | 2.2                   | 256.0       | WSW | 4.8                   | 234.0       | SW  | 1.7                   | 253.0       | WSW | 2.1                   | 246.0       | WSW | 2.3                   | 269.0       | W   | 1.9                   | 287.0       | WNW |
| 09:00 PM - 10:00 PM | 1.9                   | 268.0       | W   | 1.7                   | 273.0       | W   | 2.9                   | 239.0       | WSW | 2.9                   | 240.0       | WSW | 1.7                   | 242.0       | WSW | 2.4                   | 266.0       | W   | 1.7                   | 306.0       | NW  |
| 10:00 PM - 11:00 PM | 1.8                   | 242.0       | WSW | 2.1                   | 272.0       | W   | 2.5                   | 222.0       | SW  | 2.8                   | 243.0       | WSW | 0.0                   | -           | -   | 1.9                   | 267.0       | W   | 2.0                   | 312.0       | NW  |
| 11:00 PM - 12:00 AM | 1.0                   | 258.0       | WSW | 2.5                   | 243.0       | WSW | 2.8                   | 242.0       | WSW | 1.3                   | 242.0       | WSW | 2.0                   | 251.0       | WSW | 1.3                   | 265.0       | W   | 1.9                   | 286.0       | WNW |
| 12:00 AM - 01:00 AM | 0.3                   | 242.0       | WSW | 1.6                   | 281.0       | W   | 2.1                   | 227.0       | SW  | 2.6                   | 242.0       | WSW | 0.7                   | 233.0       | SW  | 1.0                   | 212.0       | SSW | 2.3                   | 305.0       | NW  |
| 01:00 AM - 02:00 AM | 0.8                   | 269.0       | W   | 2.6                   | 269.0       | W   | 1.2                   | 240.0       | WSW | 0.9                   | 210.0       | SSW | 2.1                   | 192.0       | SSW | 1.4                   | 256.0       | WSW | 2.0                   | 281.0       | W   |
| 02:00 AM - 03:00 AM | 0.0                   | -           | -   | 0.6                   | 252.0       | WSW | 1.6                   | 246.0       | WSW | 0.7                   | 225.0       | SW  | 2.2                   | 239.0       | WSW | 1.8                   | 276.0       | W   | 2.2                   | 290.0       | WNW |
| 03:00 AM - 04:00 AM | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.6                   | 251.0       | WSW | 0.0                   | -           | -   | 0.9                   | 190.0       | S   | 1.9                   | 266.0       | W   | 2.9                   | 276.0       | W   |
| 04:00 AM - 05:00 AM | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.3                   | 231.0       | SW  | 0.0                   | -           | -   | 1.5                   | 229.0       | SW  | 2.0                   | 234.0       | SW  | 2.2                   | 277.0       | W   |
| 05:00 AM - 06:00 AM | 0.8                   | 88.0        | E   | 0.0                   | -           | -   | 0.6                   | 233.0       | SW  | 0.0                   | -           | -   | 1.5                   | 186.0       | S   | 2.8                   | 256.0       | WSW | 2.1                   | 298.0       | WNW |
| 06:00 AM - 07:00 AM | 0.5                   | 74.0        | ENE | 0.4                   | 257.0       | WSW | 1.5                   | 207.0       | SSW | 0.0                   | -           | -   | 1.2                   | 282.0       | WNW | 2.0                   | 255.0       | WSW | 2.0                   | 280.0       | W   |
| 07:00 AM - 08:00 AM | 0.6                   | 157.0       | SSE | 1.2                   | 255.0       | WSW | 2.1                   | 211.0       | SSW | 0.9                   | 238.0       | WSW | 2.8                   | 273.0       | W   | 2.1                   | 246.0       | WSW | 1.8                   | 261.0       | W   |
| 08:00 AM - 09:00 AM | 2.7                   | 252.0       | WSW | 0.3                   | 269.0       | W   | 5.8                   | 245.0       | WSW | 4.0                   | 290.0       | WNW | 1.7                   | 120.0       | ESE | 2.0                   | 212.0       | SSW | 1.9                   | 261.0       | W   |
| 09:00 AM - 10:00 AM | 1.9                   | 294.0       | WNW | 1.4                   | 352.0       | N   | 3.3                   | 225.0       | SW  | 1.7                   | 238.0       | WSW | 1.9                   | 283.0       | WNW | 1.9                   | 250.0       | WSW | 1.6                   | 266.0       | W   |
| 10:00 AM - 11:00 AM | 3.3                   | 243.0       | WSW | 1.8                   | 265.0       | W   | 1.7                   | 337.0       | NNW | 4.4                   | 259.0       | W   | 3.9                   | 288.0       | WNW | 1.7                   | 234.0       | SW  | 1.1                   | 265.0       | W   |

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** :

**Project Name** :

**Project Location** :

**Lot ID** : 2381409

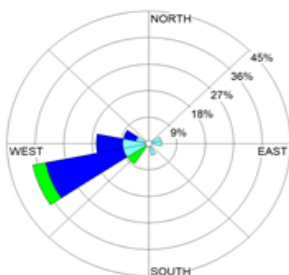
Date Received : Jul 24, 2023

Date Reported : Jul 27, 2023

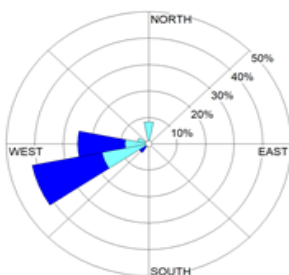
Report Number : 2715036-1

Page 2 of 2

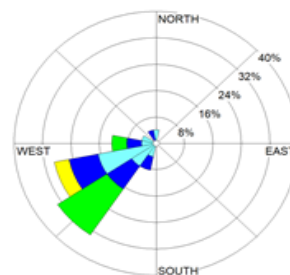
### Wind Rose



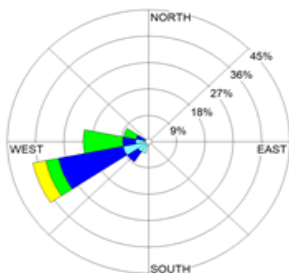
Date : Jul 14-15, 2023



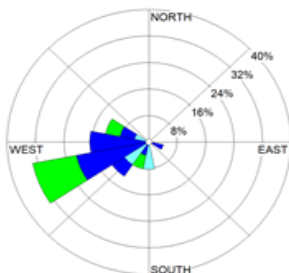
Date : Jul 15-16, 2023



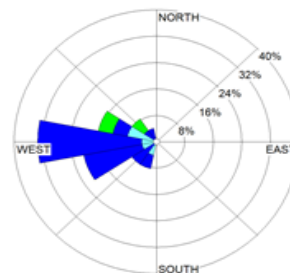
Date : Jul 16-17, 2023



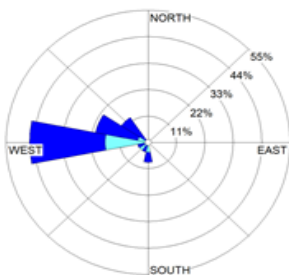
Date : Jul 17-18, 2023



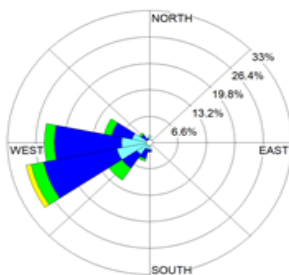
Date : Jul 18-19, 2023



Date : Jul 19-20, 2023



Date : Jul 20-21, 2023



Date : Jul 14-21, 2023

| WS(m/s)  | %     |
|----------|-------|
| ≥ 10.0   | 0.00  |
| 8.0-10.0 | 0.00  |
| 5.5-8.0  | 1.19  |
| 3.3-5.5  | 11.91 |
| 1.7-3.3  | 48.81 |
| 0.3-1.7  | 29.16 |
| Calms    | 8.93  |

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** :

**Project Name** :

**Project Location** :

**Lot ID** : 2381409

Date Received : Jul 24, 2023

Date Reported : Jul 27, 2023

Report Number : 2715036-1

Page 1 of 2

**Sample Number** 2381409-15 to 21  
**Parameter** Wind Speed / Wind Direction  
**Location** วัดหนองถ่านหิน (A3) (GPS 47P 0695360, 1615739)  
**Sampling Date** Jul 14 - Jul 21, 2023  
**Sampling by** Vanich Phanpinit

| Time                | Jul 14 - Jul 15, 2023 |             |     | Jul 15 - Jul 16, 2023 |             |     | Jul 16 - Jul 17, 2023 |             |     | Jul 17 - Jul 18, 2023 |             |     | Jul 18 - Jul 19, 2023 |             |     | Jul 19 - Jul 20, 2023 |             |     | Jul 20 - Jul 21, 2023 |             |     |
|---------------------|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|-----------------------|-------------|-----|
|                     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     | WS<br>(m/s)           | WD<br>(deg) |     |
| 12:00 PM - 01:00 PM | 2.5                   | 46.0        | NE  | 2.2                   | 152.0       | SSE | 0.5                   | 354.0       | N   | 2.9                   | 357.0       | N   | 1.6                   | 322.0       | NW  | 1.1                   | 61.0        | ENE | 1.2                   | 342.0       | NNW |
| 01:00 PM - 02:00 PM | 3.4                   | 33.0        | NNE | 0.5                   | 213.0       | SSW | 1.2                   | 124.0       | SE  | 4.2                   | 0.0         | N   | 1.6                   | 320.0       | NW  | 1.3                   | 48.0        | NE  | 0.3                   | 67.0        | ENE |
| 02:00 PM - 03:00 PM | 1.4                   | 24.0        | NNE | 0.5                   | 359.0       | N   | 2.1                   | 359.0       | N   | 2.8                   | 19.0        | NNE | 1.6                   | 359.0       | N   | 3.2                   | 2.0         | N   | 1.7                   | 120.0       | ESE |
| 03:00 PM - 04:00 PM | 1.1                   | 8.0         | N   | 1.9                   | 64.0        | ENE | 3.2                   | 273.0       | W   | 3.8                   | 79.0        | E   | 1.3                   | 335.0       | NNW | 0.0                   | -           | -   | 0.8                   | 352.0       | N   |
| 04:00 PM - 05:00 PM | 1.8                   | 348.0       | NNW | 0.7                   | 123.0       | ESE | 1.1                   | 181.0       | S   | 2.0                   | 32.0        | NNE | 1.6                   | 334.0       | NNW | 1.6                   | 50.0        | NE  | 1.2                   | 13.0        | NNE |
| 05:00 PM - 06:00 PM | 0.2                   | -           | -   | 2.0                   | 37.0        | NE  | 2.0                   | 31.0        | NNE | 1.7                   | 48.0        | NE  | 1.6                   | 31.0        | NNE | 2.0                   | 352.0       | N   | 0.6                   | 10.0        | N   |
| 06:00 PM - 07:00 PM | 1.3                   | 330.0       | NNW | 2.0                   | 67.0        | ENE | 0.4                   | 3.0         | N   | 0.5                   | 30.0        | NNE | 1.5                   | 353.0       | N   | 2.9                   | 24.0        | NNE | 0.5                   | 348.0       | NNW |
| 07:00 PM - 08:00 PM | 0.9                   | 15.0        | NNE | 1.0                   | 0.0         | N   | 0.2                   | -           | -   | 1.0                   | 353.0       | N   | 2.0                   | 35.0        | NE  | 2.3                   | 2.0         | N   | 1.0                   | 355.0       | N   |
| 08:00 PM - 09:00 PM | 0.5                   | 75.0        | ENE | 0.6                   | 20.0        | NNE | 1.5                   | 351.0       | N   | 2.0                   | 330.0       | NNW | 3.0                   | 342.0       | NNW | 0.4                   | 20.0        | NNE | 1.0                   | 354.0       | N   |
| 09:00 PM - 10:00 PM | 0.5                   | 356.0       | N   | 1.9                   | 4.0         | N   | 0.7                   | 17.0        | NNE | 1.2                   | 19.0        | NNE | 0.8                   | 22.0        | NNE | 1.0                   | 336.0       | NNW | 1.4                   | 335.0       | NNW |
| 10:00 PM - 11:00 PM | 0.3                   | 20.0        | NNE | 0.6                   | 352.0       | N   | 1.6                   | 359.0       | N   | 1.0                   | 14.0        | NNE | 1.0                   | 344.0       | NNW | 1.9                   | 359.0       | N   | 1.6                   | 338.0       | NNW |
| 11:00 PM - 12:00 AM | 0.5                   | 96.0        | E   | 0.6                   | 345.0       | NNW | 1.0                   | 12.0        | NNE | 1.0                   | 11.0        | N   | 0.9                   | 335.0       | NNW | 2.4                   | 37.0        | NE  | 0.2                   | -           | -   |
| 12:00 AM - 01:00 AM | 0.7                   | 123.0       | ESE | 1.3                   | 4.0         | N   | 2.9                   | 33.0        | NNE | 1.5                   | 14.0        | NNE | 1.2                   | 347.0       | NNW | 1.4                   | 340.0       | NNW | 0.4                   | 292.0       | WNW |
| 01:00 AM - 02:00 AM | 0.0                   | -           | -   | 1.1                   | 39.0        | NE  | 1.2                   | 39.0        | NE  | 1.2                   | 357.0       | N   | 0.4                   | 358.0       | N   | 1.3                   | 21.0        | NNE | 0.9                   | 328.0       | NNW |
| 02:00 AM - 03:00 AM | 0.0                   | -           | -   | 1.7                   | 91.0        | E   | 1.0                   | 347.0       | NNW | 2.0                   | 349.0       | N   | 1.3                   | 352.0       | N   | 0.0                   | -           | -   | 0.5                   | 286.0       | WNW |
| 03:00 AM - 04:00 AM | 0.0                   | -           | -   | 1.1                   | 31.0        | NNE | 1.1                   | 354.0       | N   | 0.5                   | 26.0        | NNE | 0.6                   | 328.0       | NNW | 0.9                   | 341.0       | NNW | 1.0                   | 301.0       | WNW |
| 04:00 AM - 05:00 AM | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.4                   | 328.0       | NNW | 0.7                   | 359.0       | N   | 1.2                   | 319.0       | NW  | 0.0                   | -           | -   | 0.0                   | -           | -   |
| 05:00 AM - 06:00 AM | 0.0                   | -           | -   | 0.0                   | -           | -   | 0.8                   | 357.0       | N   | 0.0                   | -           | -   | 1.4                   | 2.0         | N   | 0.3                   | 304.0       | NW  | 1.0                   | 345.0       | NNW |
| 06:00 AM - 07:00 AM | 0.2                   | -           | -   | 0.4                   | 18.0        | NNE | 1.1                   | 325.0       | NW  | 0.3                   | 16.0        | NNE | 1.7                   | 352.0       | N   | 0.0                   | -           | -   | 1.3                   | 297.0       | WNW |
| 07:00 AM - 08:00 AM | 0.8                   | 332.0       | NNW | 0.0                   | -           | -   | 1.9                   | 337.0       | NNW | 2.0                   | 344.0       | NNW | 0.7                   | 351.0       | N   | 0.0                   | -           | -   | 0.5                   | 342.0       | NNW |
| 08:00 AM - 09:00 AM | 0.8                   | 7.0         | N   | 1.0                   | 354.0       | N   | 1.5                   | 77.0        | ENE | 0.7                   | 9.0         | N   | 1.1                   | 359.0       | N   | 0.2                   | -           | -   | 1.4                   | 354.0       | N   |
| 09:00 AM - 10:00 AM | 2.1                   | 19.0        | NNE | 0.8                   | 281.0       | W   | 2.4                   | 47.0        | NE  | 2.4                   | 83.0        | E   | 2.5                   | 97.0        | E   | 0.1                   | -           | -   | 1.1                   | 350.0       | N   |
| 10:00 AM - 11:00 AM | 0.4                   | 34.0        | NE  | 0.2                   | -           | -   | 4.1                   | 346.0       | NNW | 3.0                   | 14.0        | NNE | 1.8                   | 28.0        | NNE | 0.6                   | 68.0        | ENE | 0.9                   | 348.0       | NNW |
| 11:00 AM - 12:00 PM | 1.7                   | 56.0        | NE  | 1.9                   | 22.0        | NNE | 1.9                   | 108.0       | ESE | 3.2                   | 14.0        | NNE | 2.8                   | 1.0         | N   | 0.2                   | -           | -   | 0.7                   | 344.0       | NNW |

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.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** :

**Project Name** :

**Project Location** :

**Lot ID** : 2381409

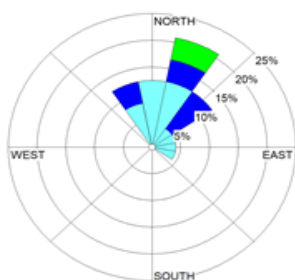
Date Received : Jul 24, 2023

Date Reported : Jul 27, 2023

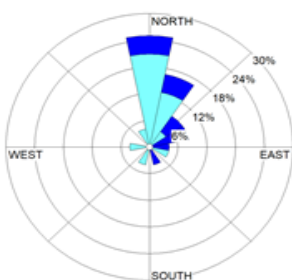
Report Number : 2715036-1

Page 2 of 2

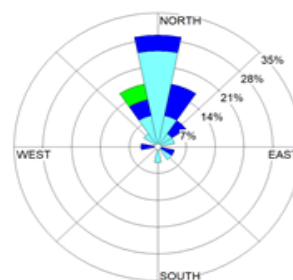
### Wind Rose



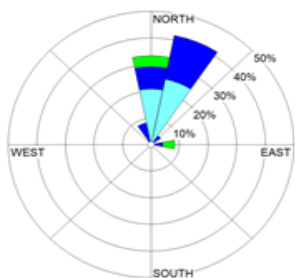
Date : Jul 14-15, 2023



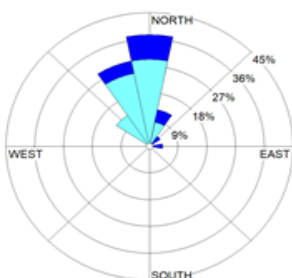
Date : Jul 15-16, 2023



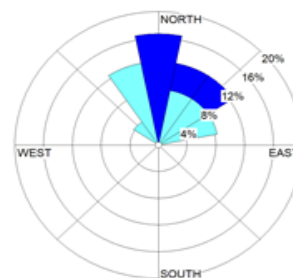
Date : Jul 16-17, 2023



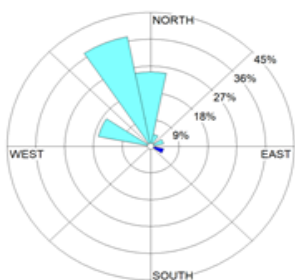
Date : Jul 17-18, 2023



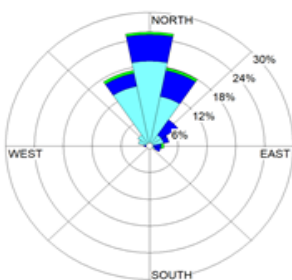
Date : Jul 18-19, 2023



Date : Jul 19-20, 2023



Date : Jul 20-21, 2023



Date : Jul 14-21, 2023

| WS(m/s)  | %     |
|----------|-------|
| ≥ 10.0   | 0.00  |
| 8.0-10.0 | 0.00  |
| 5.5-8.0  | 0.00  |
| 3.3-5.5  | 2.38  |
| 1.7-3.3  | 24.41 |
| 0.3-1.7  | 59.52 |
| Calms    | 13.69 |

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## ภาคผนวก ค-2

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คุณภาพอากาศจากปล่องระบาย



## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 2381308**

Date Received : Jul 21, 2023  
Date Reported : Jul 31, 2023  
Report Number: 2715050-1

Page 1 of 1

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381308-1  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Emission from Stationary Source  |
| <b>Location</b>                | เตาหลอม (BH-1)   |
| <b>Date Analysis Commenced</b> | Jul 24, 2023   |
| <b>Condition of Sample</b>     | Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish and one amber plastic bottle |

### Stack Description

|                     |                          |      |                   |        |    |                       |       |        |
|---------------------|--------------------------|------|-------------------|--------|----|-----------------------|-------|--------|
| Ambient Pressure    | 754                      | mmHg | Diameter          | 1.25   | m  | Oxygen                | 20.9  | %      |
| Ambient Temperature | 32.0                     | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.0   | %      |
| Type of Process     | Combustion (Open System) |      | Stack Temperature | 40.0   | °C | Gas Velocity          | 7.1   | m/s    |
| Type of Fuel        | LPG                      |      | Moisture          | 4.33   | %  | Flow Rate (Actual O2) | 28534 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Oxides of Nitrogen          | 10:00 AM - 10:10 AM | ppm   | -   | 1.06      | <1.06  | -             | 180           | United States Environmental Protection Agency, EPA Method 7 | Bangkok          |
| Total Suspended Particulate | 09:30 AM - 10:18 AM | mg/m3 | -   | 0.5       | 2.0    | 40            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

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

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381438**

Date Received : Jul 18, 2023

Date Reported : Jul 26, 2023

Report Number: 2715064-1

Page 1 of 1

**Sample Number** 2381438-1  
**Sampled Date** Jul 18, 2023  
**Sample Description** Emission from Stationary Source  
**Location** หน่วยปรับปรุงทราย 2 (BH-3)  
**Date Analysis Commenced** Jul 19, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish

### Stack Description

|                     |         |      |                   |        |    |                       |       |        |
|---------------------|---------|------|-------------------|--------|----|-----------------------|-------|--------|
| Ambient Pressure    | 754     | mmHg | Diameter          | 1.65   | m  | Oxygen                | 20.9  | %      |
| Ambient Temperature | 32.0    | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.0   | %      |
| Type of Process     | Process |      | Stack Temperature | 60.0   | °C | Gas Velocity          | 12.2  | m/s    |
| Type of Fuel        | -       |      | Moisture          | 3.75   | %  | Flow Rate (Actual O2) | 80161 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Total Suspended Particulate | 11:00 AM - 11:48 AM | mg/m3 | -   | 0.5       | 2.6    | 40            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**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.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2391977**

Date Received : Aug 11, 2023

Date Reported : Aug 18, 2023

Report Number: 2739260-1

Page 1 of 1

**Sample Number** 2391977-1  
**Sampled Date** Aug 11, 2023  
**Sample Description** Emission from Stationary Source  
**Location** หน่วยรื้อชิ้นงานและระบายความร้อน (BH-4)  
**Date Analysis Commenced** Aug 16, 2023  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish

### Stack Description

|                     |         |      |                   |        |    |                       |       |        |
|---------------------|---------|------|-------------------|--------|----|-----------------------|-------|--------|
| Ambient Pressure    | 756     | mmHg | Diameter          | 1.00   | m  | Oxygen                | 20.9  | %      |
| Ambient Temperature | 32.0    | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.0   | %      |
| Type of Process     | Process |      | Stack Temperature | 41.5   | °C | Gas Velocity          | 18.5  | m/s    |
| Type of Fuel        | -       |      | Moisture          | 3.09   | %  | Flow Rate (Actual O2) | 48080 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Total Suspended Particulate | 09:55 AM - 10:37 AM | mg/m3 | -   | 0.5       | 21.1   | 40            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
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)

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**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.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381310**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number: 2715067-1

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381310-1   |
| <b>Sampled Date</b>            | Jul 21, 2023  |
| <b>Sample Description</b>      | Emission from Stationary Source   |
| <b>Location</b>                | หน่วยเตรียมแบบใส่ทราย (WS-1)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Extracted into two filter papers placed in each cassette and one amber plastic bottle |

### Stack Description

|                     |         |      |                   |        |    |                       |      |        |
|---------------------|---------|------|-------------------|--------|----|-----------------------|------|--------|
| Ambient Pressure    | 754     | mmHg | Diameter          | 0.60   | m  | Oxygen                | 20.9 | %      |
| Ambient Temperature | 32.0    | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.0  | %      |
| Type of Process     | Process |      | Stack Temperature | 31.0   | °C | Gas Velocity          | 8.8  | m/s    |
| Type of Fuel        | -       |      | Moisture          | 3.61   | %  | Flow Rate (Actual O2) | 8410 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Total Suspended Particulate | 10:46 AM - 11:28 AM | mg/m3 | -   | 0.5       | 0.9    | 40            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**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.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381310**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number: 2715067-2

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381310-1   |
| <b>Sampled Date</b>            | Jul 21, 2023  |
| <b>Sample Description</b>      | Emission from Stationary Source   |
| <b>Location</b>                | หน่วยเตรียมแบบใส่ทราย (WS-1)  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023  |
| <b>Condition of Sample</b>     | Extracted into two filter papers placed in each cassette and one amber plastic bottle |

### Stack Description

|                     |         |      |                   |        |    |                       |      |        |
|---------------------|---------|------|-------------------|--------|----|-----------------------|------|--------|
| Ambient Pressure    | 754     | mmHg | Diameter          | 0.60   | m  | Oxygen                | 20.9 | %      |
| Ambient Temperature | 32.0    | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.0  | %      |
| Type of Process     | Process |      | Stack Temperature | 31.0   | °C | Gas Velocity          | 8.8  | m/s    |
| Type of Fuel        | -       |      | Moisture          | 3.61   | %  | Flow Rate (Actual O2) | 8410 | Nm3/hr |

| Analyte            | Sampled Time        | Unit | LOD | LOQ (LOR) | Result | Method                | Testing Location |
|--------------------|---------------------|------|-----|-----------|--------|-----------------------|------------------|
| <b>Air Testing</b> |                     |      |     |           |        |                       |                  |
| Triethanolamine    | 10:46 AM - 11:36 AM | ppm  | -   | 0.002     | <0.002 | Based on OSHA, PV2141 | Bangkok          |

**Sampled By :** Suwicha Thog-On

Remark :

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

Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 2381428**

Date Received : Jul 18, 2023  
Date Reported : Jul 26, 2023  
Report Number: 2715054-1

Page 1 of 1

**Sample Number** 2381428-1  
**Sampled Date** Jul 17, 2023  
**Sample Description** Emission from Stationary Source  
**Location** เตาอบชุมชนและล้างน้ำมัน 1 (HT6)  
**Date Analysis Commenced** Jul 19, 2023  
**Condition of Sample** Extracted into one 2-L collection flask and one filter paper placed in plastic petri dish

### Stack Description

|                     |         |      |                   |        |    |                       |       |        |
|---------------------|---------|------|-------------------|--------|----|-----------------------|-------|--------|
| Ambient Pressure    | 754     | mmHg | Diameter          | 0.60   | m  | Oxygen                | 20.9  | %      |
| Ambient Temperature | 32.0    | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.0   | %      |
| Type of Process     | Process |      | Stack Temperature | 40.0   | °C | Gas Velocity          | 11.0  | m/s    |
| Type of Fuel        | -       |      | Moisture          | 3.31   | %  | Flow Rate (Actual O2) | 10210 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Oxides of Nitrogen          | 10:15 AM - 10:25 AM | ppm   | -   | 1.06      | 1.43   | 60            | 180           | United States Environmental Protection Agency, EPA Method 7 | Bangkok          |
| Total Suspended Particulate | 10:00 AM - 10:48 AM | mg/m3 | -   | 0.5       | 7.3    | 60            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**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.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**  
**Project Name :**  
**Project Location :**

**Lot ID: 2381429**

Date Received : Jul 18, 2023  
Date Reported : Jul 26, 2023  
Report Number: 2715055-1

Page 1 of 1

**Sample Number** 2381429-1  
**Sampled Date** Jul 17, 2023  
**Sample Description** Emission from Stationary Source  
**Location** เตาอบชุมชนและล้างน้ำมัน 2 (HT7)  
**Date Analysis Commenced** Jul 19, 2023  
**Condition of Sample** Extracted into one 2-L collection flask and one filter paper placed in plastic petri dish

### Stack Description

|                     |         |      |                   |        |    |                       |      |        |
|---------------------|---------|------|-------------------|--------|----|-----------------------|------|--------|
| Ambient Pressure    | 754     | mmHg | Diameter          | 0.60   | m  | Oxygen                | 20.2 | %      |
| Ambient Temperature | 32.0    | °C   | Shape             | Circle |    | Carbon Dioxide        | 0.4  | %      |
| Type of Process     | Process |      | Stack Temperature | 46.0   | °C | Gas Velocity          | 8.0  | m/s    |
| Type of Fuel        | -       |      | Moisture          | 3.56   | %  | Flow Rate (Actual O2) | 7295 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Oxides of Nitrogen          | 11:20 AM - 11:30 AM | ppm   | -   | 1.06      | 4.12   | 60            | 180           | United States Environmental Protection Agency, EPA Method 7 | Bangkok          |
| Total Suspended Particulate | 11:10 AM - 11:58 AM | mg/m3 | -   | 0.5       | 20.3   | 60            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**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.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381430**

Date Received : Jul 18, 2023

Date Reported : Jul 26, 2023

Report Number: 2715057-1

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381430-1   |
| <b>Sampled Date</b>            | Jul 17, 2023  |
| <b>Sample Description</b>      | Emission from Stationary Source   |
| <b>Location</b>                | เตาอบ 1 (HT6)   |
| <b>Date Analysis Commenced</b> | Jul 19, 2023  |
| <b>Condition of Sample</b>     | Extracted into one 2-L collection flask and one filter paper placed in plastic petri dish |

### Stack Description

|                     |                          |      |                   |        |    |                       |      |        |
|---------------------|--------------------------|------|-------------------|--------|----|-----------------------|------|--------|
| Ambient Pressure    | 754                      | mmHg | Diameter          | 0.51   | m  | Oxygen                | 15.5 | %      |
| Ambient Temperature | 32.0                     | °C   | Shape             | Circle |    | Carbon Dioxide        | 3.1  | %      |
| Type of Process     | Combustion (Open System) |      | Stack Temperature | 75.0   | °C | Gas Velocity          | 3.9  | m/s    |
| Type of Fuel        | LPG                      |      | Moisture          | 4.42   | %  | Flow Rate (Actual O2) | 2340 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Oxides of Nitrogen          | 01:50 PM - 02:00 PM | ppm   | -   | 1.06      | 7.05   | 60            | 180           | United States Environmental Protection Agency, EPA Method 7 | Bangkok          |
| Total Suspended Particulate | 01:40 PM - 02:34 PM | mg/m3 | -   | 0.5       | 4.0    | 60            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**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.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381431**

Date Received : Jul 18, 2023

Date Reported : Jul 26, 2023

Report Number: 2715058-1

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2381431-1   |
| <b>Sampled Date</b>            | Jul 17, 2023  |
| <b>Sample Description</b>      | Emission from Stationary Source   |
| <b>Location</b>                | เตาอบ 2 (HT7)   |
| <b>Date Analysis Commenced</b> | Jul 19, 2023  |
| <b>Condition of Sample</b>     | Extracted into one 2-L collection flask and one filter paper placed in plastic petri dish |

### Stack Description

|                     |                          |      |                   |        |    |                       |      |        |
|---------------------|--------------------------|------|-------------------|--------|----|-----------------------|------|--------|
| Ambient Pressure    | 754                      | mmHg | Diameter          | 0.51   | m  | Oxygen                | 13.4 | %      |
| Ambient Temperature | 32.0                     | °C   | Shape             | Circle |    | Carbon Dioxide        | 4.2  | %      |
| Type of Process     | Combustion (Open System) |      | Stack Temperature | 74.0   | °C | Gas Velocity          | 5.6  | m/s    |
| Type of Fuel        | LPG                      |      | Moisture          | 4.29   | %  | Flow Rate (Actual O2) | 3334 | Nm3/hr |

| Analyte                     | Sampled Time        | Unit  | LOD | LOQ (LOR) | Result | Guideline (1) | Guideline (2) | Method  | Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|---------------|---------------|---|------------------|
| <b>Air Testing</b>          |                     |       |     |           |        |               |               |   |                  |
| Oxides of Nitrogen          | 02:50 PM - 03:00 PM | ppm   | -   | 1.06      | 9.04   | 60            | 180           | United States Environmental Protection Agency, EPA Method 7 | Bangkok          |
| Total Suspended Particulate | 02:45 PM - 03:33 PM | mg/m3 | -   | 0.5       | 3.2    | 60            | 120           | United States Environmental Protection Agency, EPA Method 5 | Bangkok          |

**Guideline :** Guideline (1) : Environmental Impact Assessment Report of Magotteaux Co., Ltd. (B.E.2556)  
Guideline (2) : Notification of the Ministry of Science, Technology and Environment (B.E.2544) : New Source

**Sampled By :** Suwicha Thog-On

Remark :

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

ทะเบียนเลขที่ ว-204-จ-6115

**Approved by**

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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# ภาคผนวก ค-3

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คุณภาพน้ำ

บริเวณบ่อน้ำ

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810047-1

Page 1 of 2

| <b>Sample Number</b>                         | 23115511-1   |        |           |        |                           |  |                  |
|--|--|--------|-----------|--------|---------------------------|--|------------------|
| <b>Sampled Date</b>                          | Oct 10, 2023 9:38 AM   |        |           |        |                           |  |                  |
| <b>Sample Description</b>                    | Wastewater   |        |           |        |                           |  |                  |
| <b>Location</b>                              | บ่อหนองน้ำ   |        |           |        |                           |  |                  |
| <b>Date Analysis Commenced</b>               | Oct 11, 2023   |        |           |        |                           |  |                  |
| <b>Condition of Sample</b>                   | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |        |           |        |                           |  |                  |
| Analyte                                      | Unit   | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
| <b>Metals Testing</b>                        |  |        |           |        |                           |  |                  |
| Chromium                                     | mg/L   | 0.0003 | 0.0005    | 0.0007 | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| Manganese                                    | mg/L   | 0.0003 | 0.0005    | 0.11   | ≤5.0                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| <b>Water Testing</b>                         |  |        |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L   | -      | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L   | -      | 25        | 41     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                               | mg/L   | -      | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                          |  | -      | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C | mg/L   | -      | 5         | 300    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *               | mg/L   | 0.15   | 1.0       | <1.0   | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |

**Technical Management**

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

**Approved by**

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810047-1

Page 2 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-1   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:38 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | บ่อบำบัดน้ำ  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                             |      |     |           |        |                           |   |                  |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -   | 5         | 18     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

**Approved by**

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810047-2

Page 1 of 1

| <b>Sample Number</b>           | 23115511-1   |       |           |        |                           |   |                  |
|--------------------------------|--|-------|-----------|--------|---------------------------|---|------------------|
| <b>Sampled Date</b>            | Oct 10, 2023 9:38 AM   |       |           |        |                           |   |                  |
| <b>Sample Description</b>      | Wastewater   |       |           |        |                           |   |                  |
| <b>Location</b>                | บ่อหนองน้ำ   |       |           |        |                           |   |                  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |       |           |        |                           |   |                  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |       |           |        |                           |   |                  |
| Analyte                        | Unit   | LOD   | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
| <b>Metals Testing</b>          |  |       |           |        |                           |   |                  |
| Iron                           | mg/L   | 0.003 | 0.005     | 0.14   | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F | Bangkok          |
| <b>Water Testing</b>           |  |       |           |        |                           |   |                  |
| Dissolved Oxygen *             | mg/L   | -     | 0.1       | 4.6    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)     | 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).

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

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O :** 4800958141  
**Project Name :**  
**Project Location :**

**TESTING**  
**No.0009**  
**Lot ID: 23115511**  
Date Received : Oct 10, 2023  
Date Reported : Oct 18, 2023  
Report Number : 2810048-1

Page 1 of 2

| <b>Sample Number</b>                         | 23115511-2   |        |           |         |                           |  |                  |
|--|--|--------|-----------|---------|---------------------------|--|------------------|
| <b>Sampled Date</b>                          | Oct 10, 2023 9:47 AM   |        |           |         |                           |  |                  |
| <b>Sample Description</b>                    | Wastewater   |        |           |         |                           |  |                  |
| <b>Location</b>                              | บ่อพักน้ำทิ้ง  |        |           |         |                           |  |                  |
| <b>Date Analysis Commenced</b>               | Oct 11, 2023   |        |           |         |                           |  |                  |
| <b>Condition of Sample</b>                   | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |        |           |         |                           |  |                  |
| Analyte                                      | Unit   | LOD    | LOQ (LOR) | Result  | Guideline / Specification | Method   | Testing Location |
| <b>Metals Testing</b>                        |  |        |           |         |                           |  |                  |
| Chromium                                     | mg/L   | 0.0003 | 0.0005    | <0.0005 | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| Manganese                                    | mg/L   | 0.0003 | 0.0005    | 0.08    | ≤5.0                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| <b>Water Testing</b>                         |  |        |           |         |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L   | -      | 2.0       | <2.0    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L   | -      | 25        | 38      | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                               | mg/L   | -      | 3         | <3      | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                          |  | -      | -         | 8.0     | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C | mg/L   | -      | 5         | 540     | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *               | mg/L   | 0.15   | 1.0       | 15.1    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |

Technical Management

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810048-1

Page 2 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-2   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:47 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | บ่อพักน้ำทิ้ง  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                             |      |     |           |        |                           |   |                  |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -   | 5         | 5      | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

Technical Management

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Lot ID: 2377532

Date Received : Jul 04, 2023

Date Reported : Jul 11, 2023

Report Number : 2714348-1

Page 1 of 1

|                         |   |
|-------------------------|---|
| Sample Number           | 2377532-1   |
| Sampled Date            | Jul 04, 2023 1:20 PM  |
| Sample Description      | Wastewater  |
| Location                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| Date Analysis Commenced | Jul 05, 2023  |
| Condition of Sample     | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 364    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.7    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By** : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-7107

Remark :

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

Technical Management

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location:**

**TESTING**

**No.0009**

**Lot ID: 2379499**

Date Received : Jul 11, 2023

Date Reported : Jul 18, 2023

Report Number : 2721904-1

Page 1 of 2

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2379499-3  |
| <b>Sampled Date</b>            | Jul 11, 2023 2:10 PM   |
| <b>Sample Description</b>      | Wastewater   |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน   |
| <b>Date Analysis Commenced</b> | Jul 12, 2023   |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte                                      | Unit | LOD    | LOQ (LOR) | Result       | Guideline / Specification | Method   | Testing Location |
|--|------|--------|-----------|--------------|---------------------------|--|------------------|
| <b>Metals Testing</b>                        |      |        |           |              |                           |  |                  |
| Chromium                                     | mg/L | 0.0003 | 0.0005    | Not Detected | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| Manganese                                    | mg/L | 0.0003 | 0.0005    | 0.38         | ≤5.0                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| <b>Water Testing</b>                         |      |        |           |              |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L | -      | 2.0       | 2.5          | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -      | 25        | 29           | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                               | mg/L | -      | 3         | <3           | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                          |      | -      | -         | 8.0          | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C | mg/L | -      | 5         | 360          | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *               | mg/L | 0.15   | 1.0       | 1.1          | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |

**Technical Management**

*Sawitree N.*

Sawitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

Lot ID: 2379500

Date Received : Jul 18, 2023

Date Reported : Jul 25, 2023

Report Number : 2727921-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O :

Project Name :

Project Location :

Page 1 of 1

| Sample Number                                    | 2379500-1   |      |           |        |                           |  |                  |
|--|---|------|-----------|--------|---------------------------|--|------------------|
| Sampled Date                                     | Jul 18, 2023 11:20 AM   |      |           |        |                           |  |                  |
| Sample Description                               | Wastewater  |      |           |        |                           |  |                  |
| Location   | บ่อฟักน้ำก่อนระบายออกนอกโรงงาน  |      |           |        |                           |  |                  |
| Date Analysis Commenced                          | Jul 19, 2023  |      |           |        |                           |  |                  |
| Condition of Sample                              | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |      |           |        |                           |  |                  |
| Analyte  | Unit  | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
| <b>Water Testing</b>                             |   |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L  | -    | 2.0       | 2.2    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L  | -    | 25        | 30     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L  | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |   | -    | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L  | -    | 5         | 500    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L  | 0.15 | 1.0       | 1.6    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L  | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By** : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-7107

Remark :

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

Technical Management

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2379501**

Date Received : Jul 25, 2023

Date Reported : Aug 03, 2023

Report Number : 2735271-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2379501-1   |
| <b>Sampled Date</b>            | Jul 25, 2023 11:28 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Jul 26, 2023  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.6    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 280    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.3    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2388451**

Date Received : Aug 01, 2023

Date Reported : Aug 09, 2023

Report Number : 2739011-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

Page 1 of 2

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2388451-1   |
| <b>Sampled Date</b>            | Aug 01, 2023 10:05 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อบำบัดน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Aug 02, 2023  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|------|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |   |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.5    | 5.5-9.0                   | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 568    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C   | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.2    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)                                      | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location:**

**TESTING**

**No.0009**

**Lot ID: 2388451**

Date Received : Aug 01, 2023

Date Reported : Aug 09, 2023

Report Number : 2739011-1

Page 2 of 2

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**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2391659**

Date Received : Aug 08, 2023

Date Reported : Aug 16, 2023

Report Number : 2746827-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2391659-1   |
| <b>Sampled Date</b>            | Aug 08, 2023 11:40 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อบำบัดน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Aug 09, 2023  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle, two BOD bottles and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | 2.8    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | 36     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.6    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 832    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.3    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

Siriluk P.

Siriluk Puengpang

Section Head

ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2391660**

Date Received : Aug 15, 2023

Date Reported : Aug 22, 2023

Report Number : 2751991-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2391660-1   |
| <b>Sampled Date</b>            | Aug 15, 2023 3:30 PM  |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Aug 16, 2023  |
| <b>Condition of Sample</b>     | Contained in one amber glass bottle, two glass vials and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | 55     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 868    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | <1.0   | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-7107

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**Technical Management**

*Siriluk P.*

Siriluk Puengpang

Section Head

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

**Lot ID: 2391661**

Date Received : Aug 22, 2023

Date Reported : Aug 29, 2023

Report Number : 2760603-1

**Client** : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O** : 4800958141

**Project Name** :

**Project Location** :

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2391661-1   |
| <b>Sampled Date</b>            | Aug 22, 2023 11:10 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Aug 23, 2023  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | 2.4    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | 52     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.7    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 1012   | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.3    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By** : Thanwa Jariya ทะเบียนเลขที่ ว-204-จ-5414

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**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 2391662**

Date Received : Aug 29, 2023

Date Reported : Sep 05, 2023

Report Number : 2766807-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 2391662-1   |
| <b>Sampled Date</b>            | Aug 29, 2023 10:10 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Aug 30, 2023  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | 2.5    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | 54     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 1072   | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.9    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | 7      | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

Lot ID: 23103632

Date Received : Sep 05, 2023

Date Reported : Sep 12, 2023

Report Number : 2774338-1

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

P/O : 4800958141

Project Name :

Project Location :

Page 1 of 1

|                         |   |  |  |  |  |  |  |
|-------------------------|---|--|--|--|--|--|--|
| Sample Number           | 23103632-1  |  |  |  |  |  |  |
| Sampled Date            | Sep 05, 2023 2:30 PM  |  |  |  |  |  |  |
| Sample Description      | Wastewater  |  |  |  |  |  |  |
| Location                | บ่อบำบัดน้ำก่อนระบายออกนอกโรงงาน  |  |  |  |  |  |  |
| Date Analysis Commenced | Sep 06, 2023  |  |  |  |  |  |  |
| Condition of Sample     | Contained in one amber glass bottle, three plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | 3.3    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | 38     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.8    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 760    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 2.1    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By** : Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-7107

Remark :

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

Technical Management

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23103633**

Date Received : Sep 12, 2023

Date Reported : Sep 19, 2023

Report Number : 2781976-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

| <b>Sample Number</b>                             | 23103633-1  |      |           |        |                           |  |                  |
|--|---|------|-----------|--------|---------------------------|--|------------------|
| <b>Sampled Date</b>                              | Sep 12, 2023 10:30 AM   |      |           |        |                           |  |                  |
| <b>Sample Description</b>                        | Wastewater  |      |           |        |                           |  |                  |
| <b>Location</b>                                  | บ่อบำบัดน้ำก่อนระบายออกนอกโรงงาน  |      |           |        |                           |  |                  |
| <b>Date Analysis Commenced</b>                   | Sep 13, 2023  |      |           |        |                           |  |                  |
| <b>Condition of Sample</b>                       | Contained in one amber glass bottle, three plastic bottles and two BOD bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |      |           |        |                           |  |                  |
| Analyte  | Unit  | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
| <b>Water Testing</b>                             |   |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L  | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L  | -    | 25        | 32     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L  | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |   | -    | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L  | -    | 5         | 732    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L  | 0.15 | 1.0       | 1.5    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L  | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23103634**

Date Received : Sep 19, 2023

Date Reported : Sep 26, 2023

Report Number : 2789042-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |  |  |  |  |  |  |
|--------------------------------|---|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23103634-1  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Sep 19, 2023 11:40 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater  |  |  |  |  |  |  |
| <b>Location</b>                | บ่อพักน้ำก่อนระบายออกนอกโรงงาน  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Sep 20, 2023  |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, 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 |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.4    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 292    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | <1.0   | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23103635**

Date Received : Sep 26, 2023

Date Reported : Oct 03, 2023

Report Number : 2795921-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 23103635-1  |
| <b>Sampled Date</b>            | Sep 26, 2023 10:35 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Sep 27, 2023  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, 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 |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.3    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 292    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.2    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Chulladet Warin ทะเบียนเลขที่ ว-204-จ-6120

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Technical Management

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

Approved by

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23115539**

Date Received : Oct 03, 2023

Date Reported : Oct 10, 2023

Report Number : 2803080-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 23115539-1  |
| <b>Sampled Date</b>            | Oct 03, 2023 11:00 AM   |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Oct 04, 2023  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 8.0    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 288    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 1.2    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-7107

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**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810049-1

Page 1 of 2

| <b>Sample Number</b>                         | 23115511-3   |        |           |        |                           |  |                  |
|--|--|--------|-----------|--------|---------------------------|--|------------------|
| <b>Sampled Date</b>                          | Oct 10, 2023 9:25 AM   |        |           |        |                           |  |                  |
| <b>Sample Description</b>                    | Wastewater   |        |           |        |                           |  |                  |
| <b>Location</b>                              | บ่อกักน้ำก่อนระบายออกนอกโรงงาน   |        |           |        |                           |  |                  |
| <b>Date Analysis Commenced</b>               | Oct 11, 2023   |        |           |        |                           |  |                  |
| <b>Condition of Sample</b>                   | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |        |           |        |                           |  |                  |
| Analyte                                      | Unit   | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
| <b>Metals Testing</b>                        |  |        |           |        |                           |  |                  |
| Chromium                                     | mg/L   | 0.0003 | 0.0005    | 0.0005 | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| Manganese                                    | mg/L   | 0.0003 | 0.0005    | 0.17   | ≤5.0                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F          | Bangkok          |
| <b>Water Testing</b>                         |  |        |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                  | mg/L   | -      | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L   | -      | 25        | 46     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                               | mg/L   | -      | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                          |  | -      | -         | 7.7    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C | mg/L   | -      | 5         | 288    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *               | mg/L   | 0.15   | 1.0       | 1.1    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |

**Technical Management**

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

**Approved by**

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810049-1

Page 2 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-3   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:25 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater   |  |  |  |  |  |  |
| <b>Location</b>                | บ่อฟักน้ำก่อนระบายออกนอกโรงงาน   |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|--|------|-----|-----------|--------|---------------------------|---|------------------|
| <b>Water Testing</b>                             |      |     |           |        |                           |   |                  |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -   | 5         | 7      | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

Technical Management

*Chanatt L.*

Chanattagarn Imchom

Section Head

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanok Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23115540**

Date Received : Oct 17, 2023

Date Reported : Oct 25, 2023

Report Number : 2815765-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |
|--------------------------------|---|
| <b>Sample Number</b>           | 23115540-1  |
| <b>Sampled Date</b>            | Oct 17, 2023 9:58 AM  |
| <b>Sample Description</b>      | Wastewater  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |
| <b>Date Analysis Commenced</b> | Oct 18, 2023  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | 2.5    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | 36     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 7.5    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 300    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 2.1    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

*Suwimon C.*

Suwimon Chairuangwut

Scientist (3)

ทะเบียนเลขที่ ว-204-จ-5417

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 23115541**

Date Received : Oct 24, 2023

Date Reported : Oct 30, 2023

Report Number : 2820863-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

|                                |   |  |  |  |  |  |  |
|--------------------------------|---|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115541-1  |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 24, 2023 10:40 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Wastewater  |  |  |  |  |  |  |
| <b>Location</b>                | บ่อกักน้ำก่อนระบายออกนอกโรงงาน  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 25, 2023  |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                             |      |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L | -    | 2.0       | <2.0   | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L | -    | 25        | <25    | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |      | -    | -         | 8.1    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L | -    | 5         | 420    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L | 0.15 | 1.0       | 3.9    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Jiranat Khowlaor ทะเบียนเลขที่ ว-204-จ-7517

Remark :

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

**Technical Management**

*Siriluk P.*

Siriluk Puengpang

Section Head

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

**Lot ID: 23115542**

Date Received : Oct 31, 2023

Date Reported : Nov 07, 2023

Report Number : 2827534-1

**Client :** Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

Page 1 of 1

| <b>Sample Number</b>                             | 23115542-1  |      |           |        |                           |  |                  |
|--|---|------|-----------|--------|---------------------------|--|------------------|
| <b>Sampled Date</b>                              | Oct 31, 2023 10:30 AM   |      |           |        |                           |  |                  |
| <b>Sample Description</b>                        | Wastewater  |      |           |        |                           |  |                  |
| <b>Location</b>                                  | บ่อพักน้ำก่อนระบายออกนอกโรงงาน  |      |           |        |                           |  |                  |
| <b>Date Analysis Commenced</b>                   | Nov 01, 2023  |      |           |        |                           |  |                  |
| <b>Condition of Sample</b>                       | Contained in two BOD bottles, one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |      |           |        |                           |  |                  |
| Analyte  | Unit  | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
| <b>Water Testing</b>                             |   |      |           |        |                           |  |                  |
| BOD (5 days at 20 degree C)                      | mg/L  | -    | 2.0       | 2.6    | ≤20                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G | Bangkok          |
| COD  | mg/L  | -    | 25        | 37     | ≤120                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D                  | Bangkok          |
| Oil & Grease *                                   | mg/L  | -    | 3         | <3     | ≤5                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B                  | Bangkok          |
| pH at 25 degree C *                              |   | -    | -         | 7.9    | 5.5-9.0                   | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)            | Bangkok          |
| Total Dissolved solids Dried at 180 degree C     | mg/L  | -    | 5         | 456    | ≤3000                     | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C                  | Bangkok          |
| Total Kjeldahl Nitrogen as N *                   | mg/L  | 0.15 | 1.0       | 4.9    | ≤100                      | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)           | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C | mg/L  | -    | 5         | <5     | ≤50                       | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 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).

**Sampling By :** Teerawat Puangsuk ทะเบียนเลขที่ ว-204-จ-7107

Remark :

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

**Technical Management**

*Siriluk P.*

Siriluk Puengpang

Section Head

ทะเบียนเลขที่ ว-204-จ-4720

**Approved by**

*Kanokkorn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810050-1

Page 1 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-4   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:00 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Surface Water  |  |  |  |  |  |  |
| <b>Location</b>                | ห้วยน้ำมา : เหนือจุดระบายน้ำทั้ง 70 เมตร (SW1)   |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                       | Unit | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|-------------------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| <b>Metals Testing</b>         |      |        |           |        |                           |   |                  |
| Chromium                      | mg/L | 0.0003 | 0.0005    | 0.0008 | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| Iron                          | mg/L | 0.003  | 0.005     | 0.42   | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| Manganese                     | mg/L | 0.0003 | 0.0005    | 0.25   | ≤1                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| <b>Water Testing</b>          |      |        |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) * | mg/L | -      | 2.0       | <2.0   | ≤4                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Bangkok          |
| COD *                         | mg/L | -      | 25        | 37     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Bangkok          |
| Dissolved Oxygen *            | mg/L | -      | 0.1       | 5.7    | ≥2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)   | Bangkok          |
| Oil & Grease                  | mg/L | -      | 3         | <3     | No Standard               | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Bangkok          |
| pH at 25 degree C             |      | -      | -         | 8.0    | 5.0-9.0                   | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok          |

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810050-1

Page 2 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-4   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:00 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Surface Water  |  |  |  |  |  |  |
| <b>Location</b>                | ห้วยน้ำมา : เหนือจุดระบายน้ำทั้ง 70 เมตร (SW1)   |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                               |      |      |           |        |                           |  |                  |
| Total Dissolved solids Dried at 180 degree C *     | mg/L | -    | 5         | 380    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C        | Bangkok          |
| Total Kjeldahl Nitrogen as N *                     | mg/L | 0.15 | 1.0       | 3.8    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | -    | 5         | 27     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D        | Bangkok          |

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

**Sampling By :** Jiranat Khowlao

Remark :

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

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810051-1

Page 1 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-5   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:10 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Surface Water  |  |  |  |  |  |  |
| <b>Location</b>                | ห้วยน้ำมา : จุดระบายน้ำทิ้ง (SW2)  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                       | Unit | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|-------------------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| <b>Metals Testing</b>         |      |        |           |        |                           |   |                  |
| Chromium                      | mg/L | 0.0003 | 0.0005    | 0.001  | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| Iron                          | mg/L | 0.003  | 0.005     | 0.46   | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| Manganese                     | mg/L | 0.0003 | 0.0005    | 0.22   | ≤1                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| <b>Water Testing</b>          |      |        |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) * | mg/L | -      | 2.0       | <2.0   | ≤4                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Bangkok          |
| COD *                         | mg/L | -      | 25        | 41     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Bangkok          |
| Dissolved Oxygen *            | mg/L | -      | 0.1       | 4.9    | ≥2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)   | Bangkok          |
| Oil & Grease                  | mg/L | -      | 3         | <3     | No Standard               | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Bangkok          |
| pH at 25 degree C             |      | -      | -         | 8.1    | 5.0-9.0                   | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok          |

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810051-1

Page 2 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-5   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:10 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Surface Water  |  |  |  |  |  |  |
| <b>Location</b>                | ห้วยน้ำมา : จุดระบายน้ำทิ้ง (SW2)  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte  | Unit | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
|--|------|------|-----------|--------|---------------------------|--|------------------|
| <b>Water Testing</b>                               |      |      |           |        |                           |  |                  |
| Total Dissolved solids Dried at 180 degree C *     | mg/L | -    | 5         | 356    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C        | Bangkok          |
| Total Kjeldahl Nitrogen as N *                     | mg/L | 0.15 | 1.0       | 1.6    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L | -    | 5         | 23     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D        | Bangkok          |

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

**Sampling By :** Jiranat Khowlao

Remark :

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

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Approved by

*Chanatt L.*

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810052-1

Page 1 of 2

|                                |  |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|--|
| <b>Sample Number</b>           | 23115511-6   |  |  |  |  |  |  |
| <b>Sampled Date</b>            | Oct 10, 2023 9:15 AM   |  |  |  |  |  |  |
| <b>Sample Description</b>      | Surface Water  |  |  |  |  |  |  |
| <b>Location</b>                | ห้วยน้ำมา : ห้วยจตุระบายน้ำทั้ง (SW3)  |  |  |  |  |  |  |
| <b>Date Analysis Commenced</b> | Oct 11, 2023   |  |  |  |  |  |  |
| <b>Condition of Sample</b>     | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |  |  |  |  |  |  |

| Analyte                       | Unit | LOD    | LOQ (LOR) | Result | Guideline / Specification | Method  | Testing Location |
|-------------------------------|------|--------|-----------|--------|---------------------------|---|------------------|
| <b>Metals Testing</b>         |      |        |           |        |                           |   |                  |
| Chromium                      | mg/L | 0.0003 | 0.0005    | 0.0006 | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| Iron                          | mg/L | 0.003  | 0.005     | 0.37   | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| Manganese                     | mg/L | 0.0003 | 0.0005    | 0.20   | ≤1                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F                                     | Bangkok          |
| <b>Water Testing</b>          |      |        |           |        |                           |   |                  |
| BOD (5 days at 20 degree C) * | mg/L | -      | 2.0       | <2.0   | ≤4                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G                            | Bangkok          |
| COD *                         | mg/L | -      | 25        | 35     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D   | Bangkok          |
| Dissolved Oxygen *            | mg/L | -      | 0.1       | 5.9    | ≥2                        | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)   | Bangkok          |
| Oil & Grease                  | mg/L | -      | 3         | <3     | No Standard               | In-house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B       | Bangkok          |
| pH at 25 degree C             |      | -      | -         | 8.2    | 5.0-9.0                   | In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B) | Bangkok          |

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*Chanatt L.*

Chanattagarn Imchom  
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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**TESTING**

**No.0009**

**Lot ID: 23115511**

Date Received : Oct 10, 2023

Date Reported : Oct 18, 2023

Report Number : 2810052-1

Page 2 of 2

| <b>Sample Number</b>                               | 23115511-6   |      |           |        |                           |  |                  |
|--|--|------|-----------|--------|---------------------------|--|------------------|
| <b>Sampled Date</b>                                | Oct 10, 2023 9:15 AM   |      |           |        |                           |  |                  |
| <b>Sample Description</b>                          | Surface Water  |      |           |        |                           |  |                  |
| <b>Location</b>                                    | ห้วยน้ำมา : ห้วยจตุระบายน้ำทั้ง (SW3)  |      |           |        |                           |  |                  |
| <b>Date Analysis Commenced</b>                     | Oct 11, 2023   |      |           |        |                           |  |                  |
| <b>Condition of Sample</b>                         | Contained in two BOD bottles, one amber glass bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |      |           |        |                           |  |                  |
| Analyte  | Unit   | LOD  | LOQ (LOR) | Result | Guideline / Specification | Method   | Testing Location |
| <b>Water Testing</b>                               |  |      |           |        |                           |  |                  |
| Total Dissolved solids Dried at 180 degree C *     | mg/L   | -    | 5         | 351    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C        | Bangkok          |
| Total Kjeldahl Nitrogen as N *                     | mg/L   | 0.15 | 1.0       | 1.2    | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C) | Bangkok          |
| Total Suspended Solids Dried at 103-105 degree C * | mg/L   | -    | 5         | 20     | No Standard               | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D        | Bangkok          |

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

**Sampling By :** Jiranat Khowlao

Remark :

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

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Approved by

*Chanatt L.*

Chanattagarn Imchom  
Section Head

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## ภาคผนวก ค-4

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ระดับเสียงโดยทั่วไป



## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735728-1

Page 1 of 1

**Sample Number** 2381419-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N1 (GPS 47P 0696994, 1616222)  
**Measurement Date** Jul 15 - Jul 16, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 658244

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 61.1        | 84.3         | 55.3        |
| 09:00 AM - 10:00 AM | 59.5        | 73.8         | 54.5        |
| 10:00 AM - 11:00 AM | 59.7        | 75.0         | 54.4        |
| 11:00 AM - 12:00 PM | 58.1        | 71.2         | 53.9        |
| 12:00 PM - 01:00 PM | 59.2        | 76.1         | 52.9        |
| 01:00 PM - 02:00 PM | 63.9        | 95.2         | 54.7        |
| 02:00 PM - 03:00 PM | 60.0        | 75.3         | 54.5        |
| 03:00 PM - 04:00 PM | 59.6        | 76.6         | 53.8        |
| 04:00 PM - 05:00 PM | 58.6        | 73.8         | 53.9        |
| 05:00 PM - 06:00 PM | 64.4        | 93.6         | 54.7        |
| 06:00 PM - 07:00 PM | 63.6        | 91.0         | 54.7        |
| 07:00 PM - 08:00 PM | 59.3        | 75.7         | 54.1        |
| 08:00 PM - 09:00 PM | 58.6        | 74.0         | 54.8        |
| 09:00 PM - 10:00 PM | 58.7        | 74.5         | 54.6        |
| 10:00 PM - 11:00 PM | 64.6        | 88.0         | 55.5        |
| 11:00 PM - 12:00 AM | 58.4        | 76.1         | 54.1        |
| 12:00 AM - 01:00 AM | 57.2        | 74.8         | 54.5        |
| 01:00 AM - 02:00 AM | 57.0        | 70.0         | 54.3        |
| 02:00 AM - 03:00 AM | 57.9        | 73.9         | 55.8        |
| 03:00 AM - 04:00 AM | 63.7        | 88.5         | 55.1        |
| 04:00 AM - 05:00 AM | 58.3        | 75.4         | 56.0        |
| 05:00 AM - 06:00 AM | 59.2        | 74.5         | 56.7        |
| 06:00 AM - 07:00 AM | 64.1        | 88.9         | 55.6        |
| 07:00 AM - 08:00 AM | 59.9        | 75.9         | 54.7        |

Leq Average 24 hrs. (dB(A)) 60.9  
Lmax (dB(A)) 95.2  
L90 (dB(A)) 54.6  
Ldn (dB(A)) 67.5  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735729-1

Page 1 of 1

**Sample Number** 2381419-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N1 (GPS 47P 0696994, 1616222)  
**Measurement Date** Jul 16 - Jul 17, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 658244

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 58.9        | 75.4         | 54.5        |
| 09:00 AM - 10:00 AM | 59.5        | 73.2         | 54.8        |
| 10:00 AM - 11:00 AM | 58.7        | 73.8         | 54.5        |
| 11:00 AM - 12:00 PM | 58.4        | 71.1         | 54.3        |
| 12:00 PM - 01:00 PM | 59.3        | 69.3         | 53.9        |
| 01:00 PM - 02:00 PM | 59.2        | 74.2         | 54.2        |
| 02:00 PM - 03:00 PM | 61.7        | 89.1         | 53.9        |
| 03:00 PM - 04:00 PM | 57.2        | 75.1         | 53.5        |
| 04:00 PM - 05:00 PM | 56.7        | 70.8         | 53.7        |
| 05:00 PM - 06:00 PM | 56.6        | 73.6         | 53.5        |
| 06:00 PM - 07:00 PM | 57.8        | 76.2         | 54.7        |
| 07:00 PM - 08:00 PM | 57.9        | 76.2         | 54.7        |
| 08:00 PM - 09:00 PM | 57.2        | 72.0         | 54.4        |
| 09:00 PM - 10:00 PM | 57.1        | 69.6         | 54.4        |
| 10:00 PM - 11:00 PM | 60.7        | 77.2         | 54.7        |
| 11:00 PM - 12:00 AM | 61.7        | 78.0         | 54.3        |
| 12:00 AM - 01:00 AM | 60.6        | 78.3         | 53.7        |
| 01:00 AM - 02:00 AM | 59.9        | 77.6         | 54.5        |
| 02:00 AM - 03:00 AM | 60.2        | 78.0         | 54.7        |
| 03:00 AM - 04:00 AM | 57.3        | 68.5         | 54.9        |
| 04:00 AM - 05:00 AM | 63.4        | 86.6         | 55.0        |
| 05:00 AM - 06:00 AM | 60.3        | 77.6         | 56.5        |
| 06:00 AM - 07:00 AM | 59.8        | 76.3         | 56.6        |
| 07:00 AM - 08:00 AM | 64.0        | 78.9         | 56.4        |

Leq Average 24 hrs. (dB(A)) 59.8  
Lmax (dB(A)) 89.1  
L90 (dB(A)) 54.5  
Ldn (dB(A)) 66.9  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735730-1

Page 1 of 1

**Sample Number** 2381419-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N1 (GPS 47P 0696994, 1616222)  
**Measurement Date** Jul 17 - Jul 18, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 658244

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 62.7        | 87.3         | 56.4        |
| 09:00 AM - 10:00 AM | 62.6        | 83.2         | 56.1        |
| 10:00 AM - 11:00 AM | 66.3        | 83.8         | 57.3        |
| 11:00 AM - 12:00 PM | 66.3        | 82.1         | 57.1        |
| 12:00 PM - 01:00 PM | 60.9        | 78.9         | 55.9        |
| 01:00 PM - 02:00 PM | 59.7        | 78.1         | 54.8        |
| 02:00 PM - 03:00 PM | 64.1        | 90.9         | 57.1        |
| 03:00 PM - 04:00 PM | 60.7        | 79.1         | 55.4        |
| 04:00 PM - 05:00 PM | 60.5        | 76.1         | 54.5        |
| 05:00 PM - 06:00 PM | 60.5        | 78.7         | 54.8        |
| 06:00 PM - 07:00 PM | 61.8        | 83.8         | 55.5        |
| 07:00 PM - 08:00 PM | 61.8        | 79.0         | 55.1        |
| 08:00 PM - 09:00 PM | 59.4        | 81.4         | 54.3        |
| 09:00 PM - 10:00 PM | 56.9        | 72.3         | 53.0        |
| 10:00 PM - 11:00 PM | 61.9        | 79.6         | 53.4        |
| 11:00 PM - 12:00 AM | 62.0        | 78.7         | 52.6        |
| 12:00 AM - 01:00 AM | 60.0        | 77.1         | 52.8        |
| 01:00 AM - 02:00 AM | 61.0        | 78.1         | 54.9        |
| 02:00 AM - 03:00 AM | 61.7        | 78.1         | 55.3        |
| 03:00 AM - 04:00 AM | 64.0        | 79.8         | 55.6        |
| 04:00 AM - 05:00 AM | 60.0        | 76.2         | 55.8        |
| 05:00 AM - 06:00 AM | 59.2        | 71.8         | 55.7        |
| 06:00 AM - 07:00 AM | 63.0        | 78.7         | 56.8        |
| 07:00 AM - 08:00 AM | 64.5        | 78.1         | 56.9        |

Leq Average 24 hrs. (dB(A)) 62.3  
Lmax (dB(A)) 90.9  
L90 (dB(A)) 55.4  
Ldn (dB(A)) 68.2

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735731-1

Page 1 of 1

**Sample Number** 2381419-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N2 (GPS 47P 0696848, 1616192)  
**Measurement Date** Jul 15 - Jul 16, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 296512

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 55.5        | 72.5         | 54.2        |
| 09:00 AM - 10:00 AM | 56.3        | 75.0         | 54.4        |
| 10:00 AM - 11:00 AM | 56.4        | 74.9         | 53.7        |
| 11:00 AM - 12:00 PM | 55.3        | 75.7         | 52.6        |
| 12:00 PM - 01:00 PM | 56.5        | 78.6         | 53.7        |
| 01:00 PM - 02:00 PM | 55.4        | 72.0         | 54.0        |
| 02:00 PM - 03:00 PM | 56.7        | 70.7         | 54.1        |
| 03:00 PM - 04:00 PM | 59.2        | 69.8         | 54.6        |
| 04:00 PM - 05:00 PM | 55.9        | 77.3         | 53.8        |
| 05:00 PM - 06:00 PM | 55.4        | 69.2         | 53.8        |
| 06:00 PM - 07:00 PM | 58.4        | 79.3         | 55.1        |
| 07:00 PM - 08:00 PM | 59.9        | 71.2         | 55.0        |
| 08:00 PM - 09:00 PM | 59.8        | 71.3         | 54.5        |
| 09:00 PM - 10:00 PM | 59.7        | 70.8         | 54.9        |
| 10:00 PM - 11:00 PM | 59.8        | 68.8         | 54.8        |
| 11:00 PM - 12:00 AM | 58.3        | 70.5         | 54.6        |
| 12:00 AM - 01:00 AM | 57.4        | 67.1         | 54.5        |
| 01:00 AM - 02:00 AM | 56.0        | 67.5         | 54.8        |
| 02:00 AM - 03:00 AM | 55.6        | 66.1         | 54.7        |
| 03:00 AM - 04:00 AM | 56.4        | 67.4         | 55.8        |
| 04:00 AM - 05:00 AM | 56.1        | 67.6         | 55.0        |
| 05:00 AM - 06:00 AM | 59.9        | 72.9         | 56.7        |
| 06:00 AM - 07:00 AM | 59.3        | 83.2         | 56.2        |
| 07:00 AM - 08:00 AM | 57.0        | 79.6         | 55.0        |

Leq Average 24 hrs. (dB(A)) 57.7  
Lmax (dB(A)) 83.2  
L90 (dB(A)) 54.6  
Ldn (dB(A)) 64.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735732-1

Page 1 of 1

**Sample Number** 2381419-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณเริ่มรั้วโรงงาน N2 (GPS 47P 0696848, 1616192)  
**Measurement Date** Jul 16 - Jul 17, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 296512

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 56.6        | 70.9         | 55.1        |
| 09:00 AM - 10:00 AM | 55.2        | 70.9         | 53.7        |
| 10:00 AM - 11:00 AM | 55.5        | 70.5         | 54.1        |
| 11:00 AM - 12:00 PM | 55.7        | 71.6         | 54.3        |
| 12:00 PM - 01:00 PM | 55.3        | 68.1         | 54.0        |
| 01:00 PM - 02:00 PM | 54.9        | 67.1         | 53.7        |
| 02:00 PM - 03:00 PM | 54.7        | 74.5         | 53.4        |
| 03:00 PM - 04:00 PM | 55.2        | 67.2         | 53.9        |
| 04:00 PM - 05:00 PM | 55.4        | 72.0         | 54.0        |
| 05:00 PM - 06:00 PM | 55.6        | 73.3         | 54.1        |
| 06:00 PM - 07:00 PM | 58.5        | 77.9         | 55.6        |
| 07:00 PM - 08:00 PM | 59.2        | 74.4         | 55.6        |
| 08:00 PM - 09:00 PM | 56.0        | 68.5         | 55.1        |
| 09:00 PM - 10:00 PM | 55.2        | 65.7         | 54.5        |
| 10:00 PM - 11:00 PM | 56.1        | 65.4         | 55.3        |
| 11:00 PM - 12:00 AM | 55.5        | 66.3         | 54.2        |
| 12:00 AM - 01:00 AM | 55.2        | 65.2         | 54.4        |
| 01:00 AM - 02:00 AM | 55.3        | 67.1         | 54.3        |
| 02:00 AM - 03:00 AM | 55.2        | 66.5         | 54.4        |
| 03:00 AM - 04:00 AM | 55.4        | 66.4         | 54.3        |
| 04:00 AM - 05:00 AM | 56.3        | 70.1         | 55.2        |
| 05:00 AM - 06:00 AM | 59.5        | 74.0         | 56.4        |
| 06:00 AM - 07:00 AM | 59.1        | 72.8         | 55.4        |
| 07:00 AM - 08:00 AM | 56.5        | 77.1         | 54.9        |

Leq Average 24 hrs. (dB(A)) 56.4  
Lmax (dB(A)) 77.9  
L90 (dB(A)) 54.3  
Ldn (dB(A)) 63.1  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735733-1

Page 1 of 1

**Sample Number** 2381419-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N2 (GPS 47P 0696848, 1616192)  
**Measurement Date** Jul 17 - Jul 18, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 296512

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 56.7        | 69.4         | 55.1        |
| 09:00 AM - 10:00 AM | 57.5        | 72.5         | 55.2        |
| 10:00 AM - 11:00 AM | 57.5        | 68.7         | 55.4        |
| 11:00 AM - 12:00 PM | 56.7        | 73.7         | 54.9        |
| 12:00 PM - 01:00 PM | 58.3        | 78.9         | 55.3        |
| 01:00 PM - 02:00 PM | 56.3        | 77.1         | 54.3        |
| 02:00 PM - 03:00 PM | 56.5        | 76.6         | 54.3        |
| 03:00 PM - 04:00 PM | 56.4        | 72.8         | 54.1        |
| 04:00 PM - 05:00 PM | 56.4        | 82.1         | 54.6        |
| 05:00 PM - 06:00 PM | 57.3        | 92.6         | 53.9        |
| 06:00 PM - 07:00 PM | 55.6        | 64.9         | 53.4        |
| 07:00 PM - 08:00 PM | 58.5        | 72.7         | 52.1        |
| 08:00 PM - 09:00 PM | 53.3        | 69.9         | 50.1        |
| 09:00 PM - 10:00 PM | 55.2        | 68.3         | 52.0        |
| 10:00 PM - 11:00 PM | 58.5        | 72.4         | 53.3        |
| 11:00 PM - 12:00 AM | 60.2        | 69.0         | 52.6        |
| 12:00 AM - 01:00 AM | 56.3        | 68.2         | 54.1        |
| 01:00 AM - 02:00 AM | 55.5        | 72.2         | 54.6        |
| 02:00 AM - 03:00 AM | 55.8        | 71.0         | 54.7        |
| 03:00 AM - 04:00 AM | 55.7        | 70.9         | 54.8        |
| 04:00 AM - 05:00 AM | 55.9        | 70.7         | 55.0        |
| 05:00 AM - 06:00 AM | 58.8        | 75.5         | 55.7        |
| 06:00 AM - 07:00 AM | 59.1        | 74.8         | 56.2        |
| 07:00 AM - 08:00 AM | 56.3        | 81.0         | 54.8        |

Leq Average 24 hrs. (dB(A)) 57.1  
Lmax (dB(A)) 92.6  
L90 (dB(A)) 54.6  
Ldn (dB(A)) 63.9  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735734-1

Page 1 of 1

**Sample Number** 2381419-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N3 (GPS 47P 0696880, 1616060)  
**Measurement Date** Jul 15 - Jul 16, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 858517

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 62.8        | 72.1         | 59.8        |
| 09:00 AM - 10:00 AM | 61.4        | 86.9         | 57.3        |
| 10:00 AM - 11:00 AM | 61.4        | 83.5         | 59.0        |
| 11:00 AM - 12:00 PM | 61.7        | 72.2         | 59.1        |
| 12:00 PM - 01:00 PM | 61.9        | 76.2         | 58.9        |
| 01:00 PM - 02:00 PM | 60.7        | 83.6         | 57.6        |
| 02:00 PM - 03:00 PM | 62.9        | 95.3         | 58.6        |
| 03:00 PM - 04:00 PM | 60.2        | 80.0         | 58.3        |
| 04:00 PM - 05:00 PM | 60.2        | 85.2         | 57.3        |
| 05:00 PM - 06:00 PM | 61.0        | 78.0         | 59.0        |
| 06:00 PM - 07:00 PM | 62.4        | 82.7         | 59.6        |
| 07:00 PM - 08:00 PM | 67.4        | 78.2         | 60.4        |
| 08:00 PM - 09:00 PM | 61.3        | 68.1         | 58.5        |
| 09:00 PM - 10:00 PM | 60.5        | 68.0         | 59.0        |
| 10:00 PM - 11:00 PM | 62.7        | 87.7         | 60.2        |
| 11:00 PM - 12:00 AM | 60.7        | 67.4         | 57.9        |
| 12:00 AM - 01:00 AM | 59.9        | 73.4         | 57.4        |
| 01:00 AM - 02:00 AM | 60.8        | 74.6         | 57.9        |
| 02:00 AM - 03:00 AM | 61.0        | 67.2         | 58.9        |
| 03:00 AM - 04:00 AM | 60.6        | 66.6         | 58.0        |
| 04:00 AM - 05:00 AM | 61.9        | 73.2         | 59.4        |
| 05:00 AM - 06:00 AM | 69.0        | 78.5         | 63.8        |
| 06:00 AM - 07:00 AM | 66.7        | 82.5         | 61.5        |
| 07:00 AM - 08:00 AM | 60.8        | 84.6         | 58.2        |

Leq Average 24 hrs. (dB(A)) 62.9  
Lmax (dB(A)) 95.3  
L90 (dB(A)) 58.9  
Ldn (dB(A)) 70.1  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735735-1

Page 1 of 1

**Sample Number** 2381419-8  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N3 (GPS 47P 0696880, 1616060)  
**Measurement Date** Jul 16 - Jul 17, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 858517

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 62.8        | 72.1         | 59.8        |
| 09:00 AM - 10:00 AM | 61.4        | 86.9         | 57.3        |
| 10:00 AM - 11:00 AM | 61.6        | 81.8         | 59.4        |
| 11:00 AM - 12:00 PM | 61.6        | 75.1         | 58.6        |
| 12:00 PM - 01:00 PM | 61.2        | 76.1         | 59.1        |
| 01:00 PM - 02:00 PM | 60.9        | 81.6         | 58.4        |
| 02:00 PM - 03:00 PM | 61.0        | 90.9         | 57.5        |
| 03:00 PM - 04:00 PM | 60.7        | 67.8         | 58.8        |
| 04:00 PM - 05:00 PM | 60.5        | 69.0         | 58.3        |
| 05:00 PM - 06:00 PM | 61.2        | 78.8         | 58.9        |
| 06:00 PM - 07:00 PM | 63.0        | 75.4         | 59.2        |
| 07:00 PM - 08:00 PM | 68.9        | 85.0         | 60.3        |
| 08:00 PM - 09:00 PM | 61.2        | 69.4         | 59.0        |
| 09:00 PM - 10:00 PM | 62.9        | 77.2         | 60.0        |
| 10:00 PM - 11:00 PM | 62.4        | 74.0         | 60.5        |
| 11:00 PM - 12:00 AM | 61.4        | 83.5         | 59.0        |
| 12:00 AM - 01:00 AM | 61.7        | 72.2         | 59.1        |
| 01:00 AM - 02:00 AM | 60.6        | 71.2         | 57.6        |
| 02:00 AM - 03:00 AM | 60.7        | 70.5         | 58.2        |
| 03:00 AM - 04:00 AM | 59.4        | 80.4         | 56.9        |
| 04:00 AM - 05:00 AM | 62.3        | 74.9         | 58.2        |
| 05:00 AM - 06:00 AM | 69.0        | 78.2         | 64.0        |
| 06:00 AM - 07:00 AM | 66.4        | 81.0         | 59.7        |
| 07:00 AM - 08:00 AM | 62.8        | 74.0         | 60.7        |

Leq Average 24 hrs. (dB(A)) 63.2  
Lmax (dB(A)) 90.9  
L90 (dB(A)) 59.0  
Ldn (dB(A)) 70.1  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
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**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735736-1

Page 1 of 1

**Sample Number** 2381419-9  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณเริ่มรั้วโรงงาน N3 (GPS 47P 0696880, 1616060)  
**Measurement Date** Jul 17 - Jul 18, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 858517

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 63.1        | 75.9         | 60.0        |
| 09:00 AM - 10:00 AM | 61.3        | 82.2         | 58.2        |
| 10:00 AM - 11:00 AM | 61.4        | 77.2         | 58.6        |
| 11:00 AM - 12:00 PM | 61.1        | 85.7         | 58.4        |
| 12:00 PM - 01:00 PM | 61.4        | 72.6         | 59.1        |
| 01:00 PM - 02:00 PM | 60.7        | 85.6         | 57.7        |
| 02:00 PM - 03:00 PM | 61.3        | 76.1         | 59.0        |
| 03:00 PM - 04:00 PM | 61.6        | 93.9         | 57.0        |
| 04:00 PM - 05:00 PM | 61.0        | 74.1         | 58.4        |
| 05:00 PM - 06:00 PM | 62.3        | 85.0         | 60.1        |
| 06:00 PM - 07:00 PM | 61.6        | 77.3         | 59.8        |
| 07:00 PM - 08:00 PM | 68.9        | 80.4         | 61.2        |
| 08:00 PM - 09:00 PM | 61.3        | 70.2         | 57.8        |
| 09:00 PM - 10:00 PM | 62.1        | 96.4         | 55.8        |
| 10:00 PM - 11:00 PM | 57.7        | 68.2         | 55.4        |
| 11:00 PM - 12:00 AM | 58.5        | 69.9         | 55.9        |
| 12:00 AM - 01:00 AM | 58.0        | 70.9         | 56.0        |
| 01:00 AM - 02:00 AM | 57.9        | 66.4         | 56.3        |
| 02:00 AM - 03:00 AM | 60.3        | 86.9         | 56.5        |
| 03:00 AM - 04:00 AM | 62.2        | 87.9         | 57.4        |
| 04:00 AM - 05:00 AM | 62.8        | 70.6         | 60.4        |
| 05:00 AM - 06:00 AM | 65.8        | 75.8         | 61.3        |
| 06:00 AM - 07:00 AM | 69.1        | 81.6         | 62.4        |
| 07:00 AM - 08:00 AM | 65.3        | 95.6         | 58.5        |

Leq Average 24 hrs. (dB(A)) 63.1  
Lmax (dB(A)) 96.4  
L90 (dB(A)) 58.4  
Ldn (dB(A)) 69.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735737-1

Page 1 of 1

**Sample Number** 2381419-10  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N4 (GPS 47P 0697115, 1615985)  
**Measurement Date** Jul 15 - Jul 16, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 296511

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 57.0        | 78.6         | 51.5        |
| 09:00 AM - 10:00 AM | 56.8        | 83.1         | 50.8        |
| 10:00 AM - 11:00 AM | 56.3        | 78.1         | 50.9        |
| 11:00 AM - 12:00 PM | 56.3        | 80.2         | 51.0        |
| 12:00 PM - 01:00 PM | 55.5        | 64.0         | 50.6        |
| 01:00 PM - 02:00 PM | 55.0        | 71.3         | 51.0        |
| 02:00 PM - 03:00 PM | 56.4        | 74.6         | 51.5        |
| 03:00 PM - 04:00 PM | 56.4        | 72.5         | 51.9        |
| 04:00 PM - 05:00 PM | 56.7        | 73.4         | 51.2        |
| 05:00 PM - 06:00 PM | 54.6        | 84.3         | 50.0        |
| 06:00 PM - 07:00 PM | 52.7        | 63.6         | 49.4        |
| 07:00 PM - 08:00 PM | 51.6        | 67.4         | 48.6        |
| 08:00 PM - 09:00 PM | 54.8        | 68.9         | 52.3        |
| 09:00 PM - 10:00 PM | 54.3        | 74.0         | 51.4        |
| 10:00 PM - 11:00 PM | 52.9        | 66.2         | 51.3        |
| 11:00 PM - 12:00 AM | 55.5        | 73.6         | 51.6        |
| 12:00 AM - 01:00 AM | 53.9        | 73.3         | 50.1        |
| 01:00 AM - 02:00 AM | 54.6        | 84.3         | 50.0        |
| 02:00 AM - 03:00 AM | 51.8        | 62.3         | 50.1        |
| 03:00 AM - 04:00 AM | 53.0        | 70.7         | 50.6        |
| 04:00 AM - 05:00 AM | 54.5        | 67.6         | 51.4        |
| 05:00 AM - 06:00 AM | 55.5        | 64.0         | 50.6        |
| 06:00 AM - 07:00 AM | 54.6        | 84.3         | 50.0        |
| 07:00 AM - 08:00 AM | 52.7        | 63.6         | 49.4        |

Leq Average 24 hrs. (dB(A)) 55.0  
Lmax (dB(A)) 84.3  
L90 (dB(A)) 50.8  
Ldn (dB(A)) 60.8  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735738-1

Page 1 of 1

**Sample Number** 2381419-11  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N4 (GPS 47P 0697115, 1615985)  
**Measurement Date** Jul 16 - Jul 17, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 296511

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 51.6        | 67.4         | 48.6        |
| 09:00 AM - 10:00 AM | 56.6        | 88.7         | 52.0        |
| 10:00 AM - 11:00 AM | 56.4        | 79.4         | 52.7        |
| 11:00 AM - 12:00 PM | 55.3        | 72.1         | 50.1        |
| 12:00 PM - 01:00 PM | 55.5        | 80.0         | 50.7        |
| 01:00 PM - 02:00 PM | 56.5        | 87.9         | 51.8        |
| 02:00 PM - 03:00 PM | 55.7        | 88.1         | 50.3        |
| 03:00 PM - 04:00 PM | 55.1        | 75.9         | 50.9        |
| 04:00 PM - 05:00 PM | 54.4        | 69.2         | 50.2        |
| 05:00 PM - 06:00 PM | 54.8        | 68.1         | 50.6        |
| 06:00 PM - 07:00 PM | 57.9        | 77.1         | 51.6        |
| 07:00 PM - 08:00 PM | 53.2        | 66.9         | 49.9        |
| 08:00 PM - 09:00 PM | 53.4        | 66.1         | 50.3        |
| 09:00 PM - 10:00 PM | 54.8        | 68.9         | 52.3        |
| 10:00 PM - 11:00 PM | 54.3        | 74.0         | 51.4        |
| 11:00 PM - 12:00 AM | 52.9        | 66.2         | 51.3        |
| 12:00 AM - 01:00 AM | 53.7        | 70.3         | 51.4        |
| 01:00 AM - 02:00 AM | 52.2        | 66.4         | 50.3        |
| 02:00 AM - 03:00 AM | 51.8        | 62.3         | 50.1        |
| 03:00 AM - 04:00 AM | 53.0        | 70.7         | 50.6        |
| 04:00 AM - 05:00 AM | 54.5        | 67.6         | 51.4        |
| 05:00 AM - 06:00 AM | 59.4        | 74.5         | 53.1        |
| 06:00 AM - 07:00 AM | 55.0        | 71.3         | 51.0        |
| 07:00 AM - 08:00 AM | 56.4        | 74.6         | 51.5        |

Leq Average 24 hrs. (dB(A)) 55.2  
Lmax (dB(A)) 88.7  
L90 (dB(A)) 50.9  
Ldn (dB(A)) 61.3  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381419**

Date Received : Jul 24, 2023

Date Reported : Aug 03, 2023

Report Number: 2735739-1

Page 1 of 1

**Sample Number** 2381419-12  
**Parameter** Noise (Leq 24 hrs.)  
**Location** บริเวณริมรั้วโรงงาน N4 (GPS 47P 0697115, 1615985)  
**Measurement Date** Jul 17 - Jul 18, 2023  
**Measurement by** Vanich Phanpipit  
**Sound Level meter** Serial No. 296511

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 08:00 AM - 09:00 AM | 56.4        | 72.5         | 51.9        |
| 09:00 AM - 10:00 AM | 56.7        | 73.4         | 51.2        |
| 10:00 AM - 11:00 AM | 57.3        | 85.4         | 51.8        |
| 11:00 AM - 12:00 PM | 56.8        | 72.9         | 51.9        |
| 12:00 PM - 01:00 PM | 55.3        | 77.5         | 51.4        |
| 01:00 PM - 02:00 PM | 57.5        | 87.1         | 51.9        |
| 02:00 PM - 03:00 PM | 56.0        | 77.3         | 51.0        |
| 03:00 PM - 04:00 PM | 55.1        | 71.1         | 51.1        |
| 04:00 PM - 05:00 PM | 56.6        | 88.7         | 52.0        |
| 05:00 PM - 06:00 PM | 56.4        | 79.4         | 52.7        |
| 06:00 PM - 07:00 PM | 58.0        | 74.6         | 51.6        |
| 07:00 PM - 08:00 PM | 55.5        | 73.6         | 51.6        |
| 08:00 PM - 09:00 PM | 53.9        | 73.3         | 50.1        |
| 09:00 PM - 10:00 PM | 54.6        | 84.3         | 50.0        |
| 10:00 PM - 11:00 PM | 52.7        | 63.6         | 49.4        |
| 11:00 PM - 12:00 AM | 51.6        | 67.4         | 48.6        |
| 12:00 AM - 01:00 AM | 52.0        | 76.3         | 48.3        |
| 01:00 AM - 02:00 AM | 51.8        | 66.3         | 49.1        |
| 02:00 AM - 03:00 AM | 53.5        | 75.0         | 50.1        |
| 03:00 AM - 04:00 AM | 52.9        | 66.4         | 50.5        |
| 04:00 AM - 05:00 AM | 53.2        | 71.0         | 50.4        |
| 05:00 AM - 06:00 AM | 59.7        | 72.7         | 54.9        |
| 06:00 AM - 07:00 AM | 56.7        | 85.6         | 51.0        |
| 07:00 AM - 08:00 AM | 56.6        | 75.7         | 50.3        |

Leq Average 24 hrs. (dB(A)) 55.8  
Lmax (dB(A)) 88.7  
L90 (dB(A)) 51.0  
Ldn (dB(A)) 61.4  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 233852

Date Received :Jan 20, 2023

Date Reported :Jan 21, 2023

Report Number : 2548786-1

P/O :

Project Name :

Project Location :

Page 1 of 3

Sample No. 233852-1  
Parameter เสียงรบกวน  
Location หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158)  
Measurement Date Jan 17 - 18, 2023  
Measurement by Thananat Anake  
Sound Level Meter 00658243

### ระดับเสียง (dB(A))

| เวลา                | เสียงจาก<br>แหล่งกำเนิด (A) | เสียงขณะ<br>ไม่มีการรบกวน (B) | ผลต่าง<br>ระดับเสียง (A-B) | ตัวปรับค่า (C) | ปรับค่าเสียงจากแหล่งกำเนิด (B) |                 | เสียงพื้นฐาน (E) | ค่าระดับ<br>การรบกวน (D-E) |
|---------------------|-----------------------------|-------------------------------|----------------------------|----------------|--------------------------------|-----------------|------------------|----------------------------|
|                     |                             |                               |                            |                | กลางวัน (A-C)                  | กลางคืน (A-C)+3 |                  |                            |
| 11:00 AM - 12:00 PM | 55.9                        | 50.3                          | 5.6                        | 1.5            | 54.4                           | -               | 38.4             | 16.0                       |
| 12:00 PM - 01:00 PM | 52.0                        | 49.9                          | 2.1                        | 4.5            | 47.5                           | -               | 37.9             | 9.6                        |
| 01:00 PM - 02:00 PM | 50.3                        | 46.5                          | 3.8                        | 2.0            | 48.3                           | -               | 37.9             | 10.4                       |
| 02:00 PM - 03:00 PM | 53.8                        | 51.8                          | 2.0                        | 4.5            | 49.3                           | -               | 36.1             | 13.2                       |
| 03:00 PM - 04:00 PM | 51.8                        | 47.4                          | 4.4                        | 2.0            | 49.8                           | -               | 36.7             | 13.1                       |
| 04:00 PM - 05:00 PM | 48.9                        | 45.8                          | 3.1                        | 3.0            | 45.9                           | -               | 37.0             | 8.9                        |
| 05:00 PM - 06:00 PM | 47.8                        | 46.7                          | 1.1                        | 7.0            | 40.8                           | -               | 37.2             | 3.6                        |
| 06:00 PM - 07:00 PM | 47.5                        | 47.6                          | -0.1                       | 7.0            | 40.5                           | -               | 42.4             | -1.9                       |
| 07:00 PM - 08:00 PM | 56.8                        | 49.6                          | 7.2                        | 1.0            | 55.8                           | -               | 44.4             | 11.4                       |
| 08:00 PM - 09:00 PM | 44.3                        | 44.2                          | 0.1                        | 7.0            | 37.3                           | -               | 40.8             | -3.5                       |
| 09:00 PM - 10:00 PM | 48.1                        | 49.4                          | -1.3                       | 7.0            | 41.1                           | -               | 39.6             | 1.5                        |
| 10:00 PM - 10:05 PM | 44.3                        | 44.6                          | -0.3                       | 7.0            | -                              | 40.3            | 39.5             | 0.8                        |
| 10:05 PM - 10:10 PM | 43.7                        | 41.1                          | 2.6                        | 3.0            | -                              | 43.7            | 40.0             | 3.7                        |
| 10:10 PM - 10:15 PM | 44.7                        | 43.8                          | 0.9                        | 7.0            | -                              | 40.7            | 42.1             | -1.4                       |
| 10:15 PM - 10:20 PM | 45.9                        | 45.7                          | 0.2                        | 7.0            | -                              | 41.9            | 42.9             | -1.0                       |
| 10:20 PM - 10:25 PM | 47.0                        | 43.6                          | 3.4                        | 3.0            | -                              | 47.0            | 42.2             | 4.8                        |
| 10:25 PM - 10:30 PM | 45.1                        | 44.2                          | 0.9                        | 7.0            | -                              | 41.1            | 42.5             | -1.4                       |
| 10:30 PM - 10:35 PM | 46.1                        | 46.1                          | 0.0                        | 7.0            | -                              | 42.1            | 44.9             | -2.8                       |
| 10:35 PM - 10:40 PM | 45.7                        | 46.5                          | -0.8                       | 7.0            | -                              | 41.7            | 45.6             | -3.9                       |
| 10:40 PM - 10:45 PM | 45.5                        | 46.2                          | -0.7                       | 7.0            | -                              | 41.5            | 45.5             | -4.0                       |
| 10:45 PM - 10:50 PM | 46.1                        | 46.1                          | 0.0                        | 7.0            | -                              | 42.1            | 45.2             | -3.1                       |
| 10:50 PM - 10:55 PM | 45.3                        | 46.1                          | -0.8                       | 7.0            | -                              | 41.3            | 45.2             | -3.9                       |
| 10:55 PM - 11:00 PM | 45.8                        | 45.9                          | -0.1                       | 7.0            | -                              | 41.8            | 45.2             | -3.4                       |
| 11:00 PM - 11:05 PM | 45.4                        | 45.8                          | -0.4                       | 7.0            | -                              | 41.4            | 45.1             | -3.7                       |
| 11:05 PM - 11:10 PM | 45.6                        | 46.4                          | -0.8                       | 7.0            | -                              | 41.6            | 45.5             | -3.9                       |
| 11:10 PM - 11:15 PM | 47.0                        | 46.3                          | 0.7                        | 7.0            | -                              | 43.0            | 45.6             | -2.6                       |
| 11:15 PM - 11:20 PM | 47.7                        | 46.8                          | 0.9                        | 7.0            | -                              | 43.7            | 45.2             | -1.5                       |
| 11:20 PM - 11:25 PM | 47.5                        | 48.1                          | -0.6                       | 7.0            | -                              | 43.5            | 45.5             | -2.0                       |
| 11:25 PM - 11:30 PM | 48.6                        | 47.0                          | 1.6                        | 4.5            | -                              | 47.1            | 45.7             | 1.4                        |
| 11:30 PM - 11:35 PM | 47.1                        | 46.2                          | 0.9                        | 7.0            | -                              | 43.1            | 45.2             | -2.1                       |
| 11:35 PM - 11:40 PM | 47.1                        | 46.8                          | 0.3                        | 7.0            | -                              | 43.1            | 45.5             | -2.4                       |
| 11:40 PM - 11:45 PM | 47.6                        | 45.2                          | 2.4                        | 4.5            | -                              | 46.1            | 43.9             | 2.2                        |
| 11:45 PM - 11:50 PM | 47.4                        | 45.6                          | 1.8                        | 4.5            | -                              | 45.9            | 44.2             | 1.7                        |
| 11:50 PM - 11:55 PM | 47.4                        | 45.5                          | 1.9                        | 4.5            | -                              | 45.9            | 44.0             | 1.9                        |
| 11:55 PM - 12:00 AM | 47.8                        | 44.7                          | 3.1                        | 3.0            | -                              | 47.8            | 43.8             | 4.0                        |
| 12:00 AM - 12:05 AM | 46.9                        | 46.8                          | 0.1                        | 7.0            | -                              | 42.9            | 44.0             | -1.1                       |
| 12:05 AM - 12:10 AM | 47.7                        | 45.4                          | 2.3                        | 4.5            | -                              | 46.2            | 44.1             | 2.1                        |
| 12:10 AM - 12:15 AM | 47.4                        | 45.2                          | 2.2                        | 4.5            | -                              | 45.9            | 44.0             | 1.9                        |
| 12:15 AM - 12:20 AM | 47.2                        | 45.4                          | 1.8                        | 4.5            | -                              | 45.7            | 43.8             | 1.9                        |
| 12:20 AM - 12:25 AM | 47.1                        | 45.6                          | 1.5                        | 4.5            | -                              | 45.6            | 44.2             | 1.4                        |

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Approved by

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 233852

Date Received :Jan 20, 2023

Date Reported :Jan 21, 2023

Report Number : 2548786-1

P/O :

Project Name :

Project Location :

Page 2 of 3

Sample No. 233852-1  
Parameter เสียงรบกวน  
Location หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158)  
Measurement Date Jan 17 - 18, 2023  
Measurement by Thananat Anake  
Sound Level Meter 00658243

### ระดับเสียง (dB(A))

| ระดับเสียง (dB(A))  |                                |                                  |                               |                   |                                   |                    |                     |                               |
|---------------------|--------------------------------|----------------------------------|-------------------------------|-------------------|-----------------------------------|--------------------|---------------------|-------------------------------|
| เวลา                | (A)<br>เสียงจาก<br>แหล่งกำเนิด | (B)<br>เสียงขณะ<br>ไม่มีการรบกวน | (A-B)<br>ผลต่าง<br>ระดับเสียง | (C)<br>ตัวปรับค่า | (D)<br>ปรับค่าเสียงจากแหล่งกำเนิด |                    | (E)<br>เสียงพื้นฐาน | (D-E)<br>ค่าระดับ<br>การรบกวน |
|                     |                                |                                  |                               |                   | (A-C)<br>กลางวัน                  | (A-C)+3<br>กลางคืน |                     |                               |
| 12:25 AM - 12:30 AM | 46.9                           | 44.7                             | 2.2                           | 4.5               | -                                 | 45.4               | 43.4                | 2.0                           |
| 12:30 AM - 12:35 AM | 46.7                           | 44.4                             | 2.3                           | 4.5               | -                                 | 45.2               | 43.5                | 1.7                           |
| 12:35 AM - 12:40 AM | 46.3                           | 44.7                             | 1.6                           | 4.5               | -                                 | 44.8               | 43.3                | 1.5                           |
| 12:40 AM - 12:45 AM | 46.5                           | 44.1                             | 2.4                           | 4.5               | -                                 | 45.0               | 43.0                | 2.0                           |
| 12:45 AM - 12:50 AM | 46.7                           | 44.7                             | 2.0                           | 4.5               | -                                 | 45.2               | 43.1                | 2.1                           |
| 12:50 AM - 12:55 AM | 46.3                           | 44.3                             | 2.0                           | 4.5               | -                                 | 44.8               | 43.2                | 1.6                           |
| 12:55 AM - 01:00 AM | 46.2                           | 44.0                             | 2.2                           | 4.5               | -                                 | 44.7               | 42.8                | 1.9                           |
| 01:00 AM - 01:05 AM | 46.1                           | 44.0                             | 2.1                           | 4.5               | -                                 | 44.6               | 43.1                | 1.5                           |
| 01:05 AM - 01:10 AM | 45.9                           | 44.2                             | 1.7                           | 4.5               | -                                 | 44.4               | 43.2                | 1.2                           |
| 01:10 AM - 01:15 AM | 46.5                           | 44.7                             | 1.8                           | 4.5               | -                                 | 45.0               | 43.2                | 1.8                           |
| 01:15 AM - 01:20 AM | 46.1                           | 44.4                             | 1.7                           | 4.5               | -                                 | 44.6               | 43.4                | 1.2                           |
| 01:20 AM - 01:25 AM | 46.5                           | 44.7                             | 1.8                           | 4.5               | -                                 | 45.0               | 43.4                | 1.6                           |
| 01:25 AM - 01:30 AM | 46.1                           | 45.3                             | 0.8                           | 7.0               | -                                 | 42.1               | 43.1                | -1.0                          |
| 01:30 AM - 01:35 AM | 47.1                           | 46.3                             | 0.8                           | 7.0               | -                                 | 43.1               | 43.0                | 0.1                           |
| 01:35 AM - 01:40 AM | 46.9                           | 44.5                             | 2.4                           | 4.5               | -                                 | 45.4               | 43.4                | 2.0                           |
| 01:40 AM - 01:45 AM | 46.3                           | 47.9                             | -1.6                          | 7.0               | -                                 | 42.3               | 43.3                | -1.0                          |
| 01:45 AM - 01:50 AM | 50.5                           | 46.6                             | 3.9                           | 2.0               | -                                 | 51.5               | 43.3                | 8.2                           |
| 01:50 AM - 01:55 AM | 48.1                           | 44.7                             | 3.4                           | 3.0               | -                                 | 48.1               | 43.3                | 4.8                           |
| 01:55 AM - 02:00 AM | 46.6                           | 46.4                             | 0.2                           | 7.0               | -                                 | 42.6               | 43.5                | -0.9                          |
| 02:00 AM - 02:05 AM | 48.8                           | 44.7                             | 4.1                           | 2.0               | -                                 | 49.8               | 42.9                | 6.9                           |
| 02:05 AM - 02:10 AM | 46.6                           | 44.3                             | 2.3                           | 4.5               | -                                 | 45.1               | 42.6                | 2.5                           |
| 02:10 AM - 02:15 AM | 47.5                           | 45.7                             | 1.8                           | 4.5               | -                                 | 46.0               | 43.0                | 3.0                           |
| 02:15 AM - 02:20 AM | 47.1                           | 46.3                             | 0.8                           | 7.0               | -                                 | 43.1               | 43.7                | -0.6                          |
| 02:20 AM - 02:25 AM | 48.1                           | 44.7                             | 3.4                           | 3.0               | -                                 | 48.1               | 43.1                | 5.0                           |
| 02:25 AM - 02:30 AM | 46.3                           | 43.7                             | 2.6                           | 3.0               | -                                 | 46.3               | 42.9                | 3.4                           |
| 02:30 AM - 02:35 AM | 46.4                           | 44.7                             | 1.7                           | 4.5               | -                                 | 44.9               | 43.0                | 1.9                           |
| 02:35 AM - 02:40 AM | 46.8                           | 43.2                             | 3.6                           | 2.0               | -                                 | 47.8               | 42.6                | 5.2                           |
| 02:40 AM - 02:45 AM | 45.9                           | 42.8                             | 3.1                           | 3.0               | -                                 | 45.9               | 42.1                | 3.8                           |
| 02:45 AM - 02:50 AM | 45.8                           | 43.4                             | 2.4                           | 4.5               | -                                 | 44.3               | 42.3                | 2.0                           |
| 02:50 AM - 02:55 AM | 45.5                           | 42.7                             | 2.8                           | 3.0               | -                                 | 45.5               | 42.0                | 3.5                           |
| 02:55 AM - 03:00 AM | 45.5                           | 42.8                             | 2.7                           | 3.0               | -                                 | 45.5               | 42.2                | 3.3                           |
| 03:00 AM - 03:05 AM | 45.8                           | 43.4                             | 2.4                           | 4.5               | -                                 | 44.3               | 42.4                | 1.9                           |
| 03:05 AM - 03:10 AM | 46.1                           | 43.8                             | 2.3                           | 4.5               | -                                 | 44.6               | 43.0                | 1.6                           |
| 03:10 AM - 03:15 AM | 46.4                           | 44.2                             | 2.2                           | 4.5               | -                                 | 44.9               | 43.0                | 1.9                           |
| 03:15 AM - 03:20 AM | 48.3                           | 45.7                             | 2.6                           | 3.0               | -                                 | 48.3               | 42.8                | 5.5                           |
| 03:20 AM - 03:25 AM | 46.2                           | 45.1                             | 1.1                           | 7.0               | -                                 | 42.2               | 43.1                | -0.9                          |
| 03:25 AM - 03:30 AM | 47.3                           | 45.2                             | 2.1                           | 4.5               | -                                 | 45.8               | 43.5                | 2.3                           |
| 03:30 AM - 03:35 AM | 46.8                           | 44.1                             | 2.7                           | 3.0               | -                                 | 46.8               | 43.1                | 3.7                           |
| 03:35 AM - 03:40 AM | 46.3                           | 44.6                             | 1.7                           | 4.5               | -                                 | 44.8               | 43.1                | 1.7                           |
| 03:40 AM - 03:45 AM | 46.4                           | 42.6                             | 3.8                           | 2.0               | -                                 | 47.4               | 41.9                | 5.5                           |

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Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager



## Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 233852

Date Received : Jan 20, 2023

Date Reported : Jan 21, 2023

Report Number : 2548786-1

P/O :

Project Name :

Project Location :

Page 3 of 3

Sample No. 233852-1  
Parameter เสียงรบกวน  
Location หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158)  
Measurement Date Jan 17 - 18, 2023  
Measurement by Thananat Anake  
Sound Level Meter 00658243

### 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 |                  |                        |
| 03:45 AM - 03:50 AM | 45.4                    | 43.1                      | 2.3                    | 4.5            | -                              | 43.9            | 42.0             | 1.9                    |
| 03:50 AM - 03:55 AM | 45.4                    | 43.2                      | 2.2                    | 4.5            | -                              | 43.9            | 41.5             | 2.4                    |
| 03:55 AM - 04:00 AM | 45.1                    | 43.6                      | 1.5                    | 4.5            | -                              | 43.6            | 41.3             | 2.3                    |
| 04:00 AM - 04:05 AM | 45.8                    | 43.5                      | 2.3                    | 4.5            | -                              | 44.3            | 42.1             | 2.2                    |
| 04:05 AM - 04:10 AM | 45.3                    | 47.5                      | -2.2                   | 7.0            | -                              | 41.3            | 41.8             | -0.5                   |
| 04:10 AM - 04:15 AM | 47.3                    | 43.5                      | 3.8                    | 2.0            | -                              | 48.3            | 41.4             | 6.9                    |
| 04:15 AM - 04:20 AM | 45.3                    | 43.7                      | 1.6                    | 4.5            | -                              | 43.8            | 42.0             | 1.8                    |
| 04:20 AM - 04:25 AM | 44.9                    | 42.6                      | 2.3                    | 4.5            | -                              | 43.4            | 41.1             | 2.3                    |
| 04:25 AM - 04:30 AM | 44.2                    | 42.6                      | 1.6                    | 4.5            | -                              | 42.7            | 41.2             | 1.5                    |
| 04:30 AM - 04:35 AM | 44.3                    | 42.5                      | 1.8                    | 4.5            | -                              | 42.8            | 40.6             | 2.2                    |
| 04:35 AM - 04:40 AM | 45.4                    | 45.3                      | 0.1                    | 7.0            | -                              | 41.4            | 41.2             | 0.2                    |
| 04:40 AM - 04:45 AM | 45.9                    | 42.9                      | 3.0                    | 3.0            | -                              | 45.9            | 41.4             | 4.5                    |
| 04:45 AM - 04:50 AM | 44.8                    | 44.3                      | 0.5                    | 7.0            | -                              | 40.8            | 42.2             | -1.4                   |
| 04:50 AM - 04:55 AM | 44.8                    | 46.7                      | -1.9                   | 7.0            | -                              | 40.8            | 40.1             | 0.7                    |
| 04:55 AM - 05:00 AM | 48.9                    | 40.8                      | 8.1                    | 0.5            | -                              | 51.4            | 39.5             | 11.9                   |
| 05:00 AM - 05:05 AM | 43.2                    | 41.1                      | 2.1                    | 4.5            | -                              | 41.7            | 39.3             | 2.4                    |
| 05:05 AM - 05:10 AM | 42.8                    | 41.3                      | 1.5                    | 4.5            | -                              | 41.3            | 39.9             | 1.4                    |
| 05:10 AM - 05:15 AM | 43.5                    | 44.3                      | -0.8                   | 7.0            | -                              | 39.5            | 39.8             | -0.3                   |
| 05:15 AM - 05:20 AM | 47.4                    | 44.5                      | 2.9                    | 3.0            | -                              | 47.4            | 39.8             | 7.6                    |
| 05:20 AM - 05:25 AM | 44.0                    | 42.7                      | 1.3                    | 7.0            | -                              | 40.0            | 39.5             | 0.5                    |
| 05:25 AM - 05:30 AM | 43.0                    | 42.3                      | 0.7                    | 7.0            | -                              | 39.0            | 39.8             | -0.8                   |
| 05:30 AM - 05:35 AM | 44.6                    | 44.8                      | -0.2                   | 7.0            | -                              | 40.6            | 41.1             | -0.5                   |
| 05:35 AM - 05:40 AM | 44.9                    | 43.6                      | 1.3                    | 7.0            | -                              | 40.9            | 41.7             | -0.8                   |
| 05:40 AM - 05:45 AM | 44.4                    | 43.8                      | 0.6                    | 7.0            | -                              | 40.4            | 41.8             | -1.4                   |
| 05:45 AM - 05:50 AM | 43.9                    | 43.9                      | 0.0                    | 7.0            | -                              | 39.9            | 41.6             | -1.7                   |
| 05:50 AM - 05:55 AM | 44.0                    | 42.0                      | 2.0                    | 4.5            | -                              | 42.5            | 39.4             | 3.1                    |
| 05:55 AM - 06:00 AM | 42.5                    | 43.6                      | -1.1                   | 7.0            | -                              | 38.5            | 41.1             | -2.6                   |
| 06:00 AM - 07:00 AM | 54.4                    | 48.4                      | 6.0                    | 1.5            | 52.9                           | -               | 41.8             | 11.1                   |
| 07:00 AM - 08:00 AM | 50.7                    | 56.3                      | -5.6                   | 7.0            | 43.7                           | -               | 44.7             | -1.0                   |
| 08:00 AM - 09:00 AM | 52.1                    | 51.8                      | 0.3                    | 7.0            | 45.1                           | -               | 46.3             | -1.2                   |
| 09:00 AM - 10:00 AM | 55.9                    | 53.9                      | 2.0                    | 4.5            | 51.4                           | -               | 47.9             | 3.5                    |
| 10:00 AM - 11:00 AM | 51.3                    | 50.3                      | 1.0                    | 7.0            | 44.3                           | -               | 46.2             | -1.9                   |
| ค่ามาตรฐาน          | ≤ 10                    |                           |                        |                |                                |                 |                  |                        |

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

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
  - ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
  - ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 17-18 มกราคม 2566
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.233853-1 วันที่ตรวจวัด 17-18 มกราคม 2566)

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Approved by

Kanokkorn Anek  
Senior Manager



# Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 233852

Date Received :Jan 20, 2023

Date Reported :Jan 21, 2023

Report Number : 2548787-1

P/O :

Project Name :

Project Location :

Page 1 of 3

Sample No. 233852-2  
Parameter เสียงรบกวน  
Location หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 2) (GPS 47P 0696655, 1616585)  
Measurement Date Jan 17 - 18, 2023  
Measurement by Thananat Anake  
Sound Level Meter 00658241

## ระดับเสียง (dB(A))

| เวลา                | (A)                 |                       | (B)              |            | (A-B)                      |               | (C)             |              | (B)      |  | (E) |  | (D-E) |  |
|---------------------|---------------------|-----------------------|------------------|------------|----------------------------|---------------|-----------------|--------------|----------|--|-----|--|-------|--|
|                     | เสียงจากแหล่งกำเนิด | เสียงขณะไม่มีการรบกวน | ผลต่างระดับเสียง | ตัวปรับค่า | ปรับค่าเสียงจากแหล่งกำเนิด | กลางวัน (A-C) | กลางคืน (A-C)+3 | เสียงพื้นฐาน | การรบกวน |  |     |  |       |  |
| 11:00 AM - 12:00 PM | 55.2                | 55.6                  | -0.4             | 7.0        | 48.2                       | -             | -               | 43.3         | 4.9      |  |     |  |       |  |
| 12:00 PM - 01:00 PM | 55.9                | 52.8                  | 3.1              | 3.0        | 52.9                       | -             | -               | 43.8         | 9.1      |  |     |  |       |  |
| 01:00 PM - 02:00 PM | 56.4                | 53.1                  | 3.3              | 3.0        | 53.4                       | -             | -               | 44.3         | 9.1      |  |     |  |       |  |
| 02:00 PM - 03:00 PM | 57.3                | 53.0                  | 4.3              | 2.0        | 55.3                       | -             | -               | 44.9         | 10.4     |  |     |  |       |  |
| 03:00 PM - 04:00 PM | 57.1                | 53.3                  | 3.8              | 2.0        | 55.1                       | -             | -               | 44.7         | 10.4     |  |     |  |       |  |
| 04:00 PM - 05:00 PM | 55.7                | 53.0                  | 2.7              | 3.0        | 52.7                       | -             | -               | 44.5         | 8.2      |  |     |  |       |  |
| 05:00 PM - 06:00 PM | 55.2                | 53.3                  | 1.9              | 4.5        | 50.7                       | -             | -               | 46.5         | 4.2      |  |     |  |       |  |
| 06:00 PM - 07:00 PM | 54.0                | 52.7                  | 1.3              | 7.0        | 47.0                       | -             | -               | 48.2         | -1.2     |  |     |  |       |  |
| 07:00 PM - 08:00 PM | 53.1                | 52.1                  | 1.0              | 7.0        | 46.1                       | -             | -               | 47.9         | -1.8     |  |     |  |       |  |
| 08:00 PM - 09:00 PM | 52.5                | 51.6                  | 0.9              | 7.0        | 45.5                       | -             | -               | 47.6         | -2.1     |  |     |  |       |  |
| 09:00 PM - 10:00 PM | 52.0                | 51.0                  | 1.0              | 7.0        | 45.0                       | -             | -               | 48.1         | -3.1     |  |     |  |       |  |
| 10:00 PM - 10:05 PM | 51.8                | 50.8                  | 1.0              | 7.0        | -                          | 47.8          | -               | 48.4         | -0.6     |  |     |  |       |  |
| 10:05 PM - 10:10 PM | 52.4                | 50.9                  | 1.5              | 4.5        | -                          | 50.9          | -               | 48.6         | 2.3      |  |     |  |       |  |
| 10:10 PM - 10:15 PM | 49.4                | 50.5                  | -1.1             | 7.0        | -                          | 45.4          | -               | 48.4         | -3.0     |  |     |  |       |  |
| 10:15 PM - 10:20 PM | 50.0                | 50.1                  | -0.1             | 7.0        | -                          | 46.0          | -               | 48.4         | -2.4     |  |     |  |       |  |
| 10:20 PM - 10:25 PM | 53.5                | 52.0                  | 1.5              | 4.5        | -                          | 52.0          | -               | 48.4         | 3.6      |  |     |  |       |  |
| 10:25 PM - 10:30 PM | 51.6                | 51.0                  | 0.6              | 7.0        | -                          | 47.6          | -               | 48.5         | -0.9     |  |     |  |       |  |
| 10:30 PM - 10:35 PM | 51.4                | 50.9                  | 0.5              | 7.0        | -                          | 47.4          | -               | 48.6         | -1.2     |  |     |  |       |  |
| 10:35 PM - 10:40 PM | 50.5                | 50.6                  | -0.1             | 7.0        | -                          | 46.5          | -               | 48.4         | -1.9     |  |     |  |       |  |
| 10:40 PM - 10:45 PM | 50.5                | 50.2                  | 0.3              | 7.0        | -                          | 46.5          | -               | 48.6         | -2.1     |  |     |  |       |  |
| 10:45 PM - 10:50 PM | 51.9                | 51.1                  | 0.8              | 7.0        | -                          | 47.9          | -               | 48.8         | -0.9     |  |     |  |       |  |
| 10:50 PM - 10:55 PM | 50.2                | 50.6                  | -0.4             | 7.0        | -                          | 46.2          | -               | 48.6         | -2.4     |  |     |  |       |  |
| 10:55 PM - 11:00 PM | 51.4                | 49.7                  | 1.7              | 4.5        | -                          | 49.9          | -               | 48.5         | 1.4      |  |     |  |       |  |
| 11:00 PM - 11:05 PM | 53.0                | 51.8                  | 1.2              | 7.0        | -                          | 49.0          | -               | 49.2         | -0.2     |  |     |  |       |  |
| 11:05 PM - 11:10 PM | 51.5                | 52.3                  | -0.8             | 7.0        | -                          | 47.5          | -               | 48.9         | -1.4     |  |     |  |       |  |
| 11:10 PM - 11:15 PM | 49.8                | 49.9                  | -0.1             | 7.0        | -                          | 45.8          | -               | 48.1         | -2.3     |  |     |  |       |  |
| 11:15 PM - 11:20 PM | 49.1                | 49.6                  | -0.5             | 7.0        | -                          | 45.1          | -               | 48.1         | -3.0     |  |     |  |       |  |
| 11:20 PM - 11:25 PM | 52.1                | 51.4                  | 0.7              | 7.0        | -                          | 48.1          | -               | 48.2         | -0.1     |  |     |  |       |  |
| 11:25 PM - 11:30 PM | 53.2                | 52.1                  | 1.1              | 7.0        | -                          | 49.2          | -               | 48.2         | 1.0      |  |     |  |       |  |
| 11:30 PM - 11:35 PM | 49.5                | 49.6                  | -0.1             | 7.0        | -                          | 45.5          | -               | 47.8         | -2.3     |  |     |  |       |  |
| 11:35 PM - 11:40 PM | 49.7                | 50.1                  | -0.4             | 7.0        | -                          | 45.7          | -               | 48.2         | -2.5     |  |     |  |       |  |
| 11:40 PM - 11:45 PM | 51.2                | 50.8                  | 0.4              | 7.0        | -                          | 47.2          | -               | 48.0         | -0.8     |  |     |  |       |  |
| 11:45 PM - 11:50 PM | 49.3                | 49.8                  | -0.5             | 7.0        | -                          | 45.3          | -               | 48.0         | -2.7     |  |     |  |       |  |
| 11:50 PM - 11:55 PM | 50.5                | 50.0                  | 0.5              | 7.0        | -                          | 46.5          | -               | 47.6         | -1.1     |  |     |  |       |  |
| 11:55 PM - 12:00 AM | 53.6                | 52.1                  | 1.5              | 4.5        | -                          | 52.1          | -               | 48.2         | 3.9      |  |     |  |       |  |
| 12:00 AM - 12:05 AM | 50.1                | 50.2                  | -0.1             | 7.0        | -                          | 46.1          | -               | 47.6         | -1.5     |  |     |  |       |  |
| 12:05 AM - 12:10 AM | 51.2                | 50.3                  | 0.9              | 7.0        | -                          | 47.2          | -               | 47.7         | -0.5     |  |     |  |       |  |
| 12:10 AM - 12:15 AM | 49.8                | 50.2                  | -0.4             | 7.0        | -                          | 45.8          | -               | 48.2         | -2.4     |  |     |  |       |  |
| 12:15 AM - 12:20 AM | 50.8                | 50.7                  | 0.1              | 7.0        | -                          | 46.8          | -               | 48.0         | -1.2     |  |     |  |       |  |
| 12:20 AM - 12:25 AM | 52.4                | 49.4                  | 3.0              | 3.0        | -                          | 52.4          | -               | 47.7         | 4.7      |  |     |  |       |  |

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Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 233852

Date Received :Jan 20, 2023

Date Reported :Jan 21, 2023

Report Number : 2548787-1

P/O :

Project Name :

Project Location :

Page 2 of 3

Sample No. 233852-2  
Parameter เสียงรบกวน  
Location หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 2) (GPS 47P 0696655, 1616585)  
Measurement Date Jan 17 - 18, 2023  
Measurement by Thananat Anake  
Sound Level Meter 00658241

### ระดับเสียง (dB(A))

| เวลา                | เสียงจาก<br>แหล่งกำเนิด <sup>(A)</sup> | เสียงขณะ<br>ไม่มีการรบกวน <sup>(B)</sup> | ผลต่าง<br>ระดับเสียง <sup>(A-B)</sup> | ตัวปรับค่า <sup>(C)</sup> | ปรับค่าเสียงจากแหล่งกำเนิด <sup>(D)</sup> |                            | เสียงพื้นฐาน <sup>(E)</sup> | ค่าระดับ<br>การรบกวน <sup>(D-E)</sup> |
|---------------------|--|--|---------------------------------------|---------------------------|---|----------------------------|-----------------------------|---------------------------------------|
|                     |  |  |                                       |                           | กลางวัน <sup>(A-C)</sup>                  | กลางคืน <sup>(A-C)+3</sup> |                             |                                       |
| 12:25 AM - 12:30 AM | 54.6                                   | 54.4                                     | 0.2                                   | 7.0                       | -   | 50.6                       | 48.2                        | 2.4                                   |
| 12:30 AM - 12:35 AM | 48.6                                   | 49.3                                     | -0.7                                  | 7.0                       | -   | 44.6                       | 48.0                        | -3.4                                  |
| 12:35 AM - 12:40 AM | 48.5                                   | 49.2                                     | -0.7                                  | 7.0                       | -   | 44.5                       | 47.8                        | -3.3                                  |
| 12:40 AM - 12:45 AM | 53.7                                   | 51.8                                     | 1.9                                   | 4.5                       | -   | 52.2                       | 47.7                        | 4.5                                   |
| 12:45 AM - 12:50 AM | 52.1                                   | 52.0                                     | 0.1                                   | 7.0                       | -   | 48.1                       | 47.6                        | 0.5                                   |
| 12:50 AM - 12:55 AM | 57.6                                   | 55.0                                     | 2.6                                   | 3.0                       | -   | 57.6                       | 47.4                        | 10.2                                  |
| 12:55 AM - 01:00 AM | 53.4                                   | 52.6                                     | 0.8                                   | 7.0                       | -   | 49.4                       | 47.4                        | 2.0                                   |
| 01:00 AM - 01:05 AM | 53.8                                   | 52.9                                     | 0.9                                   | 7.0                       | -   | 49.8                       | 48.0                        | 1.8                                   |
| 01:05 AM - 01:10 AM | 48.8                                   | 48.5                                     | 0.3                                   | 7.0                       | -   | 44.8                       | 47.2                        | -2.4                                  |
| 01:10 AM - 01:15 AM | 55.9                                   | 51.3                                     | 4.6                                   | 1.5                       | -   | 57.4                       | 47.9                        | 9.5                                   |
| 01:15 AM - 01:20 AM | 51.2                                   | 53.7                                     | -2.5                                  | 7.0                       | -   | 47.2                       | 47.2                        | 0.0                                   |
| 01:20 AM - 01:25 AM | 48.4                                   | 49.2                                     | -0.8                                  | 7.0                       | -   | 44.4                       | 47.1                        | -2.7                                  |
| 01:25 AM - 01:30 AM | 52.1                                   | 50.6                                     | 1.5                                   | 4.5                       | -   | 50.6                       | 47.3                        | 3.3                                   |
| 01:30 AM - 01:35 AM | 47.7                                   | 48.7                                     | -1.0                                  | 7.0                       | -   | 43.7                       | 47.3                        | -3.6                                  |
| 01:35 AM - 01:40 AM | 49.9                                   | 49.9                                     | 0.0                                   | 7.0                       | -   | 45.9                       | 47.6                        | -1.7                                  |
| 01:40 AM - 01:45 AM | 49.8                                   | 49.9                                     | -0.1                                  | 7.0                       | -   | 45.8                       | 47.7                        | -1.9                                  |
| 01:45 AM - 01:50 AM | 50.0                                   | 49.1                                     | 0.9                                   | 7.0                       | -   | 46.0                       | 47.6                        | -1.6                                  |
| 01:50 AM - 01:55 AM | 48.0                                   | 49.3                                     | -1.3                                  | 7.0                       | -   | 44.0                       | 47.5                        | -3.5                                  |
| 01:55 AM - 02:00 AM | 51.7                                   | 50.6                                     | 1.1                                   | 7.0                       | -   | 47.7                       | 47.3                        | 0.4                                   |
| 02:00 AM - 02:05 AM | 54.8                                   | 55.1                                     | -0.3                                  | 7.0                       | -   | 50.8                       | 47.4                        | 3.4                                   |
| 02:05 AM - 02:10 AM | 56.6                                   | 54.7                                     | 1.9                                   | 4.5                       | -   | 55.1                       | 47.3                        | 7.8                                   |
| 02:10 AM - 02:15 AM | 50.7                                   | 49.9                                     | 0.8                                   | 7.0                       | -   | 46.7                       | 47.1                        | -0.4                                  |
| 02:15 AM - 02:20 AM | 47.6                                   | 48.1                                     | -0.5                                  | 7.0                       | -   | 43.6                       | 46.9                        | -3.3                                  |
| 02:20 AM - 02:25 AM | 47.5                                   | 48.4                                     | -0.9                                  | 7.0                       | -   | 43.5                       | 46.9                        | -3.4                                  |
| 02:25 AM - 02:30 AM | 48.0                                   | 48.7                                     | -0.7                                  | 7.0                       | -   | 44.0                       | 46.9                        | -2.9                                  |
| 02:30 AM - 02:35 AM | 52.5                                   | 51.2                                     | 1.3                                   | 7.0                       | -   | 48.5                       | 46.7                        | 1.8                                   |
| 02:35 AM - 02:40 AM | 47.4                                   | 48.2                                     | -0.8                                  | 7.0                       | -   | 43.4                       | 46.7                        | -3.3                                  |
| 02:40 AM - 02:45 AM | 49.8                                   | 49.6                                     | 0.2                                   | 7.0                       | -   | 45.8                       | 46.9                        | -1.1                                  |
| 02:45 AM - 02:50 AM | 51.3                                   | 50.4                                     | 0.9                                   | 7.0                       | -   | 47.3                       | 46.7                        | 0.6                                   |
| 02:50 AM - 02:55 AM | 49.8                                   | 49.2                                     | 0.6                                   | 7.0                       | -   | 45.8                       | 46.8                        | -1.0                                  |
| 02:55 AM - 03:00 AM | 49.6                                   | 49.0                                     | 0.6                                   | 7.0                       | -   | 45.6                       | 46.5                        | -0.9                                  |
| 03:00 AM - 03:05 AM | 47.3                                   | 48.1                                     | -0.8                                  | 7.0                       | -   | 43.3                       | 46.4                        | -3.1                                  |
| 03:05 AM - 03:10 AM | 47.3                                   | 48.2                                     | -0.9                                  | 7.0                       | -   | 43.3                       | 46.6                        | -3.3                                  |
| 03:10 AM - 03:15 AM | 47.2                                   | 48.1                                     | -0.9                                  | 7.0                       | -   | 43.2                       | 46.5                        | -3.3                                  |
| 03:15 AM - 03:20 AM | 54.4                                   | 51.9                                     | 2.5                                   | 3.0                       | -   | 54.4                       | 46.2                        | 8.2                                   |
| 03:20 AM - 03:25 AM | 53.6                                   | 53.0                                     | 0.6                                   | 7.0                       | -   | 49.6                       | 45.8                        | 3.8                                   |
| 03:25 AM - 03:30 AM | 48.1                                   | 48.0                                     | 0.1                                   | 7.0                       | -   | 44.1                       | 45.7                        | -1.6                                  |
| 03:30 AM - 03:35 AM | 56.0                                   | 53.4                                     | 2.6                                   | 3.0                       | -   | 56.0                       | 46.7                        | 9.3                                   |
| 03:35 AM - 03:40 AM | 49.9                                   | 51.1                                     | -1.2                                  | 7.0                       | -   | 45.9                       | 45.8                        | 0.1                                   |
| 03:40 AM - 03:45 AM | 46.6                                   | 47.0                                     | -0.4                                  | 7.0                       | -   | 42.6                       | 45.2                        | -2.6                                  |

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*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager





## Analysis / Test Report

TESTING

No.0009

Client : Magotteaux Co., Ltd.

9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

Lot ID: 233852

Date Received : Jan 20, 2023

Date Reported : Jan 21, 2023

Report Number : 2548787-1

P/O :

Project Name :

Project Location :

Page 3 of 3

Sample No. 233852-2  
Parameter เสียงรบกวน  
Location หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 2) (GPS 47P 0696655, 1616585)  
Measurement Date Jan 17 - 18, 2023  
Measurement by Thananat Anake  
Sound Level Meter 00658241

### 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 |                  |                        |
| 03:45 AM - 03:50 AM | 48.1                    | 47.0                      | 1.1                    | 7.0            | -                              | 44.1            | 45.4             | -1.3                   |
| 03:50 AM - 03:55 AM | 53.8                    | 51.7                      | 2.1                    | 4.5            | -                              | 52.3            | 45.2             | 7.1                    |
| 03:55 AM - 04:00 AM | 56.2                    | 54.6                      | 1.6                    | 4.5            | -                              | 54.7            | 46.1             | 8.6                    |
| 04:00 AM - 04:05 AM | 54.6                    | 53.9                      | 0.7                    | 7.0            | -                              | 50.6            | 46.1             | 4.5                    |
| 04:05 AM - 04:10 AM | 49.6                    | 48.0                      | 1.6                    | 4.5            | -                              | 48.1            | 45.4             | 2.7                    |
| 04:10 AM - 04:15 AM | 55.8                    | 54.1                      | 1.7                    | 4.5            | -                              | 54.3            | 46.1             | 8.2                    |
| 04:15 AM - 04:20 AM | 51.4                    | 50.3                      | 1.1                    | 7.0            | -                              | 47.4            | 45.2             | 2.2                    |
| 04:20 AM - 04:25 AM | 53.9                    | 52.1                      | 1.8                    | 4.5            | -                              | 52.4            | 45.3             | 7.1                    |
| 04:25 AM - 04:30 AM | 51.2                    | 51.4                      | -0.2                   | 7.0            | -                              | 47.2            | 45.5             | 1.7                    |
| 04:30 AM - 04:35 AM | 54.5                    | 53.9                      | 0.6                    | 7.0            | -                              | 50.5            | 46.2             | 4.3                    |
| 04:35 AM - 04:40 AM | 53.9                    | 52.8                      | 1.1                    | 7.0            | -                              | 49.9            | 45.4             | 4.5                    |
| 04:40 AM - 04:45 AM | 54.7                    | 52.4                      | 2.3                    | 4.5            | -                              | 53.2            | 45.2             | 8.0                    |
| 04:45 AM - 04:50 AM | 54.9                    | 53.2                      | 1.7                    | 4.5            | -                              | 53.4            | 45.2             | 8.2                    |
| 04:50 AM - 04:55 AM | 55.9                    | 54.6                      | 1.3                    | 7.0            | -                              | 51.9            | 45.2             | 6.7                    |
| 04:55 AM - 05:00 AM | 56.7                    | 55.0                      | 1.7                    | 4.5            | -                              | 55.2            | 45.8             | 9.4                    |
| 05:00 AM - 05:05 AM | 55.5                    | 54.7                      | 0.8                    | 7.0            | -                              | 51.5            | 47.0             | 4.5                    |
| 05:05 AM - 05:10 AM | 54.2                    | 52.2                      | 2.0                    | 4.5            | -                              | 52.7            | 45.0             | 7.7                    |
| 05:10 AM - 05:15 AM | 56.1                    | 57.4                      | -1.3                   | 7.0            | -                              | 52.1            | 47.3             | 4.8                    |
| 05:15 AM - 05:20 AM | 57.6                    | 52.6                      | 5.0                    | 1.5            | -                              | 59.1            | 46.2             | 12.9                   |
| 05:20 AM - 05:25 AM | 57.9                    | 59.8                      | -1.9                   | 7.0            | -                              | 53.9            | 49.9             | 4.0                    |
| 05:25 AM - 05:30 AM | 61.4                    | 57.7                      | 3.7                    | 2.0            | -                              | 62.4            | 50.3             | 12.1                   |
| 05:30 AM - 05:35 AM | 57.6                    | 56.1                      | 1.5                    | 4.5            | -                              | 56.1            | 47.3             | 8.8                    |
| 05:35 AM - 05:40 AM | 59.5                    | 55.0                      | 4.5                    | 1.5            | -                              | 61.0            | 47.3             | 13.7                   |
| 05:40 AM - 05:45 AM | 58.4                    | 56.1                      | 2.3                    | 4.5            | -                              | 56.9            | 46.7             | 10.2                   |
| 05:45 AM - 05:50 AM | 59.6                    | 56.6                      | 3.0                    | 3.0            | -                              | 59.6            | 46.9             | 12.7                   |
| 05:50 AM - 05:55 AM | 61.0                    | 60.1                      | 0.9                    | 7.0            | -                              | 57.0            | 48.8             | 8.2                    |
| 05:55 AM - 06:00 AM | 61.2                    | 59.2                      | 2.0                    | 4.5            | -                              | 59.7            | 49.0             | 10.7                   |
| 06:00 AM - 07:00 AM | 59.4                    | 57.3                      | 2.1                    | 4.5            | 54.9                           | -               | 47.8             | 7.1                    |
| 07:00 AM - 08:00 AM | 59.1                    | 57.4                      | 1.7                    | 4.5            | 54.6                           | -               | 48.2             | 6.4                    |
| 08:00 AM - 09:00 AM | 59.0                    | 58.1                      | 0.9                    | 7.0            | 52.0                           | -               | 48.9             | 3.1                    |
| 09:00 AM - 10:00 AM | 59.8                    | 59.5                      | 0.3                    | 7.0            | 52.8                           | -               | 48.7             | 4.1                    |
| 10:00 AM - 11:00 AM | 57.1                    | 57.4                      | -0.3                   | 7.0            | 50.1                           | -               | 44.5             | 5.6                    |

ค่ามาตรฐาน

≤ 10

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

มาตรฐาน

- ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
  - ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
  - ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
- ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 17-18 มกราคม 2566
- ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน (Sample No.233853-2 วันที่ตรวจวัด 17-18 มกราคม 2566)

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*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**Lot ID: 233853**  
Date Received : Jan 20, 2023  
Date Reported : Jan 21, 2023  
Report No. : 2548788-1

**P/O** :  
**Project Name** :  
**Project Location** :

Page 1 of 3

**Sample No.** 233853-1  
**Parameter** Noise  
**Location** หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158) (จุดอ้างอิง) (Shut down)  
**Measurement Date** Jan 17 - 18, 2023  
**Measurement by** Thananat Anake  
**Sound Level Meter** 00858516

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 11:00 AM - 12:00 PM | 50.3        | 84.5         | 38.4        |
| 12:00 PM - 01:00 PM | 49.9        | 72.8         | 37.9        |
| 01:00 PM - 02:00 PM | 46.5        | 69.7         | 37.9        |
| 02:00 PM - 03:00 PM | 51.8        | 91.0         | 36.1        |
| 03:00 PM - 04:00 PM | 47.4        | 69.5         | 36.7        |
| 04:00 PM - 05:00 PM | 45.8        | 63.2         | 37.0        |
| 05:00 PM - 06:00 PM | 46.7        | 64.1         | 37.2        |
| 06:00 PM - 07:00 PM | 47.6        | 84.2         | 42.4        |
| 07:00 PM - 08:00 PM | 49.6        | 77.4         | 44.4        |
| 08:00 PM - 09:00 PM | 44.2        | 67.7         | 40.8        |
| 09:00 PM - 10:00 PM | 49.4        | 74.6         | 39.6        |
| 10:00 PM - 10:05 PM | 44.6        | 70.8         | 39.5        |
| 10:05 PM - 10:10 PM | 41.1        | 45.3         | 40.0        |
| 10:10 PM - 10:15 PM | 43.8        | 55.3         | 42.1        |
| 10:15 PM - 10:20 PM | 45.7        | 59.2         | 42.9        |
| 10:20 PM - 10:25 PM | 43.6        | 49.3         | 42.2        |
| 10:25 PM - 10:30 PM | 44.2        | 51.0         | 42.5        |
| 10:30 PM - 10:35 PM | 46.1        | 49.2         | 44.9        |
| 10:35 PM - 10:40 PM | 46.5        | 54.3         | 45.6        |
| 10:40 PM - 10:45 PM | 46.2        | 48.9         | 45.5        |
| 10:45 PM - 10:50 PM | 46.1        | 49.3         | 45.2        |
| 10:50 PM - 10:55 PM | 46.1        | 58.9         | 45.2        |
| 10:55 PM - 11:00 PM | 45.9        | 49.0         | 45.2        |
| 11:00 PM - 11:05 PM | 45.8        | 51.6         | 45.1        |
| 11:05 PM - 11:10 PM | 46.4        | 50.8         | 45.5        |
| 11:10 PM - 11:15 PM | 46.3        | 50.6         | 45.6        |
| 11:15 PM - 11:20 PM | 46.8        | 59.5         | 45.2        |
| 11:20 PM - 11:25 PM | 48.1        | 68.3         | 45.5        |
| 11:25 PM - 11:30 PM | 47.0        | 51.0         | 45.7        |
| 11:30 PM - 11:35 PM | 46.2        | 54.4         | 45.2        |
| 11:35 PM - 11:40 PM | 46.8        | 57.3         | 45.5        |
| 11:40 PM - 11:45 PM | 45.2        | 51.1         | 43.9        |
| 11:45 PM - 11:50 PM | 45.6        | 51.9         | 44.2        |
| 11:50 PM - 11:55 PM | 45.5        | 54.9         | 44.0        |
| 11:55 PM - 12:00 AM | 44.7        | 49.3         | 43.8        |
| 12:00 AM - 12:05 AM | 46.8        | 60.2         | 44.0        |
| 12:05 AM - 12:10 AM | 45.4        | 51.3         | 44.1        |
| 12:10 AM - 12:15 AM | 45.2        | 51.6         | 44.0        |
| 12:15 AM - 12:20 AM | 45.4        | 51.8         | 43.8        |
| 12:20 AM - 12:25 AM | 45.6        | 52.7         | 44.2        |

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Approved by

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**Lot ID: 233853**  
Date Received : Jan 20, 2023  
Date Reported : Jan 21, 2023  
Report No. : 2548788-1

**P/O :**  
**Project Name** :  
**Project Location** :

Page 2 of 3

**Sample No.** 233853-1  
**Parameter** Noise  
**Location** หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158) (จุดอ้างอิง) (Shut down)  
**Measurement Date** Jan 17 - 18, 2023  
**Measurement by** Thananat Anake  
**Sound Level Meter** 00858516

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:25 AM - 12:30 AM | 44.7        | 50.3         | 43.4        |
| 12:30 AM - 12:35 AM | 44.4        | 49.2         | 43.5        |
| 12:35 AM - 12:40 AM | 44.7        | 53.3         | 43.3        |
| 12:40 AM - 12:45 AM | 44.1        | 47.6         | 43.0        |
| 12:45 AM - 12:50 AM | 44.7        | 50.9         | 43.1        |
| 12:50 AM - 12:55 AM | 44.3        | 49.5         | 43.2        |
| 12:55 AM - 01:00 AM | 44.0        | 49.2         | 42.8        |
| 01:00 AM - 01:05 AM | 44.0        | 47.4         | 43.1        |
| 01:05 AM - 01:10 AM | 44.2        | 51.1         | 43.2        |
| 01:10 AM - 01:15 AM | 44.7        | 54.3         | 43.2        |
| 01:15 AM - 01:20 AM | 44.4        | 48.2         | 43.4        |
| 01:20 AM - 01:25 AM | 44.7        | 54.5         | 43.4        |
| 01:25 AM - 01:30 AM | 45.3        | 55.3         | 43.1        |
| 01:30 AM - 01:35 AM | 46.3        | 59.6         | 43.0        |
| 01:35 AM - 01:40 AM | 44.5        | 53.4         | 43.4        |
| 01:40 AM - 01:45 AM | 47.9        | 59.8         | 43.3        |
| 01:45 AM - 01:50 AM | 46.6        | 58.9         | 43.3        |
| 01:50 AM - 01:55 AM | 44.7        | 50.1         | 43.3        |
| 01:55 AM - 02:00 AM | 46.4        | 61.2         | 43.5        |
| 02:00 AM - 02:05 AM | 44.7        | 52.1         | 42.9        |
| 02:05 AM - 02:10 AM | 44.3        | 52.7         | 42.6        |
| 02:10 AM - 02:15 AM | 45.7        | 53.4         | 43.0        |
| 02:15 AM - 02:20 AM | 46.3        | 58.0         | 43.7        |
| 02:20 AM - 02:25 AM | 44.7        | 52.2         | 43.1        |
| 02:25 AM - 02:30 AM | 43.7        | 47.8         | 42.9        |
| 02:30 AM - 02:35 AM | 44.7        | 52.5         | 43.0        |
| 02:35 AM - 02:40 AM | 43.2        | 46.6         | 42.6        |
| 02:40 AM - 02:45 AM | 42.8        | 51.2         | 42.1        |
| 02:45 AM - 02:50 AM | 43.4        | 51.1         | 42.3        |
| 02:50 AM - 02:55 AM | 42.7        | 48.9         | 42.0        |
| 02:55 AM - 03:00 AM | 42.8        | 46.7         | 42.2        |
| 03:00 AM - 03:05 AM | 43.4        | 47.1         | 42.4        |
| 03:05 AM - 03:10 AM | 43.8        | 46.9         | 43.0        |
| 03:10 AM - 03:15 AM | 44.2        | 50.7         | 43.0        |
| 03:15 AM - 03:20 AM | 45.7        | 58.1         | 42.8        |
| 03:20 AM - 03:25 AM | 45.1        | 54.7         | 43.1        |
| 03:25 AM - 03:30 AM | 45.2        | 55.3         | 43.5        |
| 03:30 AM - 03:35 AM | 44.1        | 47.6         | 43.1        |
| 03:35 AM - 03:40 AM | 44.6        | 55.4         | 43.1        |
| 03:40 AM - 03:45 AM | 42.6        | 51.2         | 41.9        |

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Approved by

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**Lot ID: 233853**  
Date Received : Jan 20, 2023  
Date Reported : Jan 21, 2023  
Report No. : 2548788-1

**P/O :**  
**Project Name** :  
**Project Location** :

Page 3 of 3

**Sample No.** 233853-1  
**Parameter** Noise  
**Location** หมู่ 4 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0697284, 1615158) (จุดอ้างอิง) (Shut down)  
**Measurement Date** Jan 17 - 18, 2023  
**Measurement by** Thananat Anake  
**Sound Level Meter** 00858516

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 03:45 AM - 03:50 AM | 43.1        | 48.8         | 42.0        |
| 03:50 AM - 03:55 AM | 43.2        | 50.4         | 41.5        |
| 03:55 AM - 04:00 AM | 43.6        | 55.4         | 41.3        |
| 04:00 AM - 04:05 AM | 43.5        | 52.6         | 42.1        |
| 04:05 AM - 04:10 AM | 47.5        | 62.2         | 41.8        |
| 04:10 AM - 04:15 AM | 43.5        | 58.1         | 41.4        |
| 04:15 AM - 04:20 AM | 43.7        | 50.3         | 42.0        |
| 04:20 AM - 04:25 AM | 42.6        | 51.6         | 41.1        |
| 04:25 AM - 04:30 AM | 42.6        | 54.1         | 41.2        |
| 04:30 AM - 04:35 AM | 42.5        | 53.2         | 40.6        |
| 04:35 AM - 04:40 AM | 45.3        | 61.4         | 41.2        |
| 04:40 AM - 04:45 AM | 42.9        | 48.1         | 41.4        |
| 04:45 AM - 04:50 AM | 44.3        | 51.7         | 42.2        |
| 04:50 AM - 04:55 AM | 46.7        | 59.5         | 40.1        |
| 04:55 AM - 05:00 AM | 40.8        | 49.8         | 39.5        |
| 05:00 AM - 05:05 AM | 41.1        | 51.8         | 39.3        |
| 05:05 AM - 05:10 AM | 41.3        | 46.0         | 39.9        |
| 05:10 AM - 05:15 AM | 44.3        | 57.6         | 39.8        |
| 05:15 AM - 05:20 AM | 44.5        | 56.6         | 39.8        |
| 05:20 AM - 05:25 AM | 42.7        | 53.3         | 39.5        |
| 05:25 AM - 05:30 AM | 42.3        | 49.5         | 39.8        |
| 05:30 AM - 05:35 AM | 44.8        | 55.0         | 41.1        |
| 05:35 AM - 05:40 AM | 43.6        | 49.4         | 41.7        |
| 05:40 AM - 05:45 AM | 43.8        | 50.4         | 41.8        |
| 05:45 AM - 05:50 AM | 43.9        | 51.5         | 41.6        |
| 05:50 AM - 05:55 AM | 42.0        | 50.4         | 39.4        |
| 05:55 AM - 06:00 AM | 43.6        | 49.6         | 41.1        |
| 06:00 AM - 07:00 AM | 48.4        | 74.8         | 41.8        |
| 07:00 AM - 08:00 AM | 56.3        | 93.6         | 44.7        |
| 08:00 AM - 09:00 AM | 51.8        | 71.1         | 46.3        |
| 09:00 AM - 10:00 AM | 53.9        | 90.8         | 47.9        |
| 10:00 AM - 11:00 AM | 50.3        | 72.0         | 46.2        |

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

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Approved by

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**Lot ID: 233853**  
Date Received : Jan 20, 2023  
Date Reported : Jan 21, 2023  
Report No. : 2548789-1

**P/O :**  
**Project Name** :  
**Project Location** :

Page 1 of 3

**Sample No.** 233853-2  
**Parameter** Noise  
**Location** หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0696655, 1616585) (จุดอ้างอิง) (Shut down)  
**Measurement Date** Jan 17 - 18, 2023  
**Measurement by** Thananat Anake  
**Sound Level Meter** 00858521

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 11:00 AM - 12:00 PM | 55.6        | 74.4         | 43.3        |
| 12:00 PM - 01:00 PM | 52.8        | 73.6         | 43.8        |
| 01:00 PM - 02:00 PM | 53.1        | 69.4         | 44.3        |
| 02:00 PM - 03:00 PM | 53.0        | 70.7         | 44.9        |
| 03:00 PM - 04:00 PM | 53.3        | 74.6         | 44.7        |
| 04:00 PM - 05:00 PM | 53.0        | 74.3         | 44.5        |
| 05:00 PM - 06:00 PM | 53.3        | 67.4         | 46.5        |
| 06:00 PM - 07:00 PM | 52.7        | 69.8         | 48.2        |
| 07:00 PM - 08:00 PM | 52.1        | 70.4         | 47.9        |
| 08:00 PM - 09:00 PM | 51.6        | 64.9         | 47.6        |
| 09:00 PM - 10:00 PM | 51.0        | 70.8         | 48.1        |
| 10:00 PM - 10:05 PM | 50.8        | 61.2         | 48.4        |
| 10:05 PM - 10:10 PM | 50.9        | 58.5         | 48.6        |
| 10:10 PM - 10:15 PM | 50.5        | 59.8         | 48.4        |
| 10:15 PM - 10:20 PM | 50.1        | 56.9         | 48.4        |
| 10:20 PM - 10:25 PM | 52.0        | 63.4         | 48.4        |
| 10:25 PM - 10:30 PM | 51.0        | 61.7         | 48.5        |
| 10:30 PM - 10:35 PM | 50.9        | 59.7         | 48.6        |
| 10:35 PM - 10:40 PM | 50.6        | 62.4         | 48.4        |
| 10:40 PM - 10:45 PM | 50.2        | 57.5         | 48.6        |
| 10:45 PM - 10:50 PM | 51.1        | 61.9         | 48.8        |
| 10:50 PM - 10:55 PM | 50.6        | 61.1         | 48.6        |
| 10:55 PM - 11:00 PM | 49.7        | 52.3         | 48.5        |
| 11:00 PM - 11:05 PM | 51.8        | 62.8         | 49.2        |
| 11:05 PM - 11:10 PM | 52.3        | 63.9         | 48.9        |
| 11:10 PM - 11:15 PM | 49.9        | 59.9         | 48.1        |
| 11:15 PM - 11:20 PM | 49.6        | 51.4         | 48.1        |
| 11:20 PM - 11:25 PM | 51.4        | 63.1         | 48.2        |
| 11:25 PM - 11:30 PM | 52.1        | 65.3         | 48.2        |
| 11:30 PM - 11:35 PM | 49.6        | 56.3         | 47.8        |
| 11:35 PM - 11:40 PM | 50.1        | 68.2         | 48.2        |
| 11:40 PM - 11:45 PM | 50.8        | 62.2         | 48.0        |
| 11:45 PM - 11:50 PM | 49.8        | 58.3         | 48.0        |
| 11:50 PM - 11:55 PM | 50.0        | 60.9         | 47.6        |
| 11:55 PM - 12:00 AM | 52.1        | 67.0         | 48.2        |
| 12:00 AM - 12:05 AM | 50.2        | 59.2         | 47.6        |
| 12:05 AM - 12:10 AM | 50.3        | 62.2         | 47.7        |
| 12:10 AM - 12:15 AM | 50.2        | 59.4         | 48.2        |
| 12:15 AM - 12:20 AM | 50.7        | 62.1         | 48.0        |
| 12:20 AM - 12:25 AM | 49.4        | 58.0         | 47.7        |

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Approved by

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**Lot ID: 233853**  
Date Received : Jan 20, 2023  
Date Reported : Jan 21, 2023  
Report No. : 2548789-1

**P/O** :  
**Project Name** :  
**Project Location** :

Page 2 of 3

**Sample No.** 233853-2  
**Parameter** Noise  
**Location** หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0696655, 1616585) (จุดอ้างอิง) (Shut down)  
**Measurement Date** Jan 17 - 18, 2023  
**Measurement by** Thananat Anake  
**Sound Level Meter** 00858521

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 12:25 AM - 12:30 AM | 54.4        | 70.3         | 48.2        |
| 12:30 AM - 12:35 AM | 49.3        | 51.6         | 48.0        |
| 12:35 AM - 12:40 AM | 49.2        | 50.7         | 47.8        |
| 12:40 AM - 12:45 AM | 51.8        | 64.7         | 47.7        |
| 12:45 AM - 12:50 AM | 52.0        | 63.5         | 47.6        |
| 12:50 AM - 12:55 AM | 55.0        | 69.6         | 47.4        |
| 12:55 AM - 01:00 AM | 52.6        | 67.5         | 47.4        |
| 01:00 AM - 01:05 AM | 52.9        | 65.6         | 48.0        |
| 01:05 AM - 01:10 AM | 48.5        | 50.2         | 47.2        |
| 01:10 AM - 01:15 AM | 51.3        | 63.0         | 47.9        |
| 01:15 AM - 01:20 AM | 53.7        | 69.2         | 47.2        |
| 01:20 AM - 01:25 AM | 49.2        | 63.5         | 47.1        |
| 01:25 AM - 01:30 AM | 50.6        | 66.7         | 47.3        |
| 01:30 AM - 01:35 AM | 48.7        | 51.7         | 47.3        |
| 01:35 AM - 01:40 AM | 49.9        | 62.5         | 47.6        |
| 01:40 AM - 01:45 AM | 49.9        | 60.4         | 47.7        |
| 01:45 AM - 01:50 AM | 49.1        | 59.2         | 47.6        |
| 01:50 AM - 01:55 AM | 49.3        | 58.6         | 47.5        |
| 01:55 AM - 02:00 AM | 50.6        | 66.1         | 47.3        |
| 02:00 AM - 02:05 AM | 55.1        | 66.9         | 47.4        |
| 02:05 AM - 02:10 AM | 54.7        | 70.4         | 47.3        |
| 02:10 AM - 02:15 AM | 49.9        | 62.4         | 47.1        |
| 02:15 AM - 02:20 AM | 48.1        | 50.1         | 46.9        |
| 02:20 AM - 02:25 AM | 48.4        | 51.6         | 46.9        |
| 02:25 AM - 02:30 AM | 48.7        | 50.8         | 46.9        |
| 02:30 AM - 02:35 AM | 51.2        | 65.6         | 46.7        |
| 02:35 AM - 02:40 AM | 48.2        | 50.6         | 46.7        |
| 02:40 AM - 02:45 AM | 49.6        | 59.9         | 46.9        |
| 02:45 AM - 02:50 AM | 50.4        | 64.0         | 46.7        |
| 02:50 AM - 02:55 AM | 49.2        | 58.3         | 46.8        |
| 02:55 AM - 03:00 AM | 49.0        | 60.4         | 46.5        |
| 03:00 AM - 03:05 AM | 48.1        | 50.2         | 46.4        |
| 03:05 AM - 03:10 AM | 48.2        | 50.2         | 46.6        |
| 03:10 AM - 03:15 AM | 48.1        | 50.5         | 46.5        |
| 03:15 AM - 03:20 AM | 51.9        | 64.4         | 46.2        |
| 03:20 AM - 03:25 AM | 53.0        | 67.2         | 45.8        |
| 03:25 AM - 03:30 AM | 48.0        | 59.7         | 45.7        |
| 03:30 AM - 03:35 AM | 53.4        | 66.2         | 46.7        |
| 03:35 AM - 03:40 AM | 51.1        | 66.3         | 45.8        |
| 03:40 AM - 03:45 AM | 47.0        | 50.4         | 45.2        |

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Approved by

Kanokkorn Anek  
Senior Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**Lot ID: 233853**  
Date Received : Jan 20, 2023  
Date Reported : Jan 21, 2023  
Report No. : 2548789-1

**P/O :**  
**Project Name** :  
**Project Location** :

Page 3 of 3

**Sample No.** 233853-2  
**Parameter** Noise  
**Location** หมู่ 5 บ้านแพะ ตำบลหัวปลวก (AN 1) (GPS 47P 0696655, 1616585) (จุดอ้างอิง) (Shut down)  
**Measurement Date** Jan 17 - 18, 2023  
**Measurement by** Thananat Anake  
**Sound Level Meter** 00858521

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 03:45 AM - 03:50 AM | 47.0        | 56.9         | 45.4        |
| 03:50 AM - 03:55 AM | 51.7        | 70.4         | 45.2        |
| 03:55 AM - 04:00 AM | 54.6        | 68.6         | 46.1        |
| 04:00 AM - 04:05 AM | 53.9        | 67.7         | 46.1        |
| 04:05 AM - 04:10 AM | 48.0        | 58.8         | 45.4        |
| 04:10 AM - 04:15 AM | 54.1        | 66.7         | 46.1        |
| 04:15 AM - 04:20 AM | 50.3        | 63.2         | 45.2        |
| 04:20 AM - 04:25 AM | 52.1        | 65.9         | 45.3        |
| 04:25 AM - 04:30 AM | 51.4        | 68.5         | 45.5        |
| 04:30 AM - 04:35 AM | 53.9        | 67.6         | 46.2        |
| 04:35 AM - 04:40 AM | 52.8        | 67.1         | 45.4        |
| 04:40 AM - 04:45 AM | 52.4        | 67.0         | 45.2        |
| 04:45 AM - 04:50 AM | 53.2        | 65.8         | 45.2        |
| 04:50 AM - 04:55 AM | 54.6        | 68.1         | 45.2        |
| 04:55 AM - 05:00 AM | 55.0        | 68.2         | 45.8        |
| 05:00 AM - 05:05 AM | 54.7        | 66.0         | 47.0        |
| 05:05 AM - 05:10 AM | 52.2        | 67.9         | 45.0        |
| 05:10 AM - 05:15 AM | 57.4        | 69.5         | 47.3        |
| 05:15 AM - 05:20 AM | 52.6        | 68.4         | 46.2        |
| 05:20 AM - 05:25 AM | 59.8        | 72.2         | 49.9        |
| 05:25 AM - 05:30 AM | 57.7        | 68.1         | 50.3        |
| 05:30 AM - 05:35 AM | 56.1        | 72.0         | 47.3        |
| 05:35 AM - 05:40 AM | 55.0        | 74.1         | 47.3        |
| 05:40 AM - 05:45 AM | 56.1        | 73.0         | 46.7        |
| 05:45 AM - 05:50 AM | 56.6        | 69.6         | 46.9        |
| 05:50 AM - 05:55 AM | 60.1        | 78.4         | 48.8        |
| 05:55 AM - 06:00 AM | 59.2        | 76.7         | 49.0        |
| 06:00 AM - 07:00 AM | 57.3        | 75.6         | 47.8        |
| 07:00 AM - 08:00 AM | 57.4        | 75.1         | 48.2        |
| 08:00 AM - 09:00 AM | 58.1        | 76.9         | 48.9        |
| 09:00 AM - 10:00 AM | 59.5        | 78.8         | 48.7        |
| 10:00 AM - 11:00 AM | 57.4        | 75.0         | 44.5        |

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

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Kanokkorn Anek  
Senior Manager

## ภาคผนวก ค-5

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ระดับเสียงในบริเวณการทำงาน





## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381313**

Date Received : Jul 22, 2023

Date Reported : Jul 29, 2023

Report Number: 2732484-1

Page 1 of 1

**Sample Number** 2381313-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** เดาดหลอม  
**Measurement Date** Jul 21, 2023  
**Measurement by** Phitsanupong Chaiya

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:14 AM - 10:14 AM | 86.7        | 97.3         | 84.9        |
| 09:59 AM - 10:59 AM | 88.3        | 107.0        | 84.5        |
| 10:44 AM - 11:44 AM | 86.7        | 104.2        | 84.3        |
| 11:29 AM - 12:29 PM | 87.7        | 105.8        | 84.8        |
| 12:14 PM - 01:14 PM | 86.2        | 101.7        | 84.2        |
| 12:59 PM - 01:59 PM | 87.2        | 106.7        | 84.2        |
| 01:44 PM - 02:44 PM | 86.7        | 101.9        | 84.7        |
| 02:29 PM - 03:29 PM | 87.6        | 106.1        | 84.2        |

Leq Average 8 hrs. (dB(A))

87.2

Lmax (dB(A))

107.0

Standard (dB(A))

90

140

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

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381313**

Date Received : Jul 22, 2023

Date Reported : Jul 29, 2023

Report Number: 2732485-1

Page 1 of 1

**Sample Number** 2381313-2  
**Parameter** Noise (Leq 8 hrs.)  
**Location** เครื่องคัดแยกขนาดชิ้นงาน  
**Measurement Date** Jul 21, 2023  
**Measurement by** Phitsanupong Chaiya

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:08 AM - 10:08 AM | 87.3        | 95.1         | 85.4        |
| 09:53 AM - 10:53 AM | 87.5        | 100.3        | 85.7        |
| 10:38 AM - 11:38 AM | 87.2        | 100.9        | 85.5        |
| 11:23 AM - 12:23 PM | 88.0        | 98.5         | 85.7        |
| 12:08 PM - 01:08 PM | 86.6        | 94.5         | 83.5        |
| 12:53 PM - 01:53 PM | 87.3        | 102.1        | 84.6        |
| 01:38 PM - 02:38 PM | 87.1        | 96.2         | 85.3        |
| 02:23 PM - 03:23 PM | 87.4        | 95.8         | 85.7        |

Leq Average 8 hrs. (dB(A))

87.3

Lmax (dB(A))

102.1

Standard (dB(A))

90

140

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

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381313**

Date Received : Jul 22, 2023

Date Reported : Jul 29, 2023

Report Number: 2732486-1

Page 1 of 1

**Sample Number** 2381313-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** เตาอบชิ้นงาน  
**Measurement Date** Jul 21, 2023  
**Measurement by** Phitsanupong Chaiya

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 09:01 AM - 10:01 AM | 90.1        | 99.6         | 83.7        |
| 09:46 AM - 10:46 AM | 89.7        | 103.4        | 84.0        |
| 10:31 AM - 11:31 AM | 87.8        | 100.3        | 82.9        |
| 11:16 AM - 12:16 PM | 89.4        | 99.8         | 83.7        |
| 12:01 PM - 01:01 PM | 86.7        | 97.9         | 82.5        |
| 12:46 PM - 01:46 PM | 87.6        | 99.2         | 83.4        |
| 01:31 PM - 02:31 PM | 91.0        | 101.9        | 84.1        |
| 02:16 PM - 03:16 PM | 92.4        | 100.7        | 85.7        |

Leq Average 8 hrs. (dB(A))

89.7

Lmax (dB(A))

103.4

Standard (dB(A))

90

140

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

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**Lot ID: 23116387**

Date Received : Oct 20, 2023

Date Reported : Oct 27, 2023

Report Number: 2818834-1

Page 1 of 1

**Sample Number** 23116387-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** เดาดหลอม  
**Measurement Date** Oct 19, 2023  
**Measurement by** Narupol Thongnuch

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 01:25 PM - 02:25 PM | 89.7        | 112.5        | 84.3        |
| 02:25 PM - 03:25 PM | 87.0        | 105.6        | 84.5        |
| 03:25 PM - 04:25 PM | 87.4        | 106.9        | 84.9        |
| 04:25 PM - 05:25 PM | 87.1        | 107.4        | 84.8        |
| 05:25 PM - 06:25 PM | 89.2        | 106.6        | 86.6        |
| 06:25 PM - 07:25 PM | 88.8        | 108.1        | 85.3        |
| 07:25 PM - 08:25 PM | 88.4        | 107.9        | 85.2        |
| 08:25 PM - 09:25 PM | 89.3        | 107.2        | 85.2        |

Leq Average 8 hrs. (dB(A))

88.5

Lmax (dB(A))

112.5

Standard (dB(A))

90

140

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

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย  
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**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O :** 4800958141  
**Project Name :**  
**Project Location :**

**Lot ID: 23116387**

Date Received : Oct 20, 2023  
Date Reported : Oct 27, 2023  
Report Number: 2818835-1

Page 1 of 1

**Sample Number** 23116387-2  
**Parameter** Noise (Leq 8 hrs.)  
**Location** เครื่องคัดแยกขนาดชิ้นงาน  
**Measurement Date** Oct 19, 2023  
**Measurement by** Narupol Thongnuch

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 01:20 PM - 02:20 PM | 86.3        | 99.4         | 83.8        |
| 02:20 PM - 03:20 PM | 86.3        | 100.2        | 83.9        |
| 03:20 PM - 04:20 PM | 86.6        | 99.4         | 83.7        |
| 04:20 PM - 05:20 PM | 86.9        | 97.3         | 84.8        |
| 05:20 PM - 06:20 PM | 86.9        | 95.4         | 84.6        |
| 06:20 PM - 07:20 PM | 88.0        | 100.1        | 85.6        |
| 07:20 PM - 08:20 PM | 86.4        | 100.6        | 85.0        |
| 08:20 PM - 09:20 PM | 86.3        | 99.4         | 85.2        |

Leq Average 8 hrs. (dB(A))

86.7

Lmax (dB(A))

100.6

Standard (dB(A))

90

140

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

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย  
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**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O :** 4800958141  
**Project Name :**  
**Project Location :**

**Lot ID: 23116387**

Date Received : Oct 20, 2023  
Date Reported : Oct 27, 2023  
Report Number: 2818836-1

Page 1 of 1

**Sample Number** 23116387-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** เตาอบชิ้นงาน  
**Measurement Date** Oct 19, 2023  
**Measurement by** Narupol Thongnuch

| Time                | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---------------------|-------------|--------------|-------------|
| 02:06 PM - 03:06 PM | 88.7        | 98.1         | 84.7        |
| 03:06 PM - 04:06 PM | 87.9        | 98.2         | 84.4        |
| 04:06 PM - 05:06 PM | 89.3        | 98.8         | 85.2        |
| 05:06 PM - 06:06 PM | 89.5        | 99.5         | 85.4        |
| 06:06 PM - 07:06 PM | 88.5        | 99.0         | 82.6        |
| 07:06 PM - 08:06 PM | 86.1        | 97.0         | 82.9        |
| 08:06 PM - 09:06 PM | 89.3        | 100.6        | 84.0        |
| 09:06 PM - 10:06 PM | 88.7        | 99.4         | 84.5        |

Leq Average 8 hrs. (dB(A))

88.6

Lmax (dB(A))

100.6

Standard (dB(A))

90

140

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

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย  
ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ. ๒๕๔๖

**Technical Management**

*Orawan R.*

Orawan Rakyong  
Scientist (3)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## ภาคผนวก ค-6

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ระดับความร้อนในบริเวณการทำงาน



## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**Lot ID: 23116388**

Date Received : Oct 20, 2023

Date Reported : Oct 26, 2023

Report Number: 2796591-1

Page 1 of 3

**Sample Number** 23116388-1  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Oct 19, 2023  
**Measurement by** Phitsanupong Chaiya  
**Location** ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเนพนัย แก้วกระจ่าง แผนก : เด้าหลอม)

| Location            | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณหน้าเด้าหลอม  | 30             | 29.2      | 27.2     | 33.8    | 33.4    |
| ห้องควบคุม          | 90             | 23.1      | 21.4     | 27.0    | 27.0    |
| Average (WBGT)      |                | 24.6      |          |         |         |
| 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**

Supot Salamteh  
Section Head

**Approved by**

Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :** 4800958141

**Project Name :**

**Project Location :**

**Lot ID: 23116388**

Date Received : Oct 20, 2023

Date Reported : Oct 26, 2023

Report Number: 2796591-1

Page 2 of 3

**Sample Number** 23116388-2  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Oct 19, 2023  
**Measurement by** Phitsanupong Chaiya  
**Location** ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณชญนนท์ รักเยี่ยม แผนก : เทหล่อ)

| Location            | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณเทหล่อ        | 30             | 30.5      | 28.0     | 36.3    | 36.3    |
| ห้องควบคุม          | 90             | 23.3      | 21.5     | 27.5    | 27.3    |
| Average (WBGT)      |                | 25.1      |          |         |         |
| 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.  
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**P/O :** 4800958141

**Project Name :**

**Project Location :**

**Lot ID: 23116388**

Date Received : Oct 20, 2023

Date Reported : Oct 26, 2023

Report Number: 2796591-1

Page 3 of 3

**Sample Number** 23116388-3  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Oct 19, 2023  
**Measurement by** Phitsanupong Chaiya  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณสงกรานต์ เขียวมณี แผนก : เตาอบ)

| Location            | Duration (min) | WBGT (°C) | NWB (°C) | GT (°C) | DB (°C) |
|---------------------|----------------|-----------|----------|---------|---------|
| บริเวณเตาอบชิ้นงาน  | 120            | 28.6      | 26.1     | 34.4    | 34.1    |
| Average (WBGT)      |                | 28.6      |          |         |         |
| 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**

Supot Salamteh  
Section Head

**Approved by**

Wichan Choonharat  
Assistant Manager

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## ภาคผนวก ค-7

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คุณภาพอากาศในสถานประกอบการ



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 1 of 10

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381315-1  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Air Quality  |
| <b>Location</b>                | บริเวณเตาหลอม  |
| <b>Personal Sampling</b>       | คุณณายุทธ ดาวจรัส                                    |
| <b>Date Analysis Commenced</b> | Jul 25, 2023   |
| <b>Condition of Sample</b>     | Drawn into two filter papers placed in each cassette |
| <b>Barometric Pressure</b>     | 754 mmHg   |
| <b>Atmospheric Temperature</b> | 33.0 °C  |

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust       | 09:11 AM - 11:11 AM | mg/m3 | -   | 0.15      | 0.24   | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 09:11 AM - 11:11 AM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 09:11 AM - 11:11 AM | mg/m3 | -   | 0.001     | 0.006  | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

Remark :

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 2 of 10

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381315-2  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Air Quality  |
| <b>Location</b>                | บริเวณเทศบาล   |
| <b>Personal Sampling</b>       | คุณชัยฤทธิ์ จันทรัฐ                                  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023   |
| <b>Condition of Sample</b>     | Drawn into two filter papers placed in each cassette |
| <b>Barometric Pressure</b>     | 754 mmHg   |
| <b>Atmospheric Temperature</b> | 33.0 °C  |

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust       | 09:19 AM - 11:19 AM | mg/m3 | -   | 0.15      | 0.17   | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 09:19 AM - 11:19 AM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 09:19 AM - 11:19 AM | mg/m3 | -   | 0.001     | <0.001 | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

Remark :

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

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 3 of 10

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381315-3  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Air Quality  |
| <b>Location</b>                | เครื่องคัดแยกขนาดชั้นงาน                             |
| <b>Personal Sampling</b>       | คุณอมรรัตน์ สลับสี                                   |
| <b>Date Analysis Commenced</b> | Jul 24, 2023   |
| <b>Condition of Sample</b>     | Drawn into two filter papers placed in each cassette |
| <b>Barometric Pressure</b>     | 754 mmHg   |
| <b>Atmospheric Temperature</b> | 33.0 °C  |

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust              | 12:10 PM - 02:10 PM | mg/m3 | -   | 0.15      | 0.92   | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| Silica (SiO <sub>2</sub> ) * | 12:10 PM - 03:10 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601          | MOL       | Bangkok          |

**Guideline :**

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 :** Phitsanupong Chaiya

**Remark :**

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

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 4 of 10

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381315-4  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Air Quality  |
| <b>Location</b>                | ปรับปรุงคุณภาพทราย                                   |
| <b>Personal Sampling</b>       | คุณกฤษกร แก้วชาลุน                                   |
| <b>Date Analysis Commenced</b> | Jul 24, 2023   |
| <b>Condition of Sample</b>     | Drawn into two filter papers placed in each cassette |
| <b>Barometric Pressure</b>     | 754 mmHg   |
| <b>Atmospheric Temperature</b> | 33.0 °C  |

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust              | 09:00 AM - 11:00 AM | mg/m3 | -   | 0.15      | 0.31   | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| Silica (SiO <sub>2</sub> ) * | 09:00 AM - 12:00 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601          | MOL       | Bangkok          |

**Guideline :**

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 :** Phitsanupong Chaiya

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*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 5 of 10

**Sample Number** 2381315-5  
**Sampled Date** Jul 21, 2023  
**Sample Description** Air Quality  
**Location** เครื่องปั้นแบบทราย  
**Personal Sampling** คุณอวิรุฒ ศรีสิงห์  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method       | Guideline | Testing Location |
|------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------|-----------|------------------|
| <b>Air Testing</b>     |                     |       |     |           |        |                 |              |           |                  |
| Triethanolamine(TEA) * | 09:03 AM - 11:03 AM | mg/m3 | -   | 0.1       | <0.1   | 5               | OSHA, PV2141 | 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 (2022).

**Sampled By :** Phitsanupong Chaiya

**Remark :**

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager





## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 6 of 10

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381315-6  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Air Quality  |
| <b>Location</b>                | บริเวณเตาหลอม  |
| <b>Date Analysis Commenced</b> | Jul 25, 2023   |
| <b>Condition of Sample</b>     | Drawn into two filter papers placed in each cassette |
| <b>Barometric Pressure</b>     | 754 mmHg   |
| <b>Atmospheric Temperature</b> | 33.0 °C  |

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Total dust            | 09:11 AM - 11:11 AM | mg/m3 | -   | 0.15      | 1.85   | 15              | Based on NIOSH (1994), 0500 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 09:11 AM - 11:11 AM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 09:11 AM - 11:11 AM | mg/m3 | -   | 0.001     | 0.04   | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 7 of 10

|                                |  |
|--------------------------------|--|
| <b>Sample Number</b>           | 2381315-7  |
| <b>Sampled Date</b>            | Jul 21, 2023   |
| <b>Sample Description</b>      | Air Quality  |
| <b>Location</b>                | บริเวณเทศบาล   |
| <b>Date Analysis Commenced</b> | Jul 25, 2023   |
| <b>Condition of Sample</b>     | Drawn into two filter papers placed in each cassette |
| <b>Barometric Pressure</b>     | 754 mmHg   |
| <b>Atmospheric Temperature</b> | 33.0 °C  |

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Total dust            | 09:19 AM - 11:19 AM | mg/m3 | -   | 0.15      | 0.46   | 15              | Based on NIOSH (1994), 0500 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 09:19 AM - 11:19 AM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 09:19 AM - 11:19 AM | mg/m3 | -   | 0.001     | 0.009  | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 8 of 10

**Sample Number** 2381315-8  
**Sampled Date** Jul 21, 2023  
**Sample Description** Air Quality  
**Location** เครื่องคัดแยกขนาดชั้นงาน  
**Date Analysis Commenced** Jul 24, 2023  
**Condition of Sample** Drawn into three filter papers placed in each cassette  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                      | Sampled Date/time   | Unit              | LOD | LOQ (LOR) | Result | Guideline Limit | Method             | Guideline | Testing Location |
|------------------------------|---------------------|-------------------|-----|-----------|--------|-----------------|--------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |                   |     |           |        |                 |                    |           |                  |
| Silica (SiO <sub>2</sub> ) * | 12:15 PM - 03:15 PM | mg/m <sup>3</sup> | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601 | MOL       | Bangkok          |

**Guideline :**

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)

**Sampled By :** Phitsanupong Chaiya

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O** : 4800958141  
**Project Name** :  
**Project Location** :

**Lot ID: 23141321**

Date Received : Dec 18, 2023

Date Reported : Dec 26, 2023

Report Number : 2856761-1

Page 1 of 2

**Sample Number** : 23141321-1  
**Sampled Date** : Dec 18, 2023  
**Sample Description** : Air Quality  
**Location** : เครื่องคัดแยกขนาดชั้นงาน  
**Date Analysis Commenced** : Dec 21, 2023  
**Condition of Sample** : Drawn into two 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 |
|--------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-----------|------------------|
| <b>Air Testing</b> |                     |       |     |           |        |                 |  |           |                  |
| Respirable Dust    | 09:39 AM - 11:39 AM | mg/m3 | -   | 0.15      | <0.15  | 5               | In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling) | OSHA      | Bangkok          |
| Total dust         | 09:39 AM - 11:39 AM | mg/m3 | -   | 0.15      | 0.50   | 15              | In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling) | OSHA      | Bangkok          |

### Guideline :

OSHA : Occupational Safety and Health Administration

**Sampled By** : Thanong Wiriyasahakij

### Remark :

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Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 9 of 10

**Sample Number** 2381315-9  
**Sampled Date** Jul 21, 2023  
**Sample Description** Air Quality  
**Location** ปรับปรุงคุณภาพทราย  
**Date Analysis Commenced** Jul 24, 2023  
**Condition of Sample** Drawn into three filter papers placed in each cassette  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method             | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                    |           |                  |
| Silica (SiO <sub>2</sub> ) * | 09:00 AM - 12:00 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601 | MOL       | Bangkok          |

**Guideline :**

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)

**Sampled By :** Phitsanupong Chaiya

**Remark :**

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Approved by

*Sawitree N.*

Sawitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O** : 4800958141  
**Project Name** :  
**Project Location** :

**Lot ID: 23141321**

Date Received : Dec 18, 2023

Date Reported : Dec 26, 2023

Report Number : 2856761-1

Page 2 of 2

**Sample Number** : 23141321-2  
**Sampled Date** : Dec 18, 2023  
**Sample Description** : Air Quality  
**Location** : ปรับปรุงคุณภาพทราย  
**Date Analysis Commenced** : Dec 21, 2023  
**Condition of Sample** : Drawn into two filter papers placed in each cassette  
**Barometric Pressure** : 760 mmHg  
**Atmospheric Temperature** : 25.0 °C

| Analyte            | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method   | Guideline | Testing Location |
|--------------------|---------------------|-------|-----|-----------|--------|-----------------|--|-----------|------------------|
| <b>Air Testing</b> |                     |       |     |           |        |                 |  |           |                  |
| Respirable Dust    | 09:40 AM - 11:40 AM | mg/m3 | -   | 0.15      | <0.15  | 5               | In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling) | OSHA      | Bangkok          |
| Total dust         | 09:40 AM - 11:40 AM | mg/m3 | -   | 0.15      | 0.17   | 15              | In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling) | OSHA      | Bangkok          |

### Guideline :

OSHA : Occupational Safety and Health Administration

**Sampled By** : Thanong Wiriyasahakij

### Remark :

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Approved by

*Orawan R.*

Orawan Rakyong  
Scientist (3)

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160

**P/O :**

**Project Name :**

**Project Location :**

**Lot ID: 2381315**

Date Received : Jul 21, 2023

Date Reported : Aug 10, 2023

Report Number : 2715131-1

Page 10 of 10

**Sample Number** 2381315-10  
**Sampled Date** Jul 21, 2023  
**Sample Description** Air Quality  
**Location** เครื่องปั้นแบบทราย  
**Date Analysis Commenced** Jul 25, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 754 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method       | Guideline | Testing Location |
|------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------|-----------|------------------|
| <b>Air Testing</b>     |                     |       |     |           |        |                 |              |           |                  |
| Triethanolamine(TEA) * | 09:03 AM - 11:03 AM | mg/m3 | -   | 0.1       | <0.1   | 5               | OSHA, PV2141 | 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 (2022).

**Sampled By :** Phitsanupong Chaiya

Remark :

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Approved by

*Savitree N.*

Savitree Noisangiam  
Manager



## Analysis / Test Report

TESTING  
No.0009

**Client** : Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O** : 4800958141  
**Project Name** :  
**Project Location** :

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 1 of 10

**Sample Number** 23116389-1  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** บริเวณเตาหลอม  
**Personal Sampling** คุณพนัย แก้วกระจ่าง  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into two filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust       | 10:15 AM - 12:15 PM | mg/m3 | -   | 0.15      | <0.15  | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 10:15 AM - 12:15 PM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 10:15 AM - 12:15 PM | mg/m3 | -   | 0.001     | <0.001 | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

### Remark :

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Approved by

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Magotteaux Co., Ltd.  
9 Moo 5, Teennoen Rd., Huapluk, Saohai, Saraburi Thailand 18160  
**P/O :** 4800958141  
**Project Name :**  
**Project Location :**

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 2 of 10

**Sample Number** 23116389-2  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** บริเวณเทศบาล  
**Personal Sampling** คณะกรรมการ รักษะเยี่ยม  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into two filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust       | 10:20 AM - 12:20 PM | mg/m3 | -   | 0.15      | <0.15  | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 10:20 AM - 12:20 PM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 10:20 AM - 12:20 PM | mg/m3 | -   | 0.001     | <0.001 | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

### Remark :

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## Analysis / Test Report

TESTING  
No.0009

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**P/O** : 4800958141  
**Project Name** :  
**Project Location** :

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 3 of 10

**Sample Number** 23116389-3  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** เครื่องคัดแยกขนาดชั้นงาน  
**Personal Sampling** คุณภาพ แกว่สาย  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into two filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust              | 10:25 AM - 12:25 PM | mg/m3 | -   | 0.15      | <0.15  | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| Silica (SiO <sub>2</sub> ) * | 10:25 AM - 01:25 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601          | MOL       | Bangkok          |

### Guideline :

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** : Phitsanupong Chaiya

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**P/O** : 4800958141  
**Project Name** :  
**Project Location** :

**Lot ID: 23116389**

Date Received : Oct 20, 2023

Date Reported : Nov 09, 2023

Report Number : 2796596-1

Page 4 of 10

**Sample Number** 23116389-4  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** ปรับปรุงคุณภาพทราย  
**Personal Sampling** คุณคมสัน คงเจริญถิ่น  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into two filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust              | 10:30 AM - 12:30 PM | mg/m3 | -   | 0.15      | <0.15  | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| Silica (SiO <sub>2</sub> ) * | 10:30 AM - 01:30 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601          | MOL       | Bangkok          |

### Guideline :

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** : Phitsanupong Chaiya

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No.0009

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**Project Name** :  
**Project Location** :

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 5 of 10

**Sample Number** 23116389-5  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** เครื่องปั้นแบบทราย  
**Personal Sampling** คุณสุรศักดิ์ นิตย์สูงเนิน  
**Date Analysis Commenced** Oct 27, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method       | Guideline | Testing Location |
|------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------|-----------|------------------|
| <b>Air Testing</b>     |                     |       |     |           |        |                 |              |           |                  |
| Triethanolamine(TEA) * | 10:35 AM - 12:35 PM | mg/m3 | -   | 0.1       | <0.1   | 5               | OSHA, PV2141 | 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 (2022).

**Sampled By** : Phitsanupong Chaiya

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**Project Name** :  
**Project Location** :

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 6 of 10

**Sample Number** 23116389-6  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** บริเวณเตาหลอม  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into two filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Total dust            | 10:15 AM - 12:15 PM | mg/m3 | -   | 0.15      | 0.25   | 15              | Based on NIOSH (1994), 0500 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 10:15 AM - 12:15 PM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 10:15 AM - 12:15 PM | mg/m3 | -   | 0.001     | <0.001 | 0.1(1)          | 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 (2022).

OSHA : Occupational Safety and Health Administration

**Note** : (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By** : Phitsanupong Chaiya

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**Project Name :**  
**Project Location :**

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 7 of 10

**Sample Number** 23116389-7  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** บริเวณเทศบาล  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into two filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte               | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|-----------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>    |                     |       |     |           |        |                 |                             |           |                  |
| Total dust            | 10:20 AM - 12:20 PM | mg/m3 | -   | 0.15      | 0.79   | 15              | Based on NIOSH (1994), 0500 | OSHA      | Bangkok          |
| <b>Metals Testing</b> |                     |       |     |           |        |                 |                             |           |                  |
| Chromium *            | 10:20 AM - 12:20 PM | mg/m3 | -   | 0.002     | <0.002 | 0.5             | NIOSH (2003), 7301          | ACGIH     | Bangkok          |
| Manganese *           | 10:20 AM - 12:20 PM | mg/m3 | -   | 0.001     | 0.003  | 0.1(1)          | NIOSH (2003), 7301          | ACGIH     | Bangkok          |

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ACGIH : The American Conference of Governmental Industrial Hygiene, The 6th edition of the Documentation of the Threshold Limit Values and Biological Exposure Indices (2022).

OSHA : Occupational Safety and Health Administration

**Note :** (1)Guideline for Metal and Inorganic compounds as Manganese (2013)

**Sampled By :** Phitsanupong Chaiya

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**P/O :** 4800958141  
**Project Name :**  
**Project Location :**

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 8 of 10

**Sample Number** 23116389-8  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** เครื่องคัดแยกขนาดชั้นงาน  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into three filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust              | 10:25 AM - 12:25 PM | mg/m3 | -   | 0.15      | 0.20   | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| Silica (SiO <sub>2</sub> ) * | 10:25 AM - 01:25 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601          | MOL       | Bangkok          |
| Total dust                   | 12:25 PM - 02:25 PM | mg/m3 | -   | 0.15      | 0.67   | 15              | Based on NIOSH (1994), 0500 | OSHA      | Bangkok          |

### Guideline :

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OSHA : Occupational Safety and Health Administration

**Sampled By :** Phitsanupong Chaiya

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**P/O** : 4800958141  
**Project Name** :  
**Project Location** :

**Lot ID: 23116389**

Date Received : Oct 20, 2023  
Date Reported : Nov 09, 2023  
Report Number : 2796596-1

Page 9 of 10

**Sample Number** 23116389-9  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** ปรับปรุงคุณภาพทราย  
**Date Analysis Commenced** Oct 21, 2023  
**Condition of Sample** Drawn into three filter papers placed in each cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                      | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method                      | Guideline | Testing Location |
|------------------------------|---------------------|-------|-----|-----------|--------|-----------------|-----------------------------|-----------|------------------|
| <b>Air Testing</b>           |                     |       |     |           |        |                 |                             |           |                  |
| Respirable Dust              | 10:30 AM - 12:30 PM | mg/m3 | -   | 0.15      | <0.15  | 5               | Based on NIOSH (1998), 0600 | OSHA      | Bangkok          |
| Silica (SiO <sub>2</sub> ) * | 10:30 AM - 01:30 PM | mg/m3 | -   | 0.020     | <0.020 | 0.025 (R)       | NIOSH (1994), 7601          | MOL       | Bangkok          |
| Total dust                   | 10:30 AM - 12:30 PM | mg/m3 | -   | 0.15      | 0.21   | 15              | Based on NIOSH (1994), 0500 | OSHA      | Bangkok          |

### Guideline :

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**Project Location :**

**Lot ID: 23116389**

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Report Number : 2796596-1

Page 10 of 10

**Sample Number** 23116389-10  
**Sampled Date** Oct 19, 2023  
**Sample Description** Air Quality  
**Location** เครื่องปั้นแบบทราย  
**Date Analysis Commenced** Oct 27, 2023  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette  
**Barometric Pressure** 757 mmHg  
**Atmospheric Temperature** 33.0 °C

| Analyte                | Sampled Date/time   | Unit  | LOD | LOQ (LOR) | Result | Guideline Limit | Method       | Guideline | Testing Location |
|------------------------|---------------------|-------|-----|-----------|--------|-----------------|--------------|-----------|------------------|
| <b>Air Testing</b>     |                     |       |     |           |        |                 |              |           |                  |
| Triethanolamine(TEA) * | 10:35 AM - 12:35 PM | mg/m3 | -   | 0.1       | <0.1   | 5               | OSHA, PV2141 | 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 (2022).

**Sampled By :** Phitsanupong Chaiya

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