



เอกสารแนบ 10
หนังสือรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม



MM-N12

Analysis / Test Report



Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1

Page 2 of 12

Sample Number 2492620-2
Sampled Date Aug 25, 2024
Sample Description Air Quality
Location Ban Nong Sang (GPS 47Q 0678405, 1805760)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 30.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.014 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.032 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

- Remark :
- LOD : Limit of Detection
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 - The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Scientist (3)

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Page 1 of 12

Sample Number 2492620-1
Sampled Date Aug 24, 2024
Sample Description Air Quality
Location Ban Nong Sang (GPS 47Q 0678405, 1805760)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 30.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.013 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.024 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1

Page 4 of 12

Sample Number 2492620-4
Sampled Date Aug 24, 2024
Sample Description Air Quality
Location Ban Khao Kham (GPS 47Q 0675845, 1806452)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 28.7 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.020 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | | |
| Total Suspended Particulate | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.036 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
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Page 3 of 12

Sample Number 2492620-3
Sampled Date Aug 26, 2024
Sample Description Air Quality
Location Ban Nong Sang (GPS 47Q 0678405, 1805760)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 30.2 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.019 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.036 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Project Name : Air Test
Project Location :

Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1

Page 6 of 12

Sample Number 2492620-6
Sampled Date Aug 26, 2024
Sample Description Air Quality
Location Ban Khao Kham (GPS 47Q 0675845, 1806452)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.018 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | |
| Total Suspended Particulate | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.029 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Thanit Janjop

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1

Page 5 of 12

Sample Number 2492620-5
Sampled Date Aug 25, 2024
Sample Description Air Quality
Location Ban Khao Kham (GPS 47Q 0675845, 1806452)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.015 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | |
| Total Suspended Particulate | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.021 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1

Page 8 of 12

Sample Number 2492620-8
Sampled Date Aug 25, 2024
Sample Description Air Quality
Location Ban Tung Thong (GPS 47Q 0674666, 1805755)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.3 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.013 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | | |
| Total Suspended Particulate | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.022 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492620
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1

Page 7 of 12

Sample Number 2492620-7
Sampled Date Aug 24, 2024
Sample Description Air Quality
Location Ban Tung Thong (GPS 47Q 0674666, 1805755)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.1 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.012 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.024 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Project Location :

Lot ID: 2492620

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Report Number : 3080701-1

Page 10 of 12

Sample Number 2492620-10
Sampled Date Aug 24, 2024
Sample Description Air Quality
Location Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.7 °C

| Analyte | Sampled Date/time | Unit | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.012 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | |
| Total Suspended Particulate | 24/08/24 - 25/08/24 | mg/m ³ | - | 0.005 | 0.021 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Project Location :

Lot ID: 2492620

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Report Number : 3080701-1

Page 9 of 12

Sample Number 2492620-9
Sampled Date Aug 26, 2024
Sample Description Air Quality
Location Ban Tung Thong (GPS 47Q 0674666, 1805755)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.4 °C

| Analyte | Sampled Date/time | Unit | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.021 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | |
| Total Suspended Particulate | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.027 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Page 12 of 12

Sample Number 2492620-12
Sampled Date Aug 26, 2024
Sample Description Air Quality
Location Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.9 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.015 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 26/08/24 - 27/08/24 | mg/m ³ | - | 0.005 | 0.020 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

- Remark :
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 - "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492620

Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080701-1



Page 11 of 12

Sample Number 2492620-11
Sampled Date Aug 25, 2024
Sample Description Air Quality
Location Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.9 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.013 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 25/08/24 - 26/08/24 | mg/m ³ | - | 0.005 | 0.018 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 2 of 15

Sample Number 2492623-2
Sampled Date Aug 21, 2024
Sample Description Air Quality
Location Ban Dong Long (GPS 47Q 0678214, 1802239)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 31.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 21/08/24 - 22/08/24 | mg/m ³ | - | 0.005 | 0.017 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Thanit Janjop
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 1 of 15

Sample Number 2492623-1
Sampled Date Aug 20, 2024
Sample Description Air Quality
Location Ban Dong Long (GPS 47Q 0678214, 1802239)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 30.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 20/08/24 - 21/08/24 | mg/m ³ | - | 0.005 | 0.009 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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TESTING
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 4 of 15

Sample Number 2492623-4
Sampled Date Aug 20, 2024
Sample Description Air Quality
Location Ban Nong Ra Man (GPS 47Q 0674693, 1802561)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.5 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|-------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 20/08/24 - 21/08/24 | mg/m ³ | - | 0.005 | 0.009 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 3 of 15

Sample Number 2492623-3
Sampled Date Aug 22, 2024
Sample Description Air Quality
Location Ban Dong Long (GPS 47Q 0678214, 1802239)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 32.6 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|-------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 22/08/24 - 23/08/24 | mg/m ³ | - | 0.005 | 0.018 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 6 of 15

Sample Number 2492623-6
Sampled Date Aug 22, 2024
Sample Description Air Quality
Location Ban Nong Ra Man (GPS 47Q 0674693, 1802561)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 31.2 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|-------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 22/08/24 - 23/08/24 | mg/m ³ | - | 0.005 | 0.019 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 5 of 15

Sample Number 2492623-5
Sampled Date Aug 21, 2024
Sample Description Air Quality
Location Ban Nong Ra Man (GPS 47Q 0674693, 1802561)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 29.1 °C

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|-------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 21/08/24 - 22/08/24 | mg/m ³ | - | 0.005 | 0.017 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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P/O : 47581

Project Name : Air Test

Project Location :

Lot ID: 2492623

Date Received : Aug 29, 2024

Date Reported : Sep 04, 2024

Report Number : 3080706-1

TESTING
No.0009

Page 8 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-8 |
| Sampled Date | Aug 21, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khao Mor (GPS 47Q 0675723, 1804284) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 30.2 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 21/08/24 - 22/08/24 | mg/m ³ | - | 0.005 | 0.014 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :

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P/O : 47581

Project Name : Air Test

Project Location :

Lot ID: 2492623

Date Received : Aug 29, 2024

Date Reported : Sep 04, 2024

Report Number : 3080706-1

TESTING
No.0009

Page 7 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-7 |
| Sampled Date | Aug 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khao Mor (GPS 47Q 0675723, 1804284) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 30.4 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 20/08/24 - 21/08/24 | mg/m ³ | - | 0.005 | 0.012 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492623

Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1



Page 10 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-10 |
| Sampled Date | Aug 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 32.1 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|--------|---|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 20/08/24 - 21/08/24 | mg/m ³ | - | 0.005 | 0.009 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) |

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Project Name : Air Test
Project Location :

Lot ID: 2492623

Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1



Page 9 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-9 |
| Sampled Date | Aug 22, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khac Mor (GPS 47Q 0675723, 1804284) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 32.1 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|--------|---|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 22/08/24 - 23/08/24 | mg/m ³ | - | 0.005 | 0.018 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) |

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492623

Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 12 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-12 |
| Sampled Date | Aug 22, 2024 |
| Sample Description | Air Quality |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 32.7 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|-------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 22/08/24 - 23/08/24 | mg/m ³ | - | 0.005 | 0.015 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :

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

Sampled By : Thanit Janjop

Remark :

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 2492623

Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 11 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-11 |
| Sampled Date | Aug 21, 2024 |
| Sample Description | Air Quality |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 31.6 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|-------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 21/08/24 - 22/08/24 | mg/m ³ | - | 0.005 | 0.012 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :

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

Sampled By : Thanit Janjop

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 14 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-14 |
| Sampled Date | Aug 21, 2024 |
| Sample Description | Air Quality |
| Location | Ban Long Du (GPS 47Q 0671962, 1799044) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 31.4 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 21/08/24 - 22/08/24 | mg/m ³ | - | 0.005 | 0.013 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :
NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Thanit Janjop
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 13 of 15

| | |
|-------------------------|--|
| Sample Number | 2492623-13 |
| Sampled Date | Aug 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Long Du (GPS 47Q 0671962, 1799044) |
| Date Analysis Commenced | Aug 30, 2024 |
| Condition of Sample | Drawn into one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 750 mmHg |
| Atmospheric Temperature | 31.6 °C |

| Analyte | Sampled Date/time | Unit | LOD (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 20/08/24 - 21/08/24 | mg/m ³ | - | 0.005 | 0.008 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :
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Sampled By : Thanit Janjop
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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 1 of 27

Sample Number 24128650-1
Sampled Date Nov 18, 2024
Sample Description Air Quality
Location Ban Dong Long (GPS 47Q 0678206, 1802191)
Date Analysis Commenced Nov 28, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 752 mmHg
Atmospheric Temperature 33.1 °C

| Analyte | Sampled Date/time | Unit | LOD | Result | Guideline Limit | Method | Guideline Testing Location |
|---------|-------------------|------|-----|--------|-----------------|--------|----------------------------|
|---------|-------------------|------|-----|--------|-----------------|--------|----------------------------|

Air Testing
10
Particulate matter as PM
18/11/24 - 19/11/24 mg/m3 - 0.005 0.026 0.12
In - house method : STM
04-052 based on U.S.
Environmental Protection
Agency 40 CFR, method
50, Appendix J, revised
as of July 1, 2008
(Include sampling)

Total Suspended
Particulate
18/11/24 - 19/11/24 mg/m3 - 0.005 0.044 0.33
In - house method : STM
04-051 based on U.S.
Environmental Protection
Agency 40 CFR, method
50, Appendix B, revised
as of July 1, 2008
(Include sampling)

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

Remark :
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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 2492623
Date Received : Aug 29, 2024
Date Reported : Sep 04, 2024
Report Number : 3080706-1

Page 15 of 15

Sample Number 2492623-15
Sampled Date Aug 22, 2024
Sample Description Air Quality
Location Ban Long Du (GPS 47Q 0671962, 1799044)
Date Analysis Commenced Aug 30, 2024
Condition of Sample Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 750 mmHg
Atmospheric Temperature 32.6 °C

| Analyte | Sampled Date/time | Unit | LOD | Result | Guideline Limit | Method | Guideline Testing Location |
|---------|-------------------|------|-----|--------|-----------------|--------|----------------------------|
|---------|-------------------|------|-----|--------|-----------------|--------|----------------------------|

Air Testing
10
Particulate matter as PM
22/08/24 - 23/08/24 mg/m3 - 0.005 0.015 0.12
In - house method : STM
04-052 based on U.S.
Environmental Protection
Agency 40 CFR, method
50, Appendix J, revised
as of July 1, 2008
(Include sampling)

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

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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 3 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-3 |
| Sampled Date | Nov 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Dong Long (GPS 47Q 0678206, 1802191) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.031 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.061 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Analysis / Test Report

TESTING
No.0009

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 2 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-2 |
| Sampled Date | Nov 19, 2024 |
| Sample Description | Air Quality |
| Location | Ban Dong Long (GPS 47Q 0678206, 1802191) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.026 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.040 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :
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Sampled By : Jirayut Kasemsuk

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 5 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-5 |
| Sampled Date | Nov 19, 2024 |
| Sample Description | Air Quality |
| Location | Ban Nong Ra Man (GPS 47Q 0674693, 1802561) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|--------|---|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.022 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) |
| Total Suspended Particulate | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.032 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) |

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

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Analysis / Test Report

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 4 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-4 |
| Sampled Date | Nov 18, 2024 |
| Sample Description | Air Quality |
| Location | Ban Nong Ra Man (GPS 47Q 0674693, 1802561) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----------|--------|-----------------|--------|---|
| Air Testing | | | | | | | |
| Particulate matter as PM ₁₀ | 18/11/24 - 19/11/24 | mg/m ³ | - | 0.005 | 0.027 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) |
| Total Suspended Particulate | 18/11/24 - 19/11/24 | mg/m ³ | - | 0.005 | 0.041 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) |

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

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MM-N12



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 7 of 27

| | | | | | | | | |
|-----------------------------|---|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Sample Number | 24128650-7 | | | | | | | |
| Sampled Date | Nov 22, 2024 | | | | | | | |
| Sample Description | Air Quality | | | | | | | |
| Location | Ban Nong Sang (GPS 47Q 0678405, 1805760) | | | | | | | |
| Date Analysis Commenced | Nov 28, 2024 | | | | | | | |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag | | | | | | | |
| Barometric Pressure | 752 mmHg | | | | | | | |
| Atmospheric Temperature | 32.2 °C | | | | | | | |
| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
| Air Testing | Particulate matter as PM 10 | mg/m3 | - | 0.005 | 0.031 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| | | | | | | | | |
| Total Suspended Particulate | 22/11/24 - 23/11/24 | mg/m3 | - | 0.005 | 0.057 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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2344-23/ EMAIL



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 6 of 27

| | | | | | | | | |
|-----------------------------|---|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Sample Number | 24128650-6 | | | | | | | |
| Sampled Date | Nov 20, 2024 | | | | | | | |
| Sample Description | Air Quality | | | | | | | |
| Location | Ban Nong Ra Man (GPS 47Q 0674693, 1802561) | | | | | | | |
| Date Analysis Commenced | Nov 28, 2024 | | | | | | | |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag | | | | | | | |
| Barometric Pressure | 752 mmHg | | | | | | | |
| Atmospheric Temperature | 33.1 °C | | | | | | | |
| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 20/11/24 - 21/11/24 | mg/m3 | - | 0.005 | 0.036 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 20/11/24 - 21/11/24 | mg/m3 | - | 0.005 | 0.065 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Analysis / Test Report

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 9 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-9 |
| Sampled Date | Nov 24, 2024 |
| Sample Description | Air Quality |
| Location | Ban Nong Sang (GPS 47Q 0678405, 1805760) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 24/11/24 - 25/11/24 | mg/m ³ | - | 0.005 | 0.028 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 24/11/24 - 25/11/24 | mg/m ³ | - | 0.005 | 0.054 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 8 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-8 |
| Sampled Date | Nov 23, 2024 |
| Sample Description | Air Quality |
| Location | Ban Nong Sang (GPS 47Q 0678405, 1805760) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 23/11/24 - 24/11/24 | mg/m ³ | - | 0.005 | 0.022 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 23/11/24 - 24/11/24 | mg/m ³ | - | 0.005 | 0.043 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Analysis / Test Report

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 11 of 27

Sample Number 24128650-11
Sampled Date Nov 19, 2024
Sample Description Air Quality
Location Ban Khao Mor (GPS 47Q 0675723, 1804284)
Date Analysis Commenced Nov 28, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 752 mmHg
Atmospheric Temperature 33.1 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.020 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.040 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 10 of 27

Sample Number 24128650-10
Sampled Date Nov 18, 2024
Sample Description Air Quality
Location Ban Khao Mor (GPS 47Q 0675723, 1804284)
Date Analysis Commenced Nov 28, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 752 mmHg
Atmospheric Temperature 33.1 °C

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 18/11/24 - 19/11/24 | mg/m ³ | - | 0.005 | 0.021 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 18/11/24 - 19/11/24 | mg/m ³ | - | 0.005 | 0.038 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 13 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-13 |
| Sampled Date | Nov 22, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khao Kham (GPS 47Q 0675845, 1806452) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 22/11/24 - 23/11/24 | mg/m ³ | - | 0.005 | 0.036 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 22/11/24 - 23/11/24 | mg/m ³ | - | 0.005 | 0.048 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 12 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-12 |
| Sampled Date | Nov 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khao Mor (GPS 47Q 0675723, 1804284) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.030 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.071 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Analysis / Test Report

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 15 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-15 |
| Sampled Date | Nov 24, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khao Kham (GPS 47Q 0675845, 1806452) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 24/11/24 - 25/11/24 | mg/m3 | - | 0.005 | 0.029 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 24/11/24 - 25/11/24 | mg/m3 | - | 0.005 | 0.051 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 14 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-14 |
| Sampled Date | Nov 23, 2024 |
| Sample Description | Air Quality |
| Location | Ban Khao Kham (GPS 47Q 0675845, 1806452) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 23/11/24 - 24/11/24 | mg/m3 | - | 0.005 | 0.025 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 23/11/24 - 24/11/24 | mg/m3 | - | 0.005 | 0.047 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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MM-N12



Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 17 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-17 |
| Sampled Date | Nov 23, 2024 |
| Sample Description | Air Quality |
| Location | Ban Tung Thong (GPS 47Q 0674666, 1805755) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 23/11/24 - 24/11/24 | mg/m ³ | - | 0.005 | 0.024 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 23/11/24 - 24/11/24 | mg/m ³ | - | 0.005 | 0.051 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

Guideline :
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Sampled By : Jirayut Kasemsuk

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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 16 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-16 |
| Sampled Date | Nov 22, 2024 |
| Sample Description | Air Quality |
| Location | Ban Tung Thong (GPS 47Q 0674666, 1805755) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 22/11/24 - 23/11/24 | mg/m ³ | - | 0.005 | 0.028 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 22/11/24 - 23/11/24 | mg/m ³ | - | 0.005 | 0.044 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

Remark :
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 19 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-19 |
| Sampled Date | Nov 22, 2024 |
| Sample Description | Air Quality |
| Location | Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 22/11/24 - 23/11/24 | mg/m3 | - | 0.005 | 0.029 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 22/11/24 - 23/11/24 | mg/m3 | - | 0.005 | 0.055 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 18 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-18 |
| Sampled Date | Nov 24, 2024 |
| Sample Description | Air Quality |
| Location | Ban Tung Thong (GPS 47Q 0674666, 1805755) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 24/11/24 - 25/11/24 | mg/m3 | - | 0.005 | 0.043 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 24/11/24 - 25/11/24 | mg/m3 | - | 0.005 | 0.098 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Analysis / Test Report

TESTING
No.0009

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 21 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-21 |
| Sampled Date | Nov 24, 2024 |
| Sample Description | Air Quality |
| Location | Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 24/11/24 - 25/11/24 | mg/m ³ | - | 0.005 | 0.026 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 24/11/24 - 25/11/24 | mg/m ³ | - | 0.005 | 0.059 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 20 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-20 |
| Sampled Date | Nov 23, 2024 |
| Sample Description | Air Quality |
| Location | Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 32.2 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 23/11/24 - 24/11/24 | mg/m ³ | - | 0.005 | 0.024 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 23/11/24 - 24/11/24 | mg/m ³ | - | 0.005 | 0.054 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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Analysis / Test Report

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 23 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-23 |
| Sampled Date | Nov 19, 2024 |
| Sample Description | Air Quality |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 19/11/24 - 20/11/24 | mg/m3 | - | 0.005 | 0.017 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 19/11/24 - 20/11/24 | mg/m3 | - | 0.005 | 0.027 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 22 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-22 |
| Sampled Date | Nov 18, 2024 |
| Sample Description | Air Quality |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|-----------------------------|---------------------|-------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM 10 | 18/11/24 - 19/11/24 | mg/m3 | - | 0.005 | 0.018 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 18/11/24 - 19/11/24 | mg/m3 | - | 0.005 | 0.024 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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Analysis / Test Report

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 25 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-25 |
| Sampled Date | Nov 18, 2024 |
| Sample Description | Air Quality |
| Location | Ban Long Du (GPS 47Q 0671962, 1799044) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 18/11/24 - 19/11/24 | mg/m ³ | - | 0.005 | 0.026 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 18/11/24 - 19/11/24 | mg/m ³ | - | 0.005 | 0.041 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 24 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-24 |
| Sampled Date | Nov 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.024 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.032 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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Sampled By : Jirayut Kasemsuk

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MM-N12



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 27 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-27 |
| Sampled Date | Nov 20, 2024 |
| Sample Description | Air Quality |
| Location | Ban Long Du (GPS 47Q 0671962, 1799044) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.025 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 20/11/24 - 21/11/24 | mg/m ³ | - | 0.005 | 0.047 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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Analysis / Test Report

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99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128650
Date Received : Nov 27, 2024
Date Reported : Dec 06, 2024
Report Number : 3161630-1

Page 26 of 27

| | |
|-------------------------|---|
| Sample Number | 24128650-26 |
| Sampled Date | Nov 19, 2024 |
| Sample Description | Air Quality |
| Location | Ban Long Du (GPS 47Q 0671962, 1799044) |
| Date Analysis Commenced | Nov 28, 2024 |
| Condition of Sample | Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag |
| Barometric Pressure | 752 mmHg |
| Atmospheric Temperature | 33.1 °C |

| Analyte | Sampled Date/time | Unit | LOD | LOQ (LOR) | Result | Guideline Limit | Method | Guideline Testing Location |
|--|---------------------|-------------------|-----|-----------|--------|-----------------|---|----------------------------|
| Air Testing | | | | | | | | |
| Particulate matter as PM ₁₀ | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.025 | 0.12 | In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |
| Total Suspended Particulate | 19/11/24 - 20/11/24 | mg/m ³ | - | 0.005 | 0.040 | 0.33 | In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling) | NEB No.24 Bangkok |

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

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

Approved by

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. ALS is not responsible for the accuracy of the results if the sample is not properly labeled, stored, or handled. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



2244-23/ EMAIL



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapkor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098087-1
Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|--|
| Sample Number | 2492627-2 |
| Parameter | Air Quality |
| Location | Ban Nong Sang (GPS 47Q 0678387, 1805733) |
| Measurement Date | Aug 25 - Aug 26, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 658239 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|--|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 52.4 | 79.4 | 45.8 |
| 01:00 PM - 02:00 PM | 47.8 | 82.3 | 42.4 |
| 02:00 PM - 03:00 PM | 50.5 | 72.8 | 42.5 |
| 03:00 PM - 04:00 PM | 50.2 | 73.6 | 44.5 |
| 04:00 PM - 05:00 PM | 51.2 | 78.8 | 46.3 |
| 05:00 PM - 06:00 PM | 51.2 | 83.1 | 44.5 |
| 06:00 PM - 07:00 PM | 49.7 | 79.5 | 45.0 |
| 07:00 PM - 08:00 PM | 53.0 | 76.8 | 50.2 |
| 08:00 PM - 09:00 PM | 51.9 | 69.6 | 50.1 |
| 09:00 PM - 10:00 PM | 51.0 | 63.8 | 49.1 |
| 10:00 PM - 11:00 PM | 51.8 | 69.2 | 49.2 |
| 11:00 PM - 12:00 AM | 53.5 | 78.5 | 47.7 |
| 12:00 AM - 01:00 AM | 48.1 | 71.2 | 44.8 |
| 01:00 AM - 02:00 AM | 46.3 | 71.4 | 44.1 |
| 02:00 AM - 03:00 AM | 46.5 | 69.8 | 44.0 |
| 03:00 AM - 04:00 AM | 49.0 | 66.1 | 44.5 |
| 04:00 AM - 05:00 AM | 52.6 | 68.8 | 46.8 |
| 05:00 AM - 06:00 AM | 52.5 | 75.6 | 46.3 |
| 06:00 AM - 07:00 AM | 53.5 | 83.0 | 45.7 |
| 07:00 AM - 08:00 AM | 53.5 | 89.7 | 44.4 |
| 08:00 AM - 09:00 AM | 51.8 | 75.0 | 45.2 |
| 09:00 AM - 10:00 AM | 49.5 | 69.9 | 43.0 |
| 10:00 AM - 11:00 AM | 51.0 | 77.8 | 42.5 |
| 11:00 AM - 12:00 PM | 49.9 | 73.2 | 43.2 |
| Leq Average 24 hrs. (dB(A)) | 51.1 | | |
| Lmax (dB(A)) | 89.7 | | 44.8 |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 57.4 | | |
| Standard (dB(A)) | 70 | 115 | |
| Reference Method : ISO1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่โครงการประกอบกิจการ โรงงาน พ.ศ. 2548 | | | |

Technical Management

Approved by

Scientist (3)

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapkor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098086-1
Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|--|
| Sample Number | 2492627-1 |
| Parameter | Air Quality |
| Location | Ban Nong Sang (GPS 47Q 0678387, 1805733) |
| Measurement Date | Aug 24 - Aug 25, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 658239 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|--|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 55.0 | 82.0 | 43.3 |
| 01:00 PM - 02:00 PM | 51.3 | 78.2 | 42.7 |
| 02:00 PM - 03:00 PM | 49.7 | 72.7 | 42.5 |
| 03:00 PM - 04:00 PM | 49.1 | 74.0 | 43.2 |
| 04:00 PM - 05:00 PM | 49.1 | 75.8 | 43.3 |
| 05:00 PM - 06:00 PM | 52.8 | 78.0 | 43.9 |
| 06:00 PM - 07:00 PM | 54.5 | 79.2 | 44.8 |
| 07:00 PM - 08:00 PM | 55.9 | 66.8 | 53.0 |
| 08:00 PM - 09:00 PM | 55.6 | 72.6 | 52.1 |
| 09:00 PM - 10:00 PM | 59.3 | 71.2 | 54.9 |
| 10:00 PM - 11:00 PM | 59.6 | 79.0 | 57.8 |
| 11:00 PM - 12:00 AM | 63.2 | 73.7 | 59.3 |
| 12:00 AM - 01:00 AM | 66.7 | 75.0 | 63.8 |
| 01:00 AM - 02:00 AM | 61.9 | 73.3 | 58.5 |
| 02:00 AM - 03:00 AM | 56.6 | 67.4 | 53.7 |
| 03:00 AM - 04:00 AM | 58.8 | 71.6 | 53.9 |
| 04:00 AM - 05:00 AM | 65.5 | 72.1 | 61.9 |
| 05:00 AM - 06:00 AM | 62.2 | 71.6 | 51.3 |
| 06:00 AM - 07:00 AM | 52.2 | 77.5 | 47.4 |
| 07:00 AM - 08:00 AM | 51.9 | 81.9 | 46.6 |
| 08:00 AM - 09:00 AM | 54.2 | 84.5 | 46.5 |
| 09:00 AM - 10:00 AM | 52.3 | 74.5 | 45.2 |
| 10:00 AM - 11:00 AM | 52.9 | 80.2 | 44.8 |
| 11:00 AM - 12:00 PM | 51.6 | 78.0 | 43.7 |
| Leq Average 24 hrs. (dB(A)) | 59.1 | | |
| Lmax (dB(A)) | 84.5 | | 46.6 |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 68.3 | 115 | |
| Standard (dB(A)) | 70 | | |
| Reference Method : ISO1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่โครงการประกอบกิจการ โรงงาน พ.ศ. 2548 | | | |

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Scientist (3)

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkror, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098089-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|---|
| Sample Number | 2492627-4 |
| Parameter | Air Quality |
| Location | Ban Khao Kham ๕ PG-47Q 0675850, 1806485 |
| Measurement Date | Aug 24 - Aug 25, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 858514 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 09:00 AM - 10:00 AM | 50.2 | 80.5 | 41.8 |
| 10:00 AM - 11:00 AM | 48.4 | 68.1 | 36.1 |
| 11:00 AM - 12:00 PM | 43.6 | 66.2 | 34.4 |
| 12:00 PM - 01:00 PM | 46.4 | 81.2 | 34.2 |
| 01:00 PM - 02:00 PM | 42.5 | 69.0 | 34.4 |
| 02:00 PM - 03:00 PM | 40.7 | 67.6 | 32.9 |
| 03:00 PM - 04:00 PM | 42.8 | 73.3 | 33.7 |
| 04:00 PM - 05:00 PM | 45.6 | 70.1 | 35.8 |
| 05:00 PM - 06:00 PM | 47.0 | 76.0 | 38.4 |
| 06:00 PM - 07:00 PM | 49.0 | 66.8 | 41.7 |
| 07:00 PM - 08:00 PM | 56.0 | 82.4 | 53.6 |
| 08:00 PM - 09:00 PM | 57.3 | 84.2 | 53.7 |
| 09:00 PM - 10:00 PM | 55.5 | 83.4 | 49.8 |
| 10:00 PM - 11:00 PM | 54.6 | 84.6 | 47.4 |
| 11:00 PM - 12:00 AM | 64.6 | 75.5 | 52.1 |
| 12:00 AM - 01:00 AM | 64.2 | 73.5 | 58.5 |
| 01:00 AM - 02:00 AM | 64.6 | 72.1 | 61.8 |
| 02:00 AM - 03:00 AM | 65.9 | 73.6 | 62.5 |
| 03:00 AM - 04:00 AM | 67.3 | 74.6 | 61.3 |
| 04:00 AM - 05:00 AM | 63.2 | 73.7 | 63.3 |
| 05:00 AM - 06:00 AM | 57.9 | 71.8 | 50.8 |
| 06:00 AM - 07:00 AM | 56.8 | 86.9 | 49.1 |
| 07:00 AM - 08:00 AM | 52.7 | 80.8 | 45.2 |
| 08:00 AM - 09:00 AM | 50.3 | 78.6 | 41.2 |
| Leq Average 24 hrs. (dB(A)) | 59.8 | | |
| Lmax (dB(A)) | 86.9 | | |
| L90 (dB(A)) | 45.2 | | |
| Ldn (dB(A)) | 69.4 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่โครงการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Scientist (S)

Approved by

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkror, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098088-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|--|
| Sample Number | 2492627-3 |
| Parameter | Air Quality |
| Location | Ban Nong Sang (GPS 47Q 0678387, 1805733) |
| Measurement Date | Aug 26 - Aug 27, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 658239 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 12:00 PM - 01:00 PM | 54.1 | 83.8 | 43.2 |
| 01:00 PM - 02:00 PM | 50.4 | 78.8 | 42.8 |
| 02:00 PM - 03:00 PM | 64.4 | 89.9 | 42.9 |
| 03:00 PM - 04:00 PM | 49.3 | 68.5 | 43.9 |
| 04:00 PM - 05:00 PM | 53.9 | 77.7 | 43.4 |
| 05:00 PM - 06:00 PM | 49.9 | 77.8 | 43.2 |
| 06:00 PM - 07:00 PM | 51.6 | 78.6 | 44.1 |
| 07:00 PM - 08:00 PM | 50.7 | 75.1 | 47.2 |
| 08:00 PM - 09:00 PM | 49.2 | 68.5 | 47.2 |
| 09:00 PM - 10:00 PM | 48.6 | 60.7 | 47.6 |
| 10:00 PM - 11:00 PM | 48.3 | 66.8 | 46.9 |
| 11:00 PM - 12:00 AM | 49.3 | 74.9 | 44.9 |
| 12:00 AM - 01:00 AM | 45.7 | 61.7 | 43.9 |
| 01:00 AM - 02:00 AM | 45.2 | 62.7 | 43.5 |
| 02:00 AM - 03:00 AM | 45.1 | 57.8 | 44.0 |
| 03:00 AM - 04:00 AM | 46.2 | 67.8 | 44.0 |
| 04:00 AM - 05:00 AM | 49.3 | 77.0 | 46.0 |
| 05:00 AM - 06:00 AM | 49.7 | 85.9 | 46.5 |
| 06:00 AM - 07:00 AM | 54.8 | 89.4 | 47.6 |
| 07:00 AM - 08:00 AM | 51.1 | 72.9 | 45.4 |
| 08:00 AM - 09:00 AM | 53.8 | 85.6 | 44.4 |
| 09:00 AM - 10:00 AM | 57.1 | 83.8 | 43.4 |
| 10:00 AM - 11:00 AM | 47.3 | 70.5 | 34.8 |
| 11:00 AM - 12:00 PM | 51.4 | 71.4 | 39.8 |
| Leq Average 24 hrs. (dB(A)) | 53.8 | | |
| Lmax (dB(A)) | 89.9 | | |
| L90 (dB(A)) | 44.0 | | |
| Ldn (dB(A)) | 57.3 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่โครงการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Scientist (3)

Approved by

Section Head



MM-M12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 309809-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page - of -

| | |
|--------------------------|---|
| Sample Number | 2492627/6 |
| Parameter | Air Quality |
| Location | Ban Khao Kham ๕ PG-47Q 0675850, -806485 |
| Measurement Date | Aug 26 1 Aug 27, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 8585- 4 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|--|-------------|--------------|-------------|
| 09:00 AM 1-0:00 AM | 42.5 | 68.7 | 33.6 |
| -0:00 AM 1--:00 AM | 47.8 | 72.7 | 33.5 |
| --:00 AM 1-2:00 PM | 4.2 | 70.7 | 33.4 |
| -2:00 PM 10-:00 PM | 46.7 | 69.6 | 34.0 |
| 0-:00 PM 102:00 PM | 40.7 | 65.0 | 33.8 |
| 02:00 PM 103:00 PM | 49.3 | 86.3 | 33.3 |
| 03:00 PM 104:00 PM | 43.5 | 70.9 | 34.2 |
| 04:00 PM 105:00 PM | 45.9 | 70.2 | 35.9 |
| 05:00 PM 106:00 PM | 53.6 | 66.4 | 40.2 |
| 06:00 PM 107:00 PM | 56.0 | 73.4 | 42.5 |
| 07:00 PM 108:00 PM | 63.8 | 83.0 | 57.7 |
| 08:00 PM 109:00 PM | 52.4 | 68.7 | 4.5 |
| 09:00 PM 1-0:00 AM | 5.8 | 7.2 | 39.6 |
| -0:00 PM 1--:00 PM | 45.8 | 64.7 | 39.3 |
| --:00 PM 1-2:00 AM | 42.5 | 66.9 | 35.8 |
| 0-:00 AM 102:00 AM | 47.4 | 79.7 | 35.2 |
| 02:00 AM 103:00 AM | 44.0 | 64.2 | 37.9 |
| 03:00 AM 104:00 AM | 43.5 | 63.2 | 35.8 |
| 04:00 AM 105:00 AM | 4.8 | 67.7 | 35.7 |
| 05:00 AM 106:00 AM | 4.4 | 60.0 | 34.7 |
| 06:00 AM 107:00 AM | 55.4 | 63.7 | 52.5 |
| 07:00 AM 108:00 AM | 53.2 | 62.3 | 48.6 |
| 08:00 AM 109:00 AM | 56.8 | 75.0 | 52.6 |
| Leq Average 24 hrs. (dB(A)) | 53.2 | | |
| Lmax (dB(A)) | 86.3 | | |
| L90 (dB(A)) | | | 35.8 |
| Ldn (dB(A)) | | | |
| Standard (dB(A)) | 70 | -- 5 | |
| Reference Method : ISO- 9961- and - 99612 | | | |
| Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 5 ส.ศ. 2540) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป | | | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | | | |
| พ.ร.บ. พ.ศ. 2548 | | | |

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Life Sciences

224423/ EMAIL

S:Reports All Noise ppt (7:47PM)

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098090-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|---|
| Sample Number | 2492627-Q |
| Parameter | Air Quality |
| Location | San Khao Kham (GP5 47B 0670800, 1806480Q) |
| Measurement Date | Aug 2Q- Aug 26, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 8080Q4 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|---|-------------|--------------|-------------|
| 09:00 AM - 10:00 AM | 46.9 | 70.4 | 37.7 |
| 10:00 AM - 11:00 AM | 40.4 | 69.9 | 37.1 |
| 11:00 AM - 12:00 PM | 41.3 | 64.1 | 34.2 |
| 12:00 PM - 01:00 PM | 42.4 | 63.0 | 34.7 |
| 01:00 PM - 02:00 PM | 44.4 | 70.1 | 30.0 |
| 02:00 PM - 03:00 PM | 43.2 | 70.0 | 33.8 |
| 03:00 PM - 04:00 PM | 47.7 | 73.3 | 34.6 |
| 04:00 PM - 05:00 PM | 73.7 | 73.7 | 30.3 |
| 05:00 PM - 06:00 PM | 43.8 | 73.9 | 30.0 |
| 06:00 PM - 07:00 PM | 49.0 | 71.0 | 39.4 |
| 07:00 PM - 08:00 PM | 00.9 | 77.3 | 02.8 |
| 08:00 PM - 09:00 PM | 07.0 | 77.9 | 04.7 |
| 09:00 PM - 10:00 PM | 04.8 | 84.0 | 01.0 |
| 10:00 PM - 11:00 PM | 02.0 | 81.7 | 46.0 |
| 11:00 PM - 12:00 AM | 02.2 | 82.3 | 47.7 |
| 12:00 AM - 01:00 AM | 03.4 | 83.3 | 47.7 |
| 01:00 AM - 02:00 AM | 07.1 | 66.6 | 01.0 |
| 02:00 AM - 03:00 AM | 60.4 | 68.3 | 05.6 |
| 03:00 AM - 04:00 AM | 06.9 | 68.9 | 49.0 |
| 04:00 AM - 05:00 AM | 00.6 | 66.4 | 47.9 |
| 05:00 AM - 06:00 AM | 02.1 | 68.9 | 49.9 |
| 06:00 AM - 07:00 AM | 02.9 | 73.8 | 48.9 |
| 07:00 AM - 08:00 AM | 48.2 | 63.3 | 40.3 |
| 08:00 AM - 09:00 AM | 40.7 | 70.7 | 30.1 |
| Leq Average 24 hrs. (dB(A)) | 03.0 | | |
| Lmax (dB(A)) | 84.0 | | |
| L90 (dB(A)) | | | 40.3 |
| Ldn (dB(A)) | | | |
| Standard (dB(A)) | 70 | 110 | |
| Reference Method : ISO1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 1Q(พ.ศ. 2Q00) ซึ่งกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป | | | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | | | |
| พ.ร.บ. พ.ศ. 2Q08 | | | |

Technical Management

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Life Sciences

2244-23/ EMAIL

S:Reports All Noise ppt (7:47PM)

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



MM-M12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098093-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|---|
| Sample Number | 2492627-8 |
| Parameter | Air Quality |
| Location | Ban Tung Thong ๕ PG 47Q 0674687, 1805768) |
| Measurement Date | Aug 25 - Aug 26, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 1122547 |

| Time | Leq SIBSA)) | Lmax SIBSA)) | L90 SIBSA)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 50.3 | 78.0 | 41.9 |
| 11:00 AM - 12:00 PM | 43.7 | 68.9 | 40.8 |
| 12:00 PM - 01:00 PM | 43.9 | 61.2 | 40.7 |
| 01:00 PM - 02:00 PM | 46.6 | 68.6 | 40.9 |
| 02:00 PM - 03:00 PM | 45.7 | 71.2 | 40.8 |
| 03:00 PM - 04:00 PM | 45.9 | 71.6 | 41.0 |
| 04:00 PM - 05:00 PM | 45.6 | 64.0 | 41.0 |
| 05:00 PM - 06:00 PM | 48.3 | 70.9 | 42.4 |
| 06:00 PM - 07:00 PM | 51.8 | 83.7 | 43.0 |
| 07:00 PM - 08:00 PM | 60.3 | 91.5 | 51.9 |
| 08:00 PM - 09:00 PM | 54.0 | 65.3 | 52.2 |
| 09:00 PM - 10:00 PM | 52.4 | 69.1 | 50.5 |
| 10:00 PM - 11:00 PM | 52.1 | 71.8 | 50.0 |
| 11:00 PM - 12:00 AM | 52.9 | 68.0 | 51.4 |
| 12:00 AM - 01:00 AM | 51.8 | 62.3 | 50.0 |
| 01:00 AM - 02:00 AM | 48.9 | 61.4 | 45.8 |
| 02:00 AM - 03:00 AM | 46.1 | 54.7 | 44.1 |
| 03:00 AM - 04:00 AM | 48.2 | 76.5 | 44.3 |
| 04:00 AM - 05:00 AM | 68.9 | 68.9 | 45.4 |
| 05:00 AM - 06:00 AM | 53.2 | 63.1 | 49.9 |
| 06:00 AM - 07:00 AM | 50.6 | 76.1 | 47.1 |
| 07:00 AM - 08:00 AM | 48.4 | 69.0 | 43.5 |
| 08:00 AM - 09:00 AM | 47.7 | 67.2 | 42.5 |
| 09:00 AM - 10:00 AM | 47.8 | 70.4 | 42.9 |
| Leq Average 24 hrs. SIBSA)) | 51.4 | | |
| Lmax SIBSA)) | 91.5 | | |
| L90 SIBSA)) | | 43.5 | |
| Ldn SIBSA)) | 57.3 | | |
| Standard SIBSA)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 พ.ศ. 2540) ซึ่งกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management **Approved by** **Section Head**
Client (S3)

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098092-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|---|
| Sample Number | 2492627-7 |
| Parameter | Air Quality |
| Location | Ban Tung Thong ๕ PG 47Q 0674687, 1805768) |
| Measurement Date | Aug 24 - Aug 25, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 1122547 |

| Time | Leq SIBSA)) | Lmax SIBSA)) | L90 SIBSA)) |
|-----------------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 57.1 | 80.5 | 51.1 |
| 11:00 AM - 12:00 PM | 48.5 | 70.6 | 42.5 |
| 12:00 PM - 01:00 PM | 46.5 | 71.6 | 42.3 |
| 01:00 PM - 02:00 PM | 47.0 | 75.2 | 41.2 |
| 02:00 PM - 03:00 PM | 45.3 | 66.5 | 41.5 |
| 03:00 PM - 04:00 PM | 46.7 | 73.2 | 42.4 |
| 04:00 PM - 05:00 PM | 51.3 | 81.8 | 43.0 |
| 05:00 PM - 06:00 PM | 49.8 | 80.1 | 44.3 |
| 06:00 PM - 07:00 PM | 51.3 | 73.3 | 46.1 |
| 07:00 PM - 08:00 PM | 55.9 | 77.9 | 53.2 |
| 08:00 PM - 09:00 PM | 57.0 | 83.6 | 54.8 |
| 09:00 PM - 10:00 PM | 55.9 | 73.7 | 52.6 |
| 10:00 PM - 11:00 PM | 54.1 | 77.9 | 50.3 |
| 11:00 PM - 12:00 AM | 60.3 | 87.1 | 51.9 |
| 12:00 AM - 01:00 AM | 63.9 | 82.3 | 56.5 |
| 01:00 AM - 02:00 AM | 62.3 | 81.7 | 59.6 |
| 02:00 AM - 03:00 AM | 59.7 | 74.7 | 57.6 |
| 03:00 AM - 04:00 AM | 60.7 | 72.8 | 58.9 |
| 04:00 AM - 05:00 AM | 59.4 | 73.1 | 57.3 |
| 05:00 AM - 06:00 AM | 57.1 | 63.7 | 54.5 |
| 06:00 AM - 07:00 AM | 52.8 | 69.4 | 50.4 |
| 07:00 AM - 08:00 AM | 51.7 | 74.3 | 46.5 |
| 08:00 AM - 09:00 AM | 50.8 | 72.6 | 44.8 |
| 09:00 AM - 10:00 AM | 48.1 | 70.3 | 43.4 |
| Leq Average 24 hrs. SIBSA)) | 57.0 | | |
| Lmax SIBSA)) | 87.1 | | |
| L90 SIBSA)) | | 50.3 | |
| Ldn SIBSA)) | 65.9 | | |
| Standard SIBSA)) | 70 | 115 | |

Reference Method : ISO 1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 พ.ศ. 2540) ซึ่งกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management **Approved by** **Section Head**
Client (S3)

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochuetuk, Amphur Thaplor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report f umber: 309809-IN

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page NoQN

| | |
|--------------------------|---|
| Sample Number | 2492627/NO |
| Parameter | Air Quality |
| Location | San Mai Klong Ta Lud (GPS 47B 0676-88, N807N63) |
| Measurement Date | Aug 24 1 Aug 2-, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial f o, N022262 |

| Time | Leq (d5(A)) | Lmax (d5(A)) | L90 (d5(A)) |
|---------------------|-------------|--------------|-------------|
| NK00 AM 1:02:00 PM | 46.8 | 70.7 | 42.8 |
| NK00 PM 1:0N00 PM | 48.6 | 7N- | 42.6 |
| 0N00 PM 1:02:00 PM | -2.9 | 78.3 | 42.4 |
| 02:00 PM 1:03:00 PM | 46.4 | 74.7 | 42.4 |
| 03:00 PM 1:04:00 PM | 69.3 | 69.3 | 42.9 |
| 04:00 PM 1:05:00 PM | 76.7 | 76.7 | 44.6 |
| 0-:00 PM 1:06:00 PM | NK3 | 69.9 | 4.6 |
| 06:00 PM 1:07:00 PM | -2.3 | 68.0 | 47.3 |
| 07:00 PM 1:08:00 PM | --.9 | 79.0 | -3.2 |
| 08:00 PM 1:09:00 PM | -3.8 | 73.2 | -0- |
| 09:00 PM 1:10:00 PM | 49.6 | 7N3 | 46.6 |
| NK00 PM 1:1N00 PM | 46.2 | 73.2 | 46- |
| NK00 PM 1:12:00 AM | 66.2 | 87.3 | -N3 |
| NK00 AM 1:0N00 AM | -7.7 | 78.8 | -3.8 |
| 02:00 AM 1:02:00 AM | --.4 | 80.7 | -2.6 |
| 03:00 AM 1:03:00 AM | -4.9 | 68.2 | -N4 |
| 04:00 AM 1:04:00 AM | -7.4 | 72.8 | -2.0 |
| 0-:00 AM 1:05:00 AM | --.0 | 77.7 | 49.6 |
| 06:00 AM 1:06:00 AM | -0.2 | 7-7 | 46.N |
| 07:00 AM 1:07:00 AM | 44.9 | 79.2 | 44.3 |
| 08:00 AM 1:08:00 AM | 48.7 | 74- | 4N6 |
| 09:00 AM 1:09:00 AM | 46.6 | 7-7 | 4N2 |
| 09:00 AM 1:10:00 AM | 46.7 | 77.7 | 4N.N |
| NK00 AM 1:1N00 AM | 48.8 | 80.3 | 40.6 |

Leq Average 24 hrs. (d5(A)) --.6

| | |
|--------------|------|
| Lmax (d5(A)) | 87.3 |
| L90 (d5(A)) | 4.6 |
| Ldn (d5(A)) | |

Standard (d5(A)) 70

Reference Method : ISO1996-IN and N99612

Standard N. ประกาศนียบัตรการสอบเทียบมาตรฐานฉบับที่ N- (พ.ศ. 2-40) ซึ่งกำหนดการสอบเทียบเสียงโดยทั่วไป

2. ประกาศนียบัตรการสอบเทียบมาตรฐาน ประกาศนียบัตรการสอบเทียบมาตรฐาน และระดับเสียงที่ได้จากการประเมินการ

รายงาน พ.ศ. 2-48

Technical Management

Scientist (3)

Section Head

Approved by

Page 1 of 1



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochuetuk, Amphur Thaplor, Phichit Thailand 66230
P/O : 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098094-1

Project Name : Air Test
Project Location :

Lot ID: 2492627

Page 1 of 1

| | |
|--------------------------|--|
| Sample Number | 2492627-9 |
| Parameter | Air Quality |
| Location | Ban Tung Thong 5 PG 47Q 0674687, 1805768 |
| Measurement Date | Aug 26 - Aug 27, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 1122547 |

| Time | Leq SIBSA)) | Lmax SIBSA)) | L90 SIBSA)) |
|---------------------|-------------|--------------|-------------|
| 10:00 AM - 11:00 AM | 47.2 | 70.4 | 43.2 |
| 11:00 AM - 12:00 PM | 45.4 | 64.5 | 42.0 |
| 12:00 PM - 01:00 PM | 45.0 | 65.9 | 41.2 |
| 01:00 PM - 02:00 PM | 45.2 | 70.2 | 40.4 |
| 02:00 PM - 03:00 PM | 47.3 | 70.3 | 41.7 |
| 03:00 PM - 04:00 PM | 46.4 | 71.4 | 40.6 |
| 04:00 PM - 05:00 PM | 46.2 | 69.9 | 41.4 |
| 05:00 PM - 06:00 PM | 47.1 | 68.6 | 41.7 |
| 06:00 PM - 07:00 PM | 51.4 | 77.4 | 43.2 |
| 07:00 PM - 08:00 PM | 57.2 | 92.8 | 46.4 |
| 08:00 PM - 09:00 PM | 50.8 | 73.2 | 49.1 |
| 09:00 PM - 10:00 PM | 50.6 | 73.3 | 47.7 |
| 10:00 PM - 11:00 PM | 49.9 | 71.8 | 46.7 |
| 11:00 PM - 12:00 AM | 49.3 | 71.2 | 46.4 |
| 12:00 AM - 01:00 AM | 49.6 | 78.7 | 46.9 |
| 01:00 AM - 02:00 AM | 48.1 | 64.3 | 45.7 |
| 02:00 AM - 03:00 AM | 44.9 | 51.8 | 43.2 |
| 03:00 AM - 04:00 AM | 45.8 | 68.5 | 43.7 |
| 04:00 AM - 05:00 AM | 49.5 | 71.4 | 45.7 |
| 05:00 AM - 06:00 AM | 62.5 | 86.4 | 48.5 |
| 06:00 AM - 07:00 AM | 51.0 | 79.1 | 46.8 |
| 07:00 AM - 08:00 AM | 48.7 | 66.3 | 45.1 |
| 08:00 AM - 09:00 AM | 49.6 | 73.4 | 44.5 |
| 09:00 AM - 10:00 AM | 50.3 | 76.2 | 39.1 |

Leq Average 24 hrs. SIBSA)) 52.1

Lmax SIBSA)) 92.8

L90 SIBSA)) 43.7

Ldn SIBSA)) 115

Standard SIBSA)) 70

Reference Method : ISO1996-1 and 1996-2

Standard 1. ประกาศนียบัตรการสอบเทียบมาตรฐานฉบับที่ 15 ส.ศ. 2540) ซึ่งกำหนดการสอบเทียบเสียงโดยทั่วไป

2. ประกาศนียบัตรการสอบเทียบมาตรฐาน ประกาศนียบัตรการสอบเทียบมาตรฐาน และระดับเสียงที่ได้จากการประเมินการ

รายงาน พ.ศ. 2548

Technical Management

Scientist (3)

Section Head

Approved by

Page 1 of 1



MM-M12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkror, Phichit Thailand 66230
P/O : 2492627
Project Name : Air Test
Project Location :

Lot ID: 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098097-1

Page 1 of 1

| | |
|--------------------------|---|
| Sample Number | 2492627-12 |
| Parameter | Air Quality |
| Location | Ban Mai Klong Ta Lud 5/ PG 47Q 0676588, 1807193 |
| Measurement Date | Aug 26 - Aug 27, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 1022262 |

| Time | Leq SIBSA)) | Lmax SIBSA)) | L90 SIBSA)) |
|--|-------------|--------------|-------------|
| 11:00 AM - 12:00 PM | 46.3 | 76.0 | 41.8 |
| 12:00 PM - 01:00 PM | 47.5 | 72.6 | 42.1 |
| 01:00 PM - 02:00 PM | 47.8 | 75.0 | 42.4 |
| 02:00 PM - 03:00 PM | 54.2 | 82.9 | 42.4 |
| 03:00 PM - 04:00 PM | 46.1 | 64.5 | 42.7 |
| 04:00 PM - 05:00 PM | 49.0 | 80.4 | 43.0 |
| 05:00 PM - 06:00 PM | 49.9 | 80.4 | 44.0 |
| 06:00 PM - 07:00 PM | 67.9 | 84.3 | 44.0 |
| 07:00 PM - 08:00 PM | 54.8 | 74.3 | 49.0 |
| 08:00 PM - 09:00 PM | 55.6 | 65.3 | 53.9 |
| 09:00 PM - 10:00 PM | 54.0 | 69.2 | 52.6 |
| 10:00 PM - 11:00 PM | 48.8 | 55.7 | 49.9 |
| 11:00 PM - 12:00 AM | 48.5 | 66.0 | 46.6 |
| 12:00 AM - 01:00 AM | 53.2 | 63.6 | 49.7 |
| 01:00 AM - 02:00 AM | 55.1 | 62.0 | 52.1 |
| 02:00 AM - 03:00 AM | 52.0 | 72.8 | 44.5 |
| 03:00 AM - 04:00 AM | 46.2 | 61.2 | 42.5 |
| 04:00 AM - 05:00 AM | 50.5 | 76.8 | 43.1 |
| 05:00 AM - 06:00 AM | 52.3 | 69.2 | 49.2 |
| 06:00 AM - 07:00 AM | 50.4 | 70.4 | 46.2 |
| 07:00 AM - 08:00 AM | 53.4 | 75.0 | 40.2 |
| 08:00 AM - 09:00 AM | 46.0 | 38.7 | 39.0 |
| 09:00 AM - 10:00 AM | 45.7 | 71.7 | 39.0 |
| 10:00 AM - 11:00 AM | 43.7 | 65.7 | 39.5 |
| Leq Average 24 hrs. SIBSA)) | 51.4 | | |
| Lmax SIBSA)) | 82.9 | | 43.1 |
| L90 SIBSA)) | | | |
| Ldn SIBSA)) | 57.9 | 115 | |
| Standard SIBSA)) | 70 | | |
| Reference Method : ISO 1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 พ.ศ. 2540) ซึ่งกำหนดมาตรฐานเสียงสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548 | | | |

Technical Management Client(S) Approved by Section Head

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkror, Phichit Thailand 66230
P/O : 2492627
Project Name : Air Test
Project Location :

Lot ID: 2492627
Date Received : Aug 29, 2024
Date Reported : Aug 30, 2024
Report Number: 3098096-1

Page 1 of 1

| | |
|--------------------------|---|
| Sample Number | 2492627-11 |
| Parameter | Air Quality |
| Location | Ban Mai Klong Ta Lud 5/ PG 47Q 0676588, 1807193 |
| Measurement Date | Aug 25 - Aug 26, 2024 |
| Measurement by | Thanit Janjop |
| Sound Level meter | Serial No. 1022262 |

| Time | Leq SIBSA)) | Lmax SIBSA)) | L90 SIBSA)) |
|--|-------------|--------------|-------------|
| 11:00 AM - 12:00 PM | 50.9 | 80.6 | 42.1 |
| 12:00 PM - 01:00 PM | 47.4 | 68.7 | 42.6 |
| 01:00 PM - 02:00 PM | 47.1 | 72.0 | 42.8 |
| 02:00 PM - 03:00 PM | 49.0 | 70.9 | 43.1 |
| 03:00 PM - 04:00 PM | 48.3 | 75.6 | 43.7 |
| 04:00 PM - 05:00 PM | 49.9 | 72.3 | 44.7 |
| 05:00 PM - 06:00 PM | 53.3 | 79.1 | 45.9 |
| 06:00 PM - 07:00 PM | 54.1 | 77.9 | 48.8 |
| 07:00 PM - 08:00 PM | 54.4 | 74.3 | 53.1 |
| 08:00 PM - 09:00 PM | 54.5 | 76.6 | 51.2 |
| 09:00 PM - 10:00 PM | 52.7 | 87.0 | 49.2 |
| 10:00 PM - 11:00 PM | 51.0 | 74.2 | 47.7 |
| 11:00 PM - 12:00 AM | 50.6 | 69.2 | 48.2 |
| 12:00 AM - 01:00 AM | 52.4 | 71.1 | 46.5 |
| 01:00 AM - 02:00 AM | 54.2 | 64.3 | 51.2 |
| 02:00 AM - 03:00 AM | 53.1 | 63.8 | 47.2 |
| 03:00 AM - 04:00 AM | 50.8 | 79.1 | 44.5 |
| 04:00 AM - 05:00 AM | 50.5 | 73.0 | 44.9 |
| 05:00 AM - 06:00 AM | 53.7 | 66.1 | 50.3 |
| 06:00 AM - 07:00 AM | 54.1 | 75.7 | 48.5 |
| 07:00 AM - 08:00 AM | 55.6 | 87.2 | 41.0 |
| 08:00 AM - 09:00 AM | 47.3 | 70.6 | 41.0 |
| 09:00 AM - 10:00 AM | 44.2 | 71.0 | 41.2 |
| 10:00 AM - 11:00 AM | 47.3 | 74.2 | 41.7 |
| Leq Average 24 hrs. SIBSA)) | 52.0 | | |
| Lmax SIBSA)) | 87.2 | | 44.9 |
| L90 SIBSA)) | | | |
| Ldn SIBSA)) | 58.8 | 115 | |
| Standard SIBSA)) | 70 | | |
| Reference Method : ISO 1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 พ.ศ. 2540) ซึ่งกำหนดมาตรฐานเสียงสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548 | | | |

Technical Management Client(S) Approved by Section Head

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180331-1

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 24128652-2 |
| Parameter | Air Quality |
| Location | Ban Dong Long (GPS 47Q 0678205, 1802158) |
| Measurement Date | Nov 19 - Nov 20, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 1022263 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|--|-------------|--------------|-------------|
| 03:00 PM - 04:00 PM | 47.8 | 78.7 | 32.5 |
| 04:00 PM - 05:00 PM | 40.8 | 65.0 | 33.8 |
| 05:00 PM - 06:00 PM | 43.8 | 64.2 | 36.7 |
| 06:00 PM - 07:00 PM | 44.1 | 72.8 | 33.4 |
| 07:00 PM - 08:00 PM | 42.9 | 71.4 | 34.3 |
| 08:00 PM - 09:00 PM | 44.6 | 66.7 | 36.6 |
| 09:00 PM - 10:00 PM | 49.8 | 69.7 | 46.8 |
| 10:00 PM - 11:00 PM | 49.3 | 69.0 | 45.1 |
| 11:00 PM - 12:00 AM | 46.7 | 73.6 | 42.0 |
| 12:00 AM - 01:00 AM | 42.6 | 60.4 | 40.1 |
| 01:00 AM - 02:00 AM | 41.9 | 56.6 | 40.1 |
| 02:00 AM - 03:00 AM | 41.2 | 61.4 | 38.1 |
| 03:00 AM - 04:00 AM | 40.8 | 63.2 | 37.3 |
| 04:00 AM - 05:00 AM | 40.9 | 56.9 | 38.3 |
| 05:00 AM - 06:00 AM | 41.1 | 54.9 | 38.2 |
| 06:00 AM - 07:00 AM | 42.6 | 55.5 | 38.9 |
| 07:00 AM - 08:00 AM | 44.5 | 56.3 | 39.8 |
| 08:00 AM - 09:00 AM | 49.1 | 69.5 | 41.7 |
| 09:00 AM - 10:00 AM | 46.1 | 74.1 | 38.5 |
| 10:00 AM - 11:00 AM | 43.0 | 61.6 | 35.5 |
| 11:00 AM - 12:00 PM | 43.0 | 69.1 | 35.2 |
| 12:00 PM - 01:00 PM | 41.5 | 70.1 | 34.4 |
| 01:00 PM - 02:00 PM | 42.1 | 56.8 | 37.9 |
| 02:00 PM - 03:00 PM | 42.3 | 65.5 | 36.8 |
| Leq Average 24 hrs. (dB(A)) | 44.9 | | |
| Lmax (dB(A)) | 78.7 | | 38.1 |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 50.7 | | |
| Standard (dB(A)) | 70 | 115 | |
| Reference Method : ISO1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป | | | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | | | |
| โรงงาน พ.ศ. 2548 | | | |

Technical Management Approved by Scientist (4) Section Head

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180330-1

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 24128652-1 |
| Parameter | Air Quality |
| Location | Ban Dong Long (GPS 47Q 0678205, 1802158) |
| Measurement Date | Nov 18 - Nov 19, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 1022263 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|--|-------------|--------------|-------------|
| 03:00 PM - 04:00 PM | 54.8 | 91.2 | 35.5 |
| 04:00 PM - 05:00 PM | 43.0 | 71.5 | 34.9 |
| 05:00 PM - 06:00 PM | 54.2 | 80.8 | 39.3 |
| 06:00 PM - 07:00 PM | 55.2 | 82.0 | 45.3 |
| 07:00 PM - 08:00 PM | 47.1 | 65.1 | 44.5 |
| 08:00 PM - 09:00 PM | 45.5 | 57.6 | 43.7 |
| 09:00 PM - 10:00 PM | 44.4 | 62.3 | 40.5 |
| 10:00 PM - 11:00 PM | 43.9 | 68.0 | 40.8 |
| 11:00 PM - 12:00 AM | 42.8 | 59.2 | 40.9 |
| 12:00 AM - 01:00 AM | 43.1 | 71.7 | 40.1 |
| 01:00 AM - 02:00 AM | 41.1 | 56.7 | 38.2 |
| 02:00 AM - 03:00 AM | 41.0 | 56.8 | 36.1 |
| 03:00 AM - 04:00 AM | 42.4 | 63.7 | 36.8 |
| 04:00 AM - 05:00 AM | 44.8 | 68.7 | 40.5 |
| 05:00 AM - 06:00 AM | 46.2 | 68.6 | 41.2 |
| 06:00 AM - 07:00 AM | 45.6 | 73.2 | 38.8 |
| 07:00 AM - 08:00 AM | 42.6 | 63.4 | 36.3 |
| 08:00 AM - 09:00 AM | 43.9 | 65.6 | 34.7 |
| 09:00 AM - 10:00 AM | 42.8 | 65.2 | 34.0 |
| 10:00 AM - 11:00 AM | 43.5 | 77.7 | 33.9 |
| 11:00 AM - 12:00 PM | 46.8 | 81.8 | 32.9 |
| 12:00 PM - 01:00 PM | 47.9 | 82.1 | 32.1 |
| 01:00 PM - 02:00 PM | 45.5 | 57.6 | 43.7 |
| 02:00 PM - 03:00 PM | 44.4 | 62.3 | 40.5 |
| Leq Average 24 hrs. (dB(A)) | 48.0 | | |
| Lmax (dB(A)) | | 91.2 | 38.8 |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 51.6 | | |
| Standard (dB(A)) | 70 | 115 | |
| Reference Method : ISO1996-1 and 1996-2 | | | |
| Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป | | | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | | | |
| โรงงาน พ.ศ. 2548 | | | |

Technical Management Approved by Scientist (4) Section Head

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180333-1

Page 1 of 1

| | | | | |
|---------------------|--|--|--------------|-------------|
| Sample Number | | 24128652-4 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Nong Ra Man (GPS 47Q 0674684, 1802590) | | |
| Measurement Date | | Nov 18 - Nov 19, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 710644 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 01:00 PM - 02:00 PM | | 46.8 | 68.9 | 36.8 |
| 02:00 PM - 03:00 PM | | 47.4 | 69.7 | 35.4 |
| 03:00 PM - 04:00 PM | | 49.7 | 71.5 | 34.8 |
| 04:00 PM - 05:00 PM | | 50.2 | 70.2 | 35.1 |
| 05:00 PM - 06:00 PM | | 50.5 | 68.7 | 39.5 |
| 06:00 PM - 07:00 PM | | 58.5 | 85.3 | 46.8 |
| 07:00 PM - 08:00 PM | | 49.5 | 66.9 | 46.3 |
| 08:00 PM - 09:00 PM | | 47.7 | 68.5 | 43.6 |
| 09:00 PM - 10:00 PM | | 46.3 | 62.8 | 43.3 |
| 10:00 PM - 11:00 PM | | 46.6 | 71.6 | 39.3 |
| 11:00 PM - 12:00 AM | | 44.1 | 65.1 | 37.7 |
| 12:00 AM - 01:00 AM | | 43.8 | 68.4 | 37.4 |
| 01:00 AM - 02:00 AM | | 40.2 | 58.8 | 37.1 |
| 02:00 AM - 03:00 AM | | 49.3 | 70.2 | 35.0 |
| 03:00 AM - 04:00 AM | | 40.9 | 61.0 | 35.3 |
| 04:00 AM - 05:00 AM | | 43.5 | 63.4 | 36.5 |
| 05:00 AM - 06:00 AM | | 47.4 | 65.9 | 38.0 |
| 06:00 AM - 07:00 AM | | 52.0 | 69.8 | 42.8 |
| 07:00 AM - 08:00 AM | | 50.5 | 70.7 | 39.4 |
| 08:00 AM - 09:00 AM | | 47.7 | 70.0 | 37.3 |
| 09:00 AM - 10:00 AM | | 51.0 | 74.0 | 39.5 |
| 10:00 AM - 11:00 AM | | 50.9 | 74.8 | 38.8 |
| 11:00 AM - 12:00 PM | | 50.5 | 68.7 | 39.5 |
| 12:00 PM - 01:00 PM | | 51.0 | 70.3 | 38.3 |

Technical Management _____ Approved by _____
Scientist (4) _____ Section Head _____

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180332-1

Page 1 of 1

| | | | | |
|---------------------|--|--|--------------|-------------|
| Sample Number | | 24128652-3 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Dong Long (GPS 47Q 0678205, 1802158) | | |
| Measurement Date | | Nov 20 - Nov 21, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022663 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 03:00 PM - 04:00 PM | | 42.9 | 71.4 | 34.3 |
| 04:00 PM - 05:00 PM | | 42.6 | 60.4 | 40.1 |
| 05:00 PM - 06:00 PM | | 41.9 | 56.6 | 40.1 |
| 06:00 PM - 07:00 PM | | 40.6 | 71.3 | 31.8 |
| 07:00 PM - 08:00 PM | | 41.4 | 61.4 | 33.1 |
| 08:00 PM - 09:00 PM | | 46.9 | 74.6 | 33.4 |
| 09:00 PM - 10:00 PM | | 45.2 | 59.3 | 36.8 |
| 10:00 PM - 11:00 PM | | 49.5 | 75.3 | 47.2 |
| 11:00 PM - 12:00 AM | | 47.5 | 59.2 | 45.9 |
| 12:00 AM - 01:00 AM | | 46.3 | 67.9 | 44.7 |
| 01:00 AM - 02:00 AM | | 45.7 | 68.2 | 43.5 |
| 02:00 AM - 03:00 AM | | 43.3 | 50.4 | 39.7 |
| 03:00 AM - 04:00 AM | | 41.4 | 57.1 | 39.2 |
| 04:00 AM - 05:00 AM | | 42.1 | 67.1 | 37.0 |
| 05:00 AM - 06:00 AM | | 39.1 | 52.5 | 37.1 |
| 06:00 AM - 07:00 AM | | 42.1 | 56.8 | 37.9 |
| 07:00 AM - 08:00 AM | | 42.3 | 65.5 | 38.8 |
| 08:00 AM - 09:00 AM | | 45.4 | 71.7 | 40.8 |
| 09:00 AM - 10:00 AM | | 49.4 | 71.0 | 41.3 |
| 10:00 AM - 11:00 AM | | 46.9 | 73.8 | 38.9 |
| 11:00 AM - 12:00 PM | | 48.6 | 71.7 | 35.4 |
| 12:00 PM - 01:00 PM | | 45.9 | 72.7 | 35.5 |
| 01:00 PM - 02:00 PM | | 45.1 | 66.6 | 36.3 |
| 02:00 PM - 03:00 PM | | 45.6 | 76.2 | 35.7 |

Technical Management _____ Approved by _____
Scientist (4) _____ Section Head _____

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180335-1

Page 1 of 1

| Sample Number | 24128652-6 |
|---|--|
| Parameter | Air Quality |
| Location | Ban Nong Ra Man (GPS 47Q 0674684, 1802590) |
| Measurement Date | Nov 20 - Nov 21, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 710644 |
| Time | |
| 01:00 PM - 02:00 PM | 46.7 |
| 02:00 PM - 03:00 PM | 48.8 |
| 03:00 PM - 04:00 PM | 49.3 |
| 04:00 PM - 05:00 PM | 47.4 |
| 05:00 PM - 06:00 PM | 48.4 |
| 06:00 PM - 07:00 PM | 48.7 |
| 07:00 PM - 08:00 PM | 51.0 |
| 08:00 PM - 09:00 PM | 50.8 |
| 09:00 PM - 10:00 PM | 50.3 |
| 10:00 PM - 11:00 PM | 49.8 |
| 11:00 PM - 12:00 AM | 49.9 |
| 12:00 AM - 01:00 AM | 46.6 |
| 01:00 AM - 02:00 AM | 47.1 |
| 02:00 AM - 03:00 AM | 47.7 |
| 03:00 AM - 04:00 AM | 45.1 |
| 04:00 AM - 05:00 AM | 45.5 |
| 05:00 AM - 06:00 AM | 42.6 |
| 06:00 AM - 07:00 AM | 45.9 |
| 07:00 AM - 08:00 AM | 47.8 |
| 08:00 AM - 09:00 AM | 49.9 |
| 09:00 AM - 10:00 AM | 53.5 |
| 10:00 AM - 11:00 AM | 51.3 |
| 11:00 AM - 12:00 PM | 54.6 |
| 12:00 PM - 01:00 PM | 51.9 |
| Leq Average 24 hrs. (dB(A)) | |
| Lmax (dB(A)) | 49.6 |
| L90 (dB(A)) | 40.3 |
| Ldn (dB(A)) | 54.3 |
| Standard (dB(A)) | 70 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548 | |

Technical Management Approved by Scientist (4) Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180334-1

Page 1 of 1

| Sample Number | 24128652-5 |
|---|--|
| Parameter | Air Quality |
| Location | Ban Nong Ra Man (GPS 47Q 0674684, 1802590) |
| Measurement Date | Nov 19 - Nov 20, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 710644 |
| Time | |
| 01:00 PM - 02:00 PM | 50.9 |
| 02:00 PM - 03:00 PM | 49.3 |
| 03:00 PM - 04:00 PM | 47.2 |
| 04:00 PM - 05:00 PM | 49.1 |
| 05:00 PM - 06:00 PM | 50.3 |
| 06:00 PM - 07:00 PM | 47.5 |
| 07:00 PM - 08:00 PM | 47.7 |
| 08:00 PM - 09:00 PM | 50.6 |
| 09:00 PM - 10:00 PM | 51.2 |
| 10:00 PM - 11:00 PM | 51.6 |
| 11:00 PM - 12:00 AM | 50.3 |
| 12:00 AM - 01:00 AM | 48.2 |
| 01:00 AM - 02:00 AM | 48.1 |
| 02:00 AM - 03:00 AM | 53.4 |
| 03:00 AM - 04:00 AM | 44.6 |
| 04:00 AM - 05:00 AM | 43.6 |
| 05:00 AM - 06:00 AM | 41.0 |
| 06:00 AM - 07:00 AM | 42.8 |
| 07:00 AM - 08:00 AM | 42.7 |
| 08:00 AM - 09:00 AM | 45.9 |
| 09:00 AM - 10:00 AM | 52.3 |
| 10:00 AM - 11:00 AM | 56.6 |
| 11:00 AM - 12:00 PM | 50.9 |
| 12:00 PM - 01:00 PM | 49.1 |
| Leq Average 24 hrs. (dB(A)) | |
| Lmax (dB(A)) | 50.0 |
| L90 (dB(A)) | 38.8 |
| Ldn (dB(A)) | 55.5 |
| Standard (dB(A)) | 70 |
| Reference Method : ISO1996-1 and 1996-2 | |
| Standard : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548 | |

Technical Management Approved by Scientist (4) Section Head



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180337-1

Page 1 of 1

| Sample Number | 24128652-8 |
|--|--|
| Parameter | Air Quality |
| Location | Ban Nong (ang ๕P(47Q 0678387, 1805733) |
| Measurement Date | Nov 23 - Nov 24, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | (erial No. 710644 |
| Time | |
| 12:00 PM - 01:00 PM | 52.9 |
| 01:00 PM - 02:00 PM | 48.9 |
| 02:00 PM - 03:00 PM | 56.5 |
| 03:00 PM - 04:00 PM | 54.5 |
| 04:00 PM - 05:00 PM | 52.1 |
| 05:00 PM - 06:00 PM | 49.7 |
| 06:00 PM - 07:00 PM | 50.7 |
| 07:00 PM - 08:00 PM | 52.4 |
| 08:00 PM - 09:00 PM | 49.9 |
| 09:00 PM - 10:00 PM | 49.4 |
| 10:00 PM - 11:00 PM | 48.9 |
| 11:00 PM - 12:00 AM | 48.9 |
| 12:00 AM - 01:00 AM | 48.8 |
| 01:00 AM - 02:00 AM | 48.7 |
| 02:00 AM - 03:00 AM | 48.7 |
| 03:00 AM - 04:00 AM | 49.0 |
| 04:00 AM - 05:00 AM | 50.5 |
| 05:00 AM - 06:00 AM | 52.6 |
| 06:00 AM - 07:00 AM | 62.5 |
| 07:00 AM - 08:00 AM | 53.0 |
| 08:00 AM - 09:00 AM | 49.4 |
| 09:00 AM - 10:00 AM | 47.4 |
| 10:00 AM - 11:00 AM | 47.4 |
| 11:00 AM - 12:00 PM | 49.4 |
| Leq Average 24 hrs. (dB(A)) | 53.1 |
| Lmax (dB(A)) | 84.4 |
| L90 (dB(A)) | 57.3 |
| Ldn (dB(A)) | 70 |
| (standard (dB(A)) | 115 |
| Reference Method : [(O1996-1 and 1996-2 | |
| (standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 ถ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | |
| โรงงาน พ.ศ. 2548 | |

Technical Management (clientist ๑)

Approved by (action Head

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180336-1

Page 1 of 1

| Sample Number | 24128652-7 |
|--|--|
| Parameter | Air Quality |
| Location | Ban Nong (ang ๕P(47Q 0678387, 1805733) |
| Measurement Date | Nov 22 - Nov 23, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | (erial No. 710644 |
| Time | |
| 12:00 PM - 01:00 PM | 48.5 |
| 01:00 PM - 02:00 PM | 52.5 |
| 02:00 PM - 03:00 PM | 55.9 |
| 03:00 PM - 04:00 PM | 52.0 |
| 04:00 PM - 05:00 PM | 52.1 |
| 05:00 PM - 06:00 PM | 52.5 |
| 06:00 PM - 07:00 PM | 48.6 |
| 07:00 PM - 08:00 PM | 48.5 |
| 08:00 PM - 09:00 PM | 49.3 |
| 09:00 PM - 10:00 PM | 49.4 |
| 10:00 PM - 11:00 PM | 49.2 |
| 11:00 PM - 12:00 AM | 49.3 |
| 12:00 AM - 01:00 AM | 48.8 |
| 01:00 AM - 02:00 AM | 48.4 |
| 02:00 AM - 03:00 AM | 49.2 |
| 03:00 AM - 04:00 AM | 49.7 |
| 04:00 AM - 05:00 AM | 51.4 |
| 05:00 AM - 06:00 AM | 52.7 |
| 06:00 AM - 07:00 AM | 54.0 |
| 07:00 AM - 08:00 AM | 53.7 |
| 08:00 AM - 09:00 AM | 52.9 |
| 09:00 AM - 10:00 AM | 52.8 |
| 10:00 AM - 11:00 AM | 50.9 |
| 11:00 AM - 12:00 PM | 57.2 |
| Leq Average 24 hrs. (dB(A)) | 52.0 |
| Lmax (dB(A)) | 84.4 |
| L90 (dB(A)) | 57.5 |
| Ldn (dB(A)) | 70 |
| (standard (dB(A)) | 115 |
| Reference Method : [(O1996-1 and 1996-2 | |
| (standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 ถ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | |
| โรงงาน พ.ศ. 2548 | |

Technical Management (clientist ๑)

Approved by (action Head

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180339-1

Page 1 of 1

| | | | | |
|---------------------|--|---|--------------|-------------|
| Sample Number | | 24128652-10 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Khao Mor (GPS 47Q 0675703, 1804307) | | |
| Measurement Date | | Nov 18 - Nov 19, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022262 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 02:00 PM - 03:00 PM | | 52.5 | 83.9 | 46.8 |
| 03:00 PM - 04:00 PM | | 52.6 | 72.8 | 46.9 |
| 04:00 PM - 05:00 PM | | 51.8 | 73.8 | 46.7 |
| 05:00 PM - 06:00 PM | | 51.7 | 78.9 | 46.5 |
| 06:00 PM - 07:00 PM | | 54.8 | 76.2 | 48.4 |
| 07:00 PM - 08:00 PM | | 53.3 | 70.5 | 51.4 |
| 08:00 PM - 09:00 PM | | 54.7 | 71.1 | 52.0 |
| 09:00 PM - 10:00 PM | | 52.9 | 66.4 | 49.6 |
| 10:00 PM - 11:00 PM | | 48.2 | 72.7 | 45.6 |
| 11:00 PM - 12:00 AM | | 45.7 | 66.0 | 44.9 |
| 12:00 AM - 01:00 AM | | 48.0 | 60.6 | 44.4 |
| 01:00 AM - 02:00 AM | | 45.0 | 56.9 | 44.1 |
| 02:00 AM - 03:00 AM | | 44.9 | 58.0 | 43.9 |
| 03:00 AM - 04:00 AM | | 44.8 | 55.7 | 43.8 |
| 04:00 AM - 05:00 AM | | 45.9 | 65.7 | 44.1 |
| 05:00 AM - 06:00 AM | | 47.9 | 72.4 | 44.5 |
| 06:00 AM - 07:00 AM | | 53.5 | 79.6 | 45.4 |
| 07:00 AM - 08:00 AM | | 48.0 | 65.6 | 44.3 |
| 08:00 AM - 09:00 AM | | 50.1 | 72.7 | 45.6 |
| 09:00 AM - 10:00 AM | | 48.7 | 66.7 | 45.6 |
| 10:00 AM - 11:00 AM | | 50.1 | 66.8 | 46.1 |
| 11:00 AM - 12:00 PM | | 47.2 | 70.7 | 32.1 |
| 12:00 PM - 01:00 PM | | 48.0 | 67.3 | 34.6 |
| 01:00 PM - 02:00 PM | | 49.2 | 75.0 | 41.2 |

Technical Management _____ Approved by _____
Scientist (4) Section Head

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180338-1

Page 1 of 1

| | | | |
|---|-------------|--------------|-------------|
| Sample Number 24128652-9 | | | |
| Parameter Air Quality | | | |
| Location Ban Nong (ang 47Q 0678387, 1805733) | | | |
| Measurement Date Nov 24 - Nov 25, 2024 | | | |
| Measurement by Jirayut Kasemsuk | | | |
| Sound Level meter (erial No. 710644 | | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 12:00 PM - 01:00 PM | 51.3 | 75.6 | 42.5 |
| 01:00 PM - 02:00 PM | 52.7 | 76.9 | 43.3 |
| 02:00 PM - 03:00 PM | 54.6 | 78.7 | 42.1 |
| 03:00 PM - 04:00 PM | 54.7 | 78.3 | 42.5 |
| 04:00 PM - 05:00 PM | 52.3 | 75.3 | 44.8 |
| 05:00 PM - 06:00 PM | 53.9 | 77.8 | 45.8 |
| 06:00 PM - 07:00 PM | 48.8 | 66.6 | 43.1 |
| 07:00 PM - 08:00 PM | 52.0 | 77.7 | 47.8 |
| 08:00 PM - 09:00 PM | 51.6 | 73.9 | 48.5 |
| 09:00 PM - 10:00 PM | 50.3 | 64.6 | 48.5 |
| 10:00 PM - 11:00 PM | 51.5 | 78.1 | 48.8 |
| 11:00 PM - 12:00 AM | 49.4 | 63.5 | 48.1 |
| 12:00 AM - 01:00 AM | 50.9 | 64.5 | 49.4 |
| 01:00 AM - 02:00 AM | 51.7 | 66.1 | 49.8 |
| 02:00 AM - 03:00 AM | 50.7 | 60.6 | 49.7 |
| 03:00 AM - 04:00 AM | 52.4 | 68.5 | 50.4 |
| 04:00 AM - 05:00 AM | 52.7 | 75.5 | 49.5 |
| 05:00 AM - 06:00 AM | 52.0 | 68.7 | 49.7 |
| 06:00 AM - 07:00 AM | 53.4 | 74.8 | 49.0 |
| 07:00 AM - 08:00 AM | 56.9 | 77.0 | 49.7 |
| 08:00 AM - 09:00 AM | 53.7 | 76.3 | 47.2 |
| 09:00 AM - 10:00 AM | 56.0 | 78.3 | 45.4 |
| 10:00 AM - 11:00 AM | 53.8 | 82.8 | 43.2 |
| 11:00 AM - 12:00 PM | 51.8 | 74.0 | 39.0 |

Technical Management _____ Approved by _____
(Clientist (3) (action Head

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaoetluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180341-1

Page 1 of 1

| | | | | |
|-------------------|---|-------------|--------------|-------------|
| Sample Number | 24128652-12 | | | |
| Parameter | Air Quality | | | |
| Location | Ban Khao Mor (GPS 47Q 0675703, 1804307) | | | |
| Measurement Date | Nov 20 - Nov 21, 2024 | | | |
| Measurement by | Jirayut Kasemsuk | | | |
| Sound Level meter | Serial No. 1022262 | | | |
| | Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| | 02:00 PM - 03:00 PM | 52.3 | 88.9 | 40.1 |
| | 03:00 PM - 04:00 PM | 48.5 | 72.7 | 40.4 |
| | 04:00 PM - 05:00 PM | 49.4 | 77.0 | 39.7 |
| | 05:00 PM - 06:00 PM | 46.7 | 75.8 | 39.7 |
| | 06:00 PM - 07:00 PM | 47.9 | 70.6 | 39.9 |
| | 07:00 PM - 08:00 PM | 50.4 | 73.9 | 40.7 |
| | 08:00 PM - 09:00 PM | 49.9 | 76.1 | 39.8 |
| | 09:00 PM - 10:00 PM | 52.5 | 74.3 | 41.8 |
| | 10:00 PM - 11:00 PM | 51.3 | 72.8 | 46.4 |
| | 11:00 PM - 12:00 AM | 51.0 | 78.5 | 44.8 |
| | 12:00 AM - 01:00 AM | 48.7 | 75.9 | 43.5 |
| | 01:00 AM - 02:00 AM | 47.8 | 76.7 | 42.7 |
| | 02:00 AM - 03:00 AM | 45.5 | 62.9 | 42.1 |
| | 03:00 AM - 04:00 AM | 46.4 | 73.7 | 41.1 |
| | 04:00 AM - 05:00 AM | 43.7 | 68.2 | 40.2 |
| | 05:00 AM - 06:00 AM | 42.7 | 68.1 | 39.3 |
| | 06:00 AM - 07:00 AM | 42.1 | 62.6 | 39.5 |
| | 07:00 AM - 08:00 AM | 43.8 | 67.4 | 39.6 |
| | 08:00 AM - 09:00 AM | 46.7 | 60.5 | 41.7 |
| | 09:00 AM - 10:00 AM | 50.4 | 76.4 | 44.8 |
| | 10:00 AM - 11:00 AM | 47.5 | 69.6 | 41.1 |
| | 11:00 AM - 12:00 PM | 46.9 | 67.7 | 40.4 |
| | 12:00 PM - 01:00 PM | 62.4 | 93.9 | 40.1 |
| | 01:00 PM - 02:00 PM | 49.8 | 72.0 | 40.4 |

Technical Management _____ Approved by _____
Scientist (4) _____
Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaoetluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180340-1

Page 1 of 1

| | | | | |
|---------------------|--|---|--------------|-------------|
| Sample Number | | 24128652-11 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Khao Mor (GPS 47Q 0675703, 1804307) | | |
| Measurement Date | | Nov 19 - Nov 20, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022262 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 02:00 PM - 03:00 PM | | 48.9 | 85.1 | 39.2 |
| 03:00 PM - 04:00 PM | | 50.1 | 69.7 | 46.6 |
| 04:00 PM - 05:00 PM | | 49.6 | 66.0 | 46.8 |
| 05:00 PM - 06:00 PM | | 51.1 | 73.3 | 43.0 |
| 06:00 PM - 07:00 PM | | 51.1 | 69.5 | 40.2 |
| 07:00 PM - 08:00 PM | | 49.8 | 79.1 | 40.4 |
| 08:00 PM - 09:00 PM | | 51.6 | 74.9 | 41.6 |
| 09:00 PM - 10:00 PM | | 49.5 | 68.1 | 40.8 |
| 10:00 PM - 11:00 PM | | 52.5 | 70.6 | 49.5 |
| 11:00 PM - 12:00 AM | | 51.6 | 65.9 | 49.0 |
| 12:00 AM - 01:00 AM | | 49.5 | 71.6 | 44.3 |
| 01:00 AM - 02:00 AM | | 50.3 | 74.1 | 42.6 |
| 02:00 AM - 03:00 AM | | 45.7 | 69.1 | 41.1 |
| 03:00 AM - 04:00 AM | | 45.7 | 71.2 | 39.8 |
| 04:00 AM - 05:00 AM | | 44.0 | 69.2 | 40.0 |
| 05:00 AM - 06:00 AM | | 41.3 | 51.8 | 39.6 |
| 06:00 AM - 07:00 AM | | 42.1 | 59.1 | 39.3 |
| 07:00 AM - 08:00 AM | | 39.9 | 57.5 | 38.6 |
| 08:00 AM - 09:00 AM | | 43.2 | 67.5 | 38.6 |
| 09:00 AM - 10:00 AM | | 47.4 | 63.6 | 40.4 |
| 10:00 AM - 11:00 AM | | 51.2 | 76.3 | 44.4 |
| 11:00 AM - 12:00 PM | | 57.2 | 90.6 | 41.2 |
| 12:00 PM - 01:00 PM | | 49.3 | 71.3 | 41.7 |
| 01:00 PM - 02:00 PM | | 47.0 | 69.2 | 40.9 |

Technical Management _____ Approved by _____
SECTION _____



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180343-1

Page 1 of 1

| Sample Number | 24128652-14 |
|--|--|
| Parameter | Air Quality |
| Location | Ban Khao Kham (GPS 47Q 0675850, 1806485) |
| Measurement Date | Nov 23 - Nov 24, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 1022262 |
| Time | |
| 10:00 AM - 11:00 AM | 42.0 |
| 11:00 AM - 12:00 PM | 41.8 |
| 12:00 PM - 01:00 PM | 43.1 |
| 01:00 PM - 02:00 PM | 42.3 |
| 02:00 PM - 03:00 PM | 41.7 |
| 03:00 PM - 04:00 PM | 45.9 |
| 04:00 PM - 05:00 PM | 44.8 |
| 05:00 PM - 06:00 PM | 49.4 |
| 06:00 PM - 07:00 PM | 49.6 |
| 07:00 PM - 08:00 PM | 49.4 |
| 08:00 PM - 09:00 PM | 51.4 |
| 09:00 PM - 10:00 PM | 50.6 |
| 10:00 PM - 11:00 PM | 48.3 |
| 11:00 PM - 12:00 AM | 45.7 |
| 12:00 AM - 01:00 AM | 43.4 |
| 01:00 AM - 02:00 AM | 43.4 |
| 02:00 AM - 03:00 AM | 43.2 |
| 03:00 AM - 04:00 AM | 43.7 |
| 04:00 AM - 05:00 AM | 41.5 |
| 05:00 AM - 06:00 AM | 42.5 |
| 06:00 AM - 07:00 AM | 43.1 |
| 07:00 AM - 08:00 AM | 45.1 |
| 08:00 AM - 09:00 AM | 42.5 |
| 09:00 AM - 10:00 AM | 42.9 |
| Leq Average 24 hrs. (dB(A)) | |
| 46.1 | |
| Lmax (dB(A)) | |
| 78.2 | |
| L90 (dB(A)) | |
| 51.2 | |
| Ldn (dB(A)) | |
| 70 | |
| Standard (dB(A)) | |
| 115 | |
| Reference Method | |
| : ISO1996-1 and 1996-2 | |
| Standard | |
| : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | |
| โรงงาน พ.ศ. 2548 | |

Technical Management

Scientist (4)

Approved by

Section Head

Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER

2244-23/ EMAIL

S:\Reports_Air Noise rpt (11:56AM)

u.10/40



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180342-1

Page 1 of 1

| Sample Number | 24128652-13 |
|--|--|
| Parameter | Air Quality |
| Location | Ban Khao Kham (GPS 47Q 0675850, 1806485) |
| Measurement Date | Nov 22 - Nov 23, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 1022262 |
| Time | |
| 10:00 AM - 11:00 AM | 41.1 |
| 11:00 AM - 12:00 PM | 40.1 |
| 12:00 PM - 01:00 PM | 37.7 |
| 01:00 PM - 02:00 PM | 38.2 |
| 02:00 PM - 03:00 PM | 44.9 |
| 03:00 PM - 04:00 PM | 40.2 |
| 04:00 PM - 05:00 PM | 53.3 |
| 05:00 PM - 06:00 PM | 55.5 |
| 06:00 PM - 07:00 PM | 47.5 |
| 07:00 PM - 08:00 PM | 49.0 |
| 08:00 PM - 09:00 PM | 48.6 |
| 09:00 PM - 10:00 PM | 49.1 |
| 10:00 PM - 11:00 PM | 48.5 |
| 11:00 PM - 12:00 AM | 49.0 |
| 12:00 AM - 01:00 AM | 44.2 |
| 01:00 AM - 02:00 AM | 42.3 |
| 02:00 AM - 03:00 AM | 42.2 |
| 03:00 AM - 04:00 AM | 42.7 |
| 04:00 AM - 05:00 AM | 41.5 |
| 05:00 AM - 06:00 AM | 48.8 |
| 06:00 AM - 07:00 AM | 52.3 |
| 07:00 AM - 08:00 AM | 45.1 |
| 08:00 AM - 09:00 AM | 45.7 |
| 09:00 AM - 10:00 AM | 43.7 |
| Leq Average 24 hrs. (dB(A)) | |
| 48.0 | |
| Lmax (dB(A)) | |
| 76.7 | |
| L90 (dB(A)) | |
| 53.9 | |
| Ldn (dB(A)) | |
| 70 | |
| Standard (dB(A)) | |
| 115 | |
| Reference Method | |
| : ISO1996-1 and 1996-2 | |
| Standard | |
| : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป | |
| 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ | |
| โรงงาน พ.ศ. 2548 | |

Technical Management

Scientist (4)

Approved by

Section Head

Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER

2244-23/ EMAIL

S:\Reports_Air Noise rpt (11:56AM)



MM-N112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180345-1

Page 1 of 1

| | | | | |
|---------------------|--|---|--------------|-------------|
| Sample Number | | 24128652-16 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Tung Thong (GPS 47Q 0674687, 1805768) | | |
| Measurement Date | | Nov 22 - Nov 23, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 858517 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 11:00 AM - 12:00 PM | | 42.9 | 75.3 | 37.6 |
| 12:00 PM - 01:00 PM | | 42.0 | 65.3 | 38.3 |
| 01:00 PM - 02:00 PM | | 41.7 | 61.4 | 38.1 |
| 02:00 PM - 03:00 PM | | 46.9 | 78.8 | 38.0 |
| 03:00 PM - 04:00 PM | | 42.5 | 63.6 | 38.3 |
| 04:00 PM - 05:00 PM | | 44.4 | 68.7 | 38.8 |
| 05:00 PM - 06:00 PM | | 45.6 | 71.5 | 39.0 |
| 06:00 PM - 07:00 PM | | 46.7 | 66.3 | 40.8 |
| 07:00 PM - 08:00 PM | | 50.6 | 69.9 | 49.3 |
| 08:00 PM - 09:00 PM | | 50.6 | 76.6 | 49.1 |
| 09:00 PM - 10:00 PM | | 50.2 | 58.6 | 49.0 |
| 10:00 PM - 11:00 PM | | 49.7 | 59.9 | 48.0 |
| 11:00 PM - 12:00 AM | | 48.0 | 66.3 | 46.2 |
| 12:00 AM - 01:00 AM | | 48.1 | 75.1 | 44.5 |
| 01:00 AM - 02:00 AM | | 45.9 | 62.8 | 44.5 |
| 02:00 AM - 03:00 AM | | 46.0 | 66.1 | 44.8 |
| 03:00 AM - 04:00 AM | | 45.2 | 61.9 | 43.7 |
| 04:00 AM - 05:00 AM | | 45.2 | 64.8 | 43.7 |
| 05:00 AM - 06:00 AM | | 47.4 | 69.8 | 45.4 |
| 06:00 AM - 07:00 AM | | 47.8 | 64.0 | 44.5 |
| 07:00 AM - 08:00 AM | | 48.8 | 73.5 | 42.5 |
| 08:00 AM - 09:00 AM | | 48.4 | 65.1 | 41.1 |
| 09:00 AM - 10:00 AM | | 46.6 | 63.9 | 39.6 |
| 10:00 AM - 11:00 AM | | 43.7 | 69.9 | 38.8 |

Technical Management Scientist (4) **Approved by** Section Head

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180344-1

Page 1 of 1

| | | | | |
|---------------------|--|--|--------------|-------------|
| Sample Number | | 24128652-15 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Khao Kham (GPS 47Q 0675850, 1806485) | | |
| Measurement Date | | Nov 24 - Nov 25, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022262 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 10:00 AM - 11:00 AM | | 51.5 | 73.3 | 34.4 |
| 11:00 AM - 12:00 PM | | 42.3 | 64.2 | 33.2 |
| 12:00 PM - 01:00 PM | | 40.7 | 64.5 | 34.0 |
| 01:00 PM - 02:00 PM | | 41.8 | 64.3 | 36.3 |
| 02:00 PM - 03:00 PM | | 42.4 | 67.5 | 35.3 |
| 03:00 PM - 04:00 PM | | 42.8 | 64.9 | 34.9 |
| 04:00 PM - 05:00 PM | | 44.0 | 68.9 | 36.0 |
| 05:00 PM - 06:00 PM | | 45.5 | 71.3 | 35.7 |
| 06:00 PM - 07:00 PM | | 47.1 | 75.2 | 43.1 |
| 07:00 PM - 08:00 PM | | 51.9 | 77.7 | 45.8 |
| 08:00 PM - 09:00 PM | | 50.4 | 57.0 | 47.8 |
| 09:00 PM - 10:00 PM | | 51.5 | 59.7 | 48.6 |
| 10:00 PM - 11:00 PM | | 51.1 | 57.3 | 47.8 |
| 11:00 PM - 12:00 AM | | 49.8 | 66.3 | 45.3 |
| 12:00 AM - 01:00 AM | | 48.1 | 75.9 | 44.3 |
| 01:00 AM - 02:00 AM | | 48.4 | 78.2 | 43.2 |
| 02:00 AM - 03:00 AM | | 44.4 | 55.9 | 42.8 |
| 03:00 AM - 04:00 AM | | 44.6 | 64.0 | 42.3 |
| 04:00 AM - 05:00 AM | | 43.5 | 60.6 | 41.7 |
| 05:00 AM - 06:00 AM | | 43.1 | 61.0 | 39.5 |
| 06:00 AM - 07:00 AM | | 52.6 | 80.1 | 39.0 |
| 07:00 AM - 08:00 AM | | 45.6 | 71.5 | 36.2 |
| 08:00 AM - 09:00 AM | | 43.5 | 66.6 | 33.0 |
| 09:00 AM - 10:00 AM | | 44.1 | 71.2 | 32.5 |

Technical Management Scientist (4) **Approved by** Section Head

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



MM-N112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180347-1

Page 1 of 1

| | | | | |
|---------------------|---|--------------|-------------|--|
| Sample Number | 24128652-18 | | | |
| Parameter | Air Quality | | | |
| Location | Ban Tung Thong (GPS 47Q 0674687, 1805768) | | | |
| Measurement Date | Nov 24 - Nov 25, 2024 | | | |
| Measurement by | Jirayut Kasemsuk | | | |
| Sound Level meter | Serial No. 858517 | | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) | |
| 11:00 AM - 12:00 PM | 42.3 | 70.1 | 37.9 | |
| 12:00 PM - 01:00 PM | 42.1 | 57.8 | 38.7 | |
| 01:00 PM - 02:00 PM | 45.1 | 71.6 | 38.3 | |
| 02:00 PM - 03:00 PM | 41.9 | 65.2 | 38.1 | |
| 03:00 PM - 04:00 PM | 40.9 | 62.8 | 37.9 | |
| 04:00 PM - 05:00 PM | 43.6 | 61.3 | 38.6 | |
| 05:00 PM - 06:00 PM | 50.6 | 81.1 | 40.0 | |
| 06:00 PM - 07:00 PM | 56.4 | 74.4 | 44.9 | |
| 07:00 PM - 08:00 PM | 53.5 | 72.9 | 48.1 | |
| 08:00 PM - 09:00 PM | 49.5 | 72.8 | 48.3 | |
| 09:00 PM - 10:00 PM | 50.3 | 73.1 | 49.3 | |
| 10:00 PM - 11:00 PM | 49.3 | 60.6 | 48.2 | |
| 11:00 PM - 12:00 AM | 48.3 | 54.0 | 47.3 | |
| 12:00 AM - 01:00 AM | 47.8 | 51.4 | 46.9 | |
| 01:00 AM - 02:00 AM | 47.7 | 62.2 | 46.5 | |
| 02:00 AM - 03:00 AM | 47.7 | 56.2 | 46.4 | |
| 03:00 AM - 04:00 AM | 47.2 | 72.0 | 45.4 | |
| 04:00 AM - 05:00 AM | 46.0 | 60.1 | 45.0 | |
| 05:00 AM - 06:00 AM | 46.6 | 60.5 | 45.1 | |
| 06:00 AM - 07:00 AM | 48.8 | 68.7 | 45.1 | |
| 07:00 AM - 08:00 AM | 49.3 | 69.1 | 42.5 | |
| 08:00 AM - 09:00 AM | 47.5 | 68.0 | 40.9 | |
| 09:00 AM - 10:00 AM | 47.2 | 69.8 | 39.2 | |
| 10:00 AM - 11:00 AM | 43.3 | 64.3 | 38.3 | |

Technical Management

Approved by

Scientist (4)

Section

Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER

2244-23/ EMAIL

S:\Reports_Air Noise rpt (11:57AM)

u.10/42



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180346-1

Page 1 of 1

| | | | | |
|-------------------|---|-------------|--------------|-------------|
| Sample Number | 24128652-17 | | | |
| Parameter | Air Quality | | | |
| Location | Ban Tung Thong (GPS 47Q 0674687, 1805768) | | | |
| Measurement Date | Nov 23 - Nov 24, 2024 | | | |
| Measurement by | Jirayut Kasemsuk | | | |
| Sound Level meter | Serial No. 858517 | | | |
| | Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| | 11:00 AM - 12:00 PM | 42.1 | 61.2 | 39.4 |
| | 12:00 PM - 01:00 PM | 43.5 | 72.6 | 38.4 |
| | 01:00 PM - 02:00 PM | 43.7 | 67.0 | 38.0 |
| | 02:00 PM - 03:00 PM | 46.0 | 78.0 | 38.0 |
| | 03:00 PM - 04:00 PM | 43.3 | 66.2 | 38.4 |
| | 04:00 PM - 05:00 PM | 44.4 | 68.3 | 39.2 |
| | 05:00 PM - 06:00 PM | 46.1 | 69.8 | 41.0 |
| | 06:00 PM - 07:00 PM | 48.2 | 69.2 | 42.6 |
| | 07:00 PM - 08:00 PM | 50.2 | 69.4 | 48.6 |
| | 08:00 PM - 09:00 PM | 50.3 | 73.8 | 48.6 |
| | 09:00 PM - 10:00 PM | 49.0 | 64.4 | 47.9 |
| | 10:00 PM - 11:00 PM | 47.3 | 63.6 | 46.3 |
| | 11:00 PM - 12:00 AM | 46.7 | 62.3 | 45.7 |
| | 12:00 AM - 01:00 AM | 46.2 | 63.3 | 45.1 |
| | 01:00 AM - 02:00 AM | 46.4 | 55.3 | 45.5 |
| | 02:00 AM - 03:00 AM | 46.2 | 57.7 | 45.2 |
| | 03:00 AM - 04:00 AM | 46.0 | 55.5 | 44.8 |
| | 04:00 AM - 05:00 AM | 46.2 | 71.8 | 44.0 |
| | 05:00 AM - 06:00 AM | 46.0 | 62.1 | 44.6 |
| | 06:00 AM - 07:00 AM | 48.5 | 69.1 | 45.3 |
| | 07:00 AM - 08:00 AM | 50.7 | 73.6 | 43.9 |
| | 08:00 AM - 09:00 AM | 48.9 | 67.2 | 42.3 |
| | 09:00 AM - 10:00 AM | 46.2 | 65.7 | 39.1 |
| | 10:00 AM - 11:00 AM | 53.8 | 86.5 | 38.6 |

Technical Management

Approved by

Scientist (4)

Section Head

Life Sciences

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RIGHT SOLUTIONS RIGHT PARTNER

2244-23/ EMAIL

S:\Reports_Air Noise rpt (11:57AM)

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180349-1

Page 1 of 1

| | | | | |
|---------------------|--|---|--------------|-------------|
| Sample Number | | 24128652-20 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193) | | |
| Measurement Date | | Nov 23 - Nov 24, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022263 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 11:00 AM - 12:00 PM | | 54.6 | 78.2 | 42.8 |
| 12:00 PM - 01:00 PM | | 56.7 | 78.7 | 40.3 |
| 01:00 PM - 02:00 PM | | 53.6 | 80.1 | 40.2 |
| 02:00 PM - 03:00 PM | | 55.5 | 83.3 | 40.5 |
| 03:00 PM - 04:00 PM | | 51.3 | 73.0 | 42.3 |
| 04:00 PM - 05:00 PM | | 50.8 | 80.1 | 41.8 |
| 05:00 PM - 06:00 PM | | 66.5 | 83.3 | 43.0 |
| 06:00 PM - 07:00 PM | | 56.9 | 82.0 | 52.2 |
| 07:00 PM - 08:00 PM | | 59.4 | 68.5 | 57.9 |
| 08:00 PM - 09:00 PM | | 60.7 | 75.8 | 59.7 |
| 09:00 PM - 10:00 PM | | 60.9 | 74.4 | 59.7 |
| 10:00 PM - 11:00 PM | | 59.7 | 80.0 | 58.3 |
| 11:00 PM - 12:00 AM | | 58.1 | 62.3 | 56.6 |
| 12:00 AM - 01:00 AM | | 56.7 | 63.5 | 55.0 |
| 01:00 AM - 02:00 AM | | 56.1 | 60.0 | 54.8 |
| 02:00 AM - 03:00 AM | | 55.8 | 68.0 | 54.5 |
| 03:00 AM - 04:00 AM | | 54.5 | 80.6 | 49.4 |
| 04:00 AM - 05:00 AM | | 49.8 | 66.2 | 47.1 |
| 05:00 AM - 06:00 AM | | 51.0 | 74.5 | 46.1 |
| 06:00 AM - 07:00 AM | | 50.4 | 79.7 | 40.7 |
| 07:00 AM - 08:00 AM | | 50.6 | 71.1 | 41.3 |
| 08:00 AM - 09:00 AM | | 54.8 | 89.6 | 41.6 |
| 09:00 AM - 10:00 AM | | 50.9 | 75.9 | 40.5 |
| 10:00 AM - 11:00 AM | | 53.3 | 83.2 | 39.6 |

Technical Management Approved by Scientist (4) Section Head

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180348-1

Page 1 of 1

| | | | | |
|---------------------|--|---|--------------|-------------|
| Sample Number | | 24128652-19 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193) | | |
| Measurement Date | | Nov 22 - Nov 23, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022263 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 11:00 AM - 12:00 PM | | 54.3 | 95.3 | 41.7 |
| 12:00 PM - 01:00 PM | | 48.4 | 72.4 | 41.0 |
| 01:00 PM - 02:00 PM | | 46.5 | 68.9 | 42.6 |
| 02:00 PM - 03:00 PM | | 52.1 | 83.4 | 41.8 |
| 03:00 PM - 04:00 PM | | 55.3 | 81.5 | 41.5 |
| 04:00 PM - 05:00 PM | | 52.8 | 75.8 | 43.7 |
| 05:00 PM - 06:00 PM | | 53.2 | 76.4 | 44.9 |
| 06:00 PM - 07:00 PM | | 56.8 | 67.4 | 53.6 |
| 07:00 PM - 08:00 PM | | 60.7 | 76.5 | 58.6 |
| 08:00 PM - 09:00 PM | | 60.2 | 72.9 | 59.2 |
| 09:00 PM - 10:00 PM | | 60.5 | 68.7 | 58.4 |
| 10:00 PM - 11:00 PM | | 59.6 | 73.7 | 57.1 |
| 11:00 PM - 12:00 AM | | 59.0 | 72.2 | 55.7 |
| 12:00 AM - 01:00 AM | | 57.9 | 62.6 | 53.1 |
| 01:00 AM - 02:00 AM | | 54.2 | 65.9 | 51.8 |
| 02:00 AM - 03:00 AM | | 55.1 | 61.9 | 51.9 |
| 03:00 AM - 04:00 AM | | 53.1 | 69.9 | 50.3 |
| 04:00 AM - 05:00 AM | | 52.9 | 62.9 | 49.6 |
| 05:00 AM - 06:00 AM | | 54.7 | 67.0 | 50.1 |
| 06:00 AM - 07:00 AM | | 58.1 | 86.9 | 45.2 |
| 07:00 AM - 08:00 AM | | 69.2 | 94.5 | 42.6 |
| 08:00 AM - 09:00 AM | | 52.7 | 71.1 | 42.4 |
| 09:00 AM - 10:00 AM | | 50.4 | 70.6 | 42.4 |
| 10:00 AM - 11:00 AM | | 48.5 | 71.9 | 42.1 |

Technical Management Approved by Scientist (4) Section Head

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180351-1

Page 1 of 1

| | | | | | | | | | |
|---------------------|--|--|--|--|--|--------------|--|-------------|--|
| Sample Number | | | | 24128652-22 | | | | | |
| Parameter | | | | Air Quality | | | | | |
| Location | | | | Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820) | | | | | |
| Measurement Date | | | | Nov 18 - Nov 19, 2024 | | | | | |
| Measurement by | | | | Jirayut Kasemsuk | | | | | |
| Sound Level meter | | | | Serial No. 1122504 | | | | | |
| Time | | | | Leq (dB(A)) | | Lmax (dB(A)) | | L90 (dB(A)) | |
| 04:00 PM - 05:00 PM | | | | 47.6 | | 71.0 | | 35.9 | |
| 05:00 PM - 06:00 PM | | | | 48.8 | | 61.7 | | 44.5 | |
| 06:00 PM - 07:00 PM | | | | 53.7 | | 61.0 | | 51.8 | |
| 07:00 PM - 08:00 PM | | | | 51.1 | | 56.7 | | 50.1 | |
| 08:00 PM - 09:00 PM | | | | 50.8 | | 63.9 | | 49.2 | |
| 09:00 PM - 10:00 PM | | | | 48.5 | | 63.7 | | 46.4 | |
| 10:00 PM - 11:00 PM | | | | 46.0 | | 58.8 | | 45.3 | |
| 11:00 PM - 12:00 AM | | | | 45.9 | | 59.4 | | 44.8 | |
| 12:00 AM - 01:00 AM | | | | 45.2 | | 54.7 | | 44.1 | |
| 01:00 AM - 02:00 AM | | | | 44.9 | | 58.6 | | 43.7 | |
| 02:00 AM - 03:00 AM | | | | 45.0 | | 59.3 | | 43.9 | |
| 03:00 AM - 04:00 AM | | | | 47.1 | | 66.5 | | 44.3 | |
| 04:00 AM - 05:00 AM | | | | 47.5 | | 68.8 | | 44.2 | |
| 05:00 AM - 06:00 AM | | | | 48.7 | | 69.7 | | 45.1 | |
| 06:00 AM - 07:00 AM | | | | 48.8 | | 73.0 | | 44.5 | |
| 07:00 AM - 08:00 AM | | | | 46.3 | | 64.4 | | 43.9 | |
| 08:00 AM - 09:00 AM | | | | 46.9 | | 67.7 | | 43.5 | |
| 09:00 AM - 10:00 AM | | | | 47.9 | | 69.4 | | 43.8 | |
| 10:00 AM - 11:00 AM | | | | 46.5 | | 63.9 | | 44.0 | |
| 11:00 AM - 12:00 PM | | | | 47.7 | | 66.2 | | 43.3 | |
| 12:00 PM - 01:00 PM | | | | 45.6 | | 66.9 | | 43.3 | |
| 01:00 PM - 02:00 PM | | | | 46.7 | | 64.8 | | 43.2 | |
| 02:00 PM - 03:00 PM | | | | 46.9 | | 66.2 | | 43.1 | |
| 03:00 PM - 04:00 PM | | | | 46.2 | | 64.0 | | 43.1 | |

Technical Management _____ **Approved by** _____
Scientist (4) _____ Section Head _____

2244-23/ EMAIL

S:\Reports_Air Noise ppt (126PM)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180350-1

Page 1 of 1

| | | | | |
|---------------------|--|---|--------------|-------------|
| Sample Number | | 24128652-21 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193) | | |
| Measurement Date | | Nov 24 - Nov 25, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1022263 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 11:00 AM - 12:00 PM | | 54.2 | 76.3 | 42.3 |
| 12:00 PM - 01:00 PM | | 53.8 | 83.7 | 42.2 |
| 01:00 PM - 02:00 PM | | 51.5 | 76.5 | 39.5 |
| 02:00 PM - 03:00 PM | | 51.5 | 77.0 | 44.9 |
| 03:00 PM - 04:00 PM | | 52.7 | 83.0 | 43.0 |
| 04:00 PM - 05:00 PM | | 57.5 | 93.9 | 42.8 |
| 05:00 PM - 06:00 PM | | 53.1 | 80.8 | 42.2 |
| 06:00 PM - 07:00 PM | | 54.2 | 81.7 | 49.4 |
| 07:00 PM - 08:00 PM | | 56.9 | 75.9 | 53.9 |
| 08:00 PM - 09:00 PM | | 61.4 | 67.4 | 60.1 |
| 09:00 PM - 10:00 PM | | 61.3 | 72.1 | 60.5 |
| 10:00 PM - 11:00 PM | | 61.1 | 82.2 | 59.8 |
| 11:00 PM - 12:00 AM | | 59.9 | 75.4 | 57.5 |
| 12:00 AM - 01:00 AM | | 58.8 | 71.7 | 57.8 |
| 01:00 AM - 02:00 AM | | 58.6 | 62.3 | 56.5 |
| 02:00 AM - 03:00 AM | | 56.3 | 60.9 | 54.9 |
| 03:00 AM - 04:00 AM | | 55.3 | 78.1 | 51.7 |
| 04:00 AM - 05:00 AM | | 54.5 | 74.9 | 51.0 |
| 05:00 AM - 06:00 AM | | 56.1 | 83.3 | 50.5 |
| 06:00 AM - 07:00 AM | | 52.3 | 82.8 | 43.6 |
| 07:00 AM - 08:00 AM | | 50.7 | 79.1 | 42.6 |
| 08:00 AM - 09:00 AM | | 53.3 | 80.2 | 42.2 |
| 09:00 AM - 10:00 AM | | 56.1 | 80.8 | 42.1 |
| 10:00 AM - 11:00 AM | | 54.4 | 75.0 | 39.0 |

Technical Management _____ **Approved by** _____
Scientist (4) _____ Section Head _____

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

2244-23/ EMAIL

S:\Reports_Air Noise ppt (126PM)

u.10/44



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180353-1

Page 1 of 1

| | | | | |
|---------------------|--|--|--------------|-------------|
| Sample Number | | 24128652-24 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820) | | |
| Measurement Date | | Nov 20 - Nov 21, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 1122504 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 04:00 PM - 05:00 PM | | 46.8 | 69.3 | 43.0 |
| 05:00 PM - 06:00 PM | | 47.7 | 61.2 | 44.4 |
| 06:00 PM - 07:00 PM | | 48.3 | 62.5 | 44.2 |
| 07:00 PM - 08:00 PM | | 46.9 | 57.0 | 44.7 |
| 08:00 PM - 09:00 PM | | 48.7 | 78.6 | 44.8 |
| 09:00 PM - 10:00 PM | | 51.0 | 61.6 | 44.5 |
| 10:00 PM - 11:00 PM | | 55.6 | 63.8 | 52.6 |
| 11:00 PM - 12:00 AM | | 56.0 | 64.6 | 51.4 |
| 12:00 AM - 01:00 AM | | 58.4 | 63.9 | 49.9 |
| 01:00 AM - 02:00 AM | | 49.6 | 68.9 | 48.1 |
| 02:00 AM - 03:00 AM | | 47.7 | 58.2 | 45.9 |
| 03:00 AM - 04:00 AM | | 47.9 | 60.8 | 46.2 |
| 04:00 AM - 05:00 AM | | 47.7 | 54.8 | 44.5 |
| 05:00 AM - 06:00 AM | | 47.0 | 62.7 | 44.4 |
| 06:00 AM - 07:00 AM | | 46.2 | 66.4 | 44.4 |
| 07:00 AM - 08:00 AM | | 49.4 | 67.1 | 45.1 |
| 08:00 AM - 09:00 AM | | 51.1 | 70.1 | 45.6 |
| 09:00 AM - 10:00 AM | | 49.2 | 76.5 | 45.5 |
| 10:00 AM - 11:00 AM | | 48.4 | 61.1 | 45.1 |
| 11:00 AM - 12:00 PM | | 49.4 | 62.3 | 44.9 |
| 12:00 PM - 01:00 PM | | 48.5 | 63.2 | 44.3 |
| 01:00 PM - 02:00 PM | | 50.1 | 63.7 | 44.4 |
| 02:00 PM - 03:00 PM | | 49.3 | 68.4 | 44.3 |
| 03:00 PM - 04:00 PM | | 45.2 | 57.2 | 43.4 |

Technical Management _____ **Approved by** _____
Scientist (4) _____ Section Head _____

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochedluk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180352-1

Page 1 of 1

| | | | | |
|---------------------|--|--------------|-------------|--|
| Sample Number | 24128652-23 | | | |
| Parameter | Air Quality | | | |
| Location | Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820) | | | |
| Measurement Date | Nov 19 - Nov 20, 2024 | | | |
| Measurement by | Jirayut Kasemsuk | | | |
| Sound Level meter | Serial No. 1122504 | | | |
| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) | |
| 04:00 PM - 05:00 PM | 46.6 | 72.2 | 42.6 | |
| 05:00 PM - 06:00 PM | 45.8 | 62.2 | 43.2 | |
| 06:00 PM - 07:00 PM | 47.2 | 74.5 | 43.7 | |
| 07:00 PM - 08:00 PM | 48.8 | 72.8 | 44.2 | |
| 08:00 PM - 09:00 PM | 53.3 | 60.7 | 48.1 | |
| 09:00 PM - 10:00 PM | 54.3 | 66.8 | 52.4 | |
| 10:00 PM - 11:00 PM | 52.7 | 58.5 | 51.0 | |
| 11:00 PM - 12:00 AM | 50.6 | 57.7 | 49.1 | |
| 12:00 AM - 01:00 AM | 49.3 | 64.4 | 46.7 | |
| 01:00 AM - 02:00 AM | 47.8 | 74.1 | 45.8 | |
| 02:00 AM - 03:00 AM | 46.1 | 60.3 | 44.3 | |
| 03:00 AM - 04:00 AM | 45.0 | 62.0 | 44.1 | |
| 04:00 AM - 05:00 AM | 46.4 | 67.4 | 43.8 | |
| 05:00 AM - 06:00 AM | 45.9 | 63.3 | 44.5 | |
| 06:00 AM - 07:00 AM | 47.3 | 68.0 | 44.8 | |
| 07:00 AM - 08:00 AM | 49.7 | 80.4 | 45.2 | |
| 08:00 AM - 09:00 AM | 49.2 | 76.1 | 44.7 | |
| 09:00 AM - 10:00 AM | 47.7 | 69.4 | 43.7 | |
| 10:00 AM - 11:00 AM | 48.6 | 71.7 | 43.3 | |
| 11:00 AM - 12:00 PM | 48.5 | 64.6 | 43.4 | |
| 12:00 PM - 01:00 PM | 49.1 | 70.9 | 43.7 | |
| 01:00 PM - 02:00 PM | 46.9 | 66.2 | 43.1 | |
| 02:00 PM - 03:00 PM | 46.2 | 64.0 | 43.1 | |
| 03:00 PM - 04:00 PM | 46.2 | 66.4 | 44.4 | |

Technical Management _____ **Approved by** _____
) _____ Section Head _____

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



MM-M112

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180355-1

Page 1 of 1

| | | | | |
|---------------------|--|--|--------------|-------------|
| Sample Number | | 24128652-26 | | |
| Parameter | | Air Quality | | |
| Location | | Ban Long Du (GPS 47Q 0672008, 1799066) | | |
| Measurement Date | | Nov 19 - Nov 20, 2024 | | |
| Measurement by | | Jirayut Kasemsuk | | |
| Sound Level meter | | Serial No. 858517 | | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
| 04:00 PM - 05:00 PM | | 44.1 | 70.7 | 38.6 |
| 05:00 PM - 06:00 PM | | 44.5 | 72.4 | 38.5 |
| 06:00 PM - 07:00 PM | | 47.1 | 69.3 | 41.3 |
| 07:00 PM - 08:00 PM | | 51.5 | 81.3 | 40.9 |
| 08:00 PM - 09:00 PM | | 47.8 | 66.4 | 42.3 |
| 09:00 PM - 10:00 PM | | 50.1 | 71.6 | 48.1 |
| 10:00 PM - 11:00 PM | | 49.6 | 68.2 | 47.0 |
| 11:00 PM - 12:00 AM | | 46.7 | 59.2 | 45.2 |
| 12:00 AM - 01:00 AM | | 50.3 | 70.8 | 46.9 |
| 01:00 AM - 02:00 AM | | 51.2 | 71.7 | 43.6 |
| 02:00 AM - 03:00 AM | | 47.4 | 72.0 | 42.2 |
| 03:00 AM - 04:00 AM | | 46.2 | 75.4 | 42.0 |
| 04:00 AM - 05:00 AM | | 43.4 | 56.7 | 41.2 |
| 05:00 AM - 06:00 AM | | 45.1 | 71.0 | 40.6 |
| 06:00 AM - 07:00 AM | | 45.4 | 71.6 | 41.4 |
| 07:00 AM - 08:00 AM | | 54.2 | 80.4 | 43.1 |
| 08:00 AM - 09:00 AM | | 49.9 | 77.5 | 43.0 |
| 09:00 AM - 10:00 AM | | 49.1 | 74.7 | 41.8 |
| 10:00 AM - 11:00 AM | | 46.4 | 68.3 | 39.7 |
| 11:00 AM - 12:00 PM | | 47.0 | 67.6 | 39.4 |
| 12:00 PM - 01:00 PM | | 51.3 | 72.5 | 39.7 |
| 01:00 PM - 02:00 PM | | 48.4 | 73.3 | 39.1 |
| 02:00 PM - 03:00 PM | | 47.3 | 72.2 | 39.7 |
| 03:00 PM - 04:00 PM | | 46.3 | 66.7 | 40.9 |

Technical Management _____ Approved by _____
Scientist (4) _____ Section Head _____

u.10/46



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180354-1

Page 1 of 1

| | | | |
|-----------------------------|--|---|--------------|
| Sample Number | | 24128652-25 | |
| Parameter | | Air Quality | |
| Location | | Ban Long Du (GPS 47Q 0672008, 1799066) | |
| Measurement Date | | Nov 18 - Nov 19, 2024 | |
| Measurement by | | Jirayut Kasemsuk | |
| Sound Level meter | | Serial No. 858517 | |
| Time | | Leq (dB(A)) | Lmax (dB(A)) |
| 04:00 PM - 05:00 PM | | 49.2 | 78.0 |
| 05:00 PM - 06:00 PM | | 49.4 | 71.0 |
| 06:00 PM - 07:00 PM | | 48.7 | 66.0 |
| 07:00 PM - 08:00 PM | | 48.8 | 68.6 |
| 08:00 PM - 09:00 PM | | 51.4 | 79.4 |
| 09:00 PM - 10:00 PM | | 46.9 | 65.3 |
| 10:00 PM - 11:00 PM | | 47.9 | 67.4 |
| 11:00 PM - 12:00 AM | | 47.4 | 71.4 |
| 12:00 AM - 01:00 AM | | 57.4 | 85.7 |
| 01:00 AM - 02:00 AM | | 46.5 | 66.7 |
| 02:00 AM - 03:00 AM | | 45.7 | 73.2 |
| 03:00 AM - 04:00 AM | | 43.7 | 68.0 |
| 04:00 AM - 05:00 AM | | 45.9 | 75.5 |
| 05:00 AM - 06:00 AM | | 51.8 | 79.2 |
| 06:00 AM - 07:00 AM | | 49.0 | 76.0 |
| 07:00 AM - 08:00 AM | | 47.1 | 67.3 |
| 08:00 AM - 09:00 AM | | 48.6 | 72.8 |
| 09:00 AM - 10:00 AM | | 48.7 | 72.4 |
| 10:00 AM - 11:00 AM | | 49.4 | 74.0 |
| 11:00 AM - 12:00 PM | | 47.8 | 72.4 |
| 12:00 PM - 01:00 PM | | 43.7 | 62.5 |
| 01:00 PM - 02:00 PM | | 42.2 | 63.0 |
| 02:00 PM - 03:00 PM | | 44.3 | 73.1 |
| 03:00 PM - 04:00 PM | | 42.3 | 66.9 |
| Leq Average 24 hrs. (dB(A)) | | 49.2 | |
| Lmax (dB(A)) | | | 85.7 |
| L90 (dB(A)) | | | 41.3 |
| Ldn (dB(A)) | | | 56.7 |
| Standard (dB(A)) | | | 70 |
| Reference Method | | : ISO1996-1 and 1996-2 | |
| Standard | | : 1. ประกาศกรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการโรงงาน พ.ศ. 2548 | |

Technical Management _____ Approved by _____
Scientist (4) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaodetluk, Amphur Thapkor, Phichit Thailand 66230

Lot ID: 24128652
Date Received : Nov 27, 2024
Date Reported : Nov 29, 2024
Report Number: 3180356-1

P/O : 47581

Project Name : Air Test

Project Location :

Page 1 of 1

| | |
|-------------------|--|
| Sample Number | 24128652-27 |
| Parameter | Air Quality |
| Location | Ban Long Du (GPS 47Q 0672008, 1799066) |
| Measurement Date | Nov 20 - Nov 21, 2024 |
| Measurement by | Jirayut Kasemsuk |
| Sound Level meter | Serial No. 858517 |

| Time | Leq (dB(A)) | Lmax (dB(A)) | L90 (dB(A)) |
|-----------------------------|-------------|--------------|-------------|
| 04:00 PM - 05:00 PM | 46.3 | 64.4 | 38.2 |
| 05:00 PM - 06:00 PM | 43.2 | 63.8 | 39.2 |
| 06:00 PM - 07:00 PM | 43.6 | 63.7 | 38.2 |
| 07:00 PM - 08:00 PM | 46.0 | 66.9 | 39.3 |
| 08:00 PM - 09:00 PM | 52.4 | 76.2 | 42.7 |
| 09:00 PM - 10:00 PM | 48.7 | 68.8 | 42.2 |
| 10:00 PM - 11:00 PM | 49.4 | 64.7 | 46.9 |
| 11:00 PM - 12:00 AM | 49.1 | 64.1 | 46.7 |
| 12:00 AM - 01:00 AM | 49.7 | 71.4 | 46.1 |
| 01:00 AM - 02:00 AM | 48.3 | 73.0 | 44.4 |
| 02:00 AM - 03:00 AM | 45.4 | 65.7 | 43.4 |
| 03:00 AM - 04:00 AM | 44.9 | 71.8 | 42.6 |
| 04:00 AM - 05:00 AM | 45.6 | 65.8 | 42.1 |
| 05:00 AM - 06:00 AM | 44.1 | 67.2 | 41.9 |
| 06:00 AM - 07:00 AM | 46.7 | 68.5 | 40.1 |
| 07:00 AM - 08:00 AM | 53.4 | 84.2 | 39.6 |
| 08:00 AM - 09:00 AM | 51.4 | 81.6 | 41.0 |
| 09:00 AM - 10:00 AM | 58.5 | 82.8 | 42.5 |
| 10:00 AM - 11:00 AM | 50.5 | 75.9 | 42.2 |
| 11:00 AM - 12:00 PM | 50.6 | 78.2 | 41.0 |
| 12:00 PM - 01:00 PM | 47.7 | 68.6 | 39.4 |
| 01:00 PM - 02:00 PM | 45.6 | 63.7 | 39.6 |
| 02:00 PM - 03:00 PM | 45.2 | 65.1 | 39.1 |
| 03:00 PM - 04:00 PM | 46.6 | 63.5 | 38.8 |
| Leq Average 24 hrs. (dB(A)) | 49.9 | 84.2 | 41.0 |
| Lmax (dB(A)) | | | |
| L90 (dB(A)) | | | |
| Ldn (dB(A)) | 54.6 | | |
| Standard (dB(A)) | 70 | 115 | |

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ไม่ควรเกินจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Approved by

Scientist (4)

Section Head



Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheuluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Sample Number : 2492613-2
Sample Description : Vibration
Location : Ban Khao Mor (GPS 47Q 0675703, 1804307)
Sampled Date : Aug 21 - Aug 22, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | V901 | | - | | | |
| Model | | V901 | | 1618 | | - | | | |
| S/N | | 1618 | | - | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 21, 2024 | 12:15 PM | 0.625 | 50.000 | 0.005 | 0.675 | 50.000 | 0.005 | 2.150 | 35.700 | 0.019 | 117 |
| Max | | 0.625 | 50.00 | 0.005 | 0.675 | 50.00 | 0.005 | 2.150 | 35.70 | 0.019 | 117 |
| Standard | | ≤ 50.8 | - | ≤ 0.20 | ≤ 50.8 | - | ≤ 0.20 | ≤ 45.2 | - | ≤ 0.20 | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).
- PD = Peak Displacement
- ND = Not Detect

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheuluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Sample Number : 2492613-1
Sample Description : Vibration
Location : Ban Dong Long (GPS 47Q 0678205, 1802158)
Sampled Date : Aug 21 - Aug 22, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | V901 | | - | | | |
| Model | | V901 | | 1852 | | - | | | |
| S/N | | 1852 | | - | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 21, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).
- PD = Peak Displacement
- ND = Not Detect

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheulok, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Sample Number : 2492613-4
Sample Description : Vibration
Location : Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Sampled Date : Aug 21 - Aug 22, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | V901 | | - | | | |
| Model | | V901 | | 1617 | | - | | | |
| S/N | | 1617 | | - | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 21, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity - PD = Peak Displacement - ND = Not Detect
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheulok, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Sample Number : 2492613-3
Sample Description : Vibration
Location : Ban Khao Kham (GPS 47Q 0675850, 1806485)
Sampled Date : Aug 21 - Aug 22, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | V901 | | - | | | |
| Model | | V901 | | 1822 | | - | | | |
| S/N | | 1822 | | - | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 21, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity - PD = Peak Displacement - ND = Not Detect
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheulak, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Sample Number : 2492613-6
Sample Description : Vibration
Location : Ban Tung Thong (GPS 47Q 0674687, 1805768)
Sampled Date : Aug 24 - Aug 25, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | Vibrolock | | - | | | |
| Model | | V901 | | V901 | | - | | | |
| S/N | | 1617 | | 1617 | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 24, 2024 | 01:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity - PD = Peak Displacement - ND = Not Detect
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheulak, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Sample Number : 2492613-5
Sample Description : Vibration
Location : Ban Nong Sang (GPS 47Q 0678387, 1805733)
Sampled Date : Aug 24 - Aug 25, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | Vibrolock | | - | | | |
| Model | | V901 | | V901 | | - | | | |
| S/N | | 1822 | | 1822 | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 24, 2024 | 01:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity - PD = Peak Displacement - ND = Not Detect
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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MM-N12

Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochelluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

Sample Number : 24128649-1
Sample Description : Vibration
Location : Ban Dong Long (GPS 47Q 0678205, 1802158)
Sampled Date : Nov 22 - Nov 23, 2024
Sampled by : Jirayut Kasemsuk

| Equipment Data | | | | | | | | | |
|----------------|-------------|------------|------------|--|--|--|--|--|--|
| Description | Data Logger | Geophone | Microphone | | | | | | |
| Brand | Vibrolock | Vibrolock | - | | | | | | |
| Model | V901 | V901 | - | | | | | | |
| S/N | 1618 | 1618 | - | | | | | | |
| Sensitivity | - | 0.254 mm/s | - | | | | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 22, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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ASSISTANT

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochelluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 2492613
Date Received :Aug 29, 2024
Date Reported :Sep 06, 2024
Report Number :3080671-1

Page 1 of 1

Sample Number : 2492613-7
Sample Description : Vibration
Location : Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Sampled Date : Aug 24 - Aug 25, 2024
Sampled by : Thanit Janjop

| Equipment Data | | | | | | | | | |
|----------------|-------------|------------|------------|--|--|--|--|--|--|
| Description | Data Logger | Geophone | Microphone | | | | | | |
| Brand | Vibrolock | Vibrolock | - | | | | | | |
| Model | V901 | V901 | - | | | | | | |
| S/N | 1618 | 1618 | - | | | | | | |
| Sensitivity | - | 0.254 mm/s | - | | | | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Aug 24, 2024 | 01:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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MM-N12

Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochelluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

| | |
|---------------------------|--|
| Sample Number | 24128649-3 |
| Sample Description | Vibration |
| Location | Ban Khao Kham (GPS 47Q 06'58S0, 180648S) |
| Sampled Date | Nov 22 - Nov 23, 2024 |
| Sampled by | Jirayut Kasemsuk |

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | Vibrolock | | - | | | |
| Model | | V901 | | V901 | | - | | | |
| S/N | | 1617 | | 1617 | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 22, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity - PD = Peak Displacement - ND = Not Detect
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochelluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

| | |
|---------------------------|---|
| Sample Number | 24128649-2 |
| Sample Description | Vibration |
| Location | Ban Khao Mor (GPS 47Q 06'5703, 1804307) |
| Sampled Date | Nov 18 - Nov 19, 2024 |
| Sampled by | Jirayut Kasemsuk |

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | Vibrolock | | - | | | |
| Model | | V901 | | V901 | | - | | | |
| S/N | | 1617 | | 1617 | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 18, 2024 | 12:15 PM | 2.630 | 50.000 | 0.020 | 1.200 | 31.300 | 0.016 | 1.950 | 8.060 | 0.025 | 115 |
| Max | | 2.630 | 50.00 | 0.020 | 1.200 | 31.30 | 0.016 | 1.950 | 8.06 | 0.025 | 115 |
| Standard | | ≤ 50.8 | - | ≤ 0.20 | ≤ 40.2 | - | ≤ 0.20 | ≤ 12.7 | - | ≤ 0.23 | - |

Remark : - PPV = Peak Particle Velocity - PD = Peak Displacement
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheuluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

| | |
|---------------------------|--|
| Sample Number | 24128649-5 |
| Sample Description | Vibration |
| Location | Ban Nong Sang (GPS 47Q 0678387, 1805733) |
| Sampled Date | Nov 22 - Nov 23, 2024 |
| Sampled by | Jirayut Kasemsuk |

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrotek | | V901 | | - | | | |
| Model | | 1822 | | 1822 | | - | | | |
| S/N | | - | | - | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 22, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheuluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

| | |
|---------------------------|--|
| Sample Number | 24128649-4 |
| Sample Description | Vibration |
| Location | Ban Nong Ra Man (GPS 47Q 0674684, 1802590) |
| Sampled Date | Nov 18 - Nov 19, 2024 |
| Sampled by | Jirayut Kasemsuk |

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrotek | | V901 | | - | | | |
| Model | | 1618 | | 1618 | | - | | | |
| S/N | | - | | - | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 18, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochelluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

| | |
|---------------------------|---|
| Sample Number | 24128649-7 |
| Sample Description | Vibration |
| Location | Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193) |
| Sampled Date | Nov 25 - Nov 26, 2024 |
| Sampled by | Jirayut Kasemsuk |

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | Vibrolock | | - | | | |
| Model | | V901 | | V901 | | - | | | |
| S/N | | 1618 | | 1618 | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 26, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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Analysis / Test Report

Client : Alara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochelluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 47581
Project Name : Air Test
Project Location :
Lot ID : 24128649
Date Received :Nov 27, 2024
Date Reported :Dec 04, 2024
Report Number :3161629-1

Page 1 of 1

| | |
|---------------------------|---|
| Sample Number | 24128649-6 |
| Sample Description | Vibration |
| Location | Ban Tung Thong (GPS 47Q 0674687, 1805768) |
| Sampled Date | Nov 25 - Nov 26, 2024 |
| Sampled by | Jirayut Kasemsuk |

| Equipment Data | | | | | | | | | |
|----------------|--|-------------|--|------------|--|------------|--|--|--|
| Description | | Data Logger | | Geophone | | Microphone | | | |
| Brand | | Vibrolock | | Vibrolock | | - | | | |
| Model | | V901 | | V901 | | - | | | |
| S/N | | 1617 | | 1617 | | - | | | |
| Sensitivity | | - | | 0.254 mm/s | | - | | | |

| Date | Time | Transverse | | | Vertical | | | Longitudinal | | | Air Blast Pressure (dB) |
|--------------|----------|------------|----------------|---------|------------|----------------|---------|--------------|----------------|---------|-------------------------|
| | | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | PPV (mm/s) | Frequency (Hz) | PD (mm) | |
| Nov 26, 2024 | 12:15 PM | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Max | | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.000 | 0.000 | 0.00 | 0.000 | 0.0 |
| Standard | | - | - | - | - | - | - | - | - | - | - |

Remark : - PPV = Peak Particle Velocity
Standard (s) : Notification of the Ministry of Natural Resources and Environmental, dated November 7, B.E. 2548 (2005).

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CERTIFICATE OF ANALYSIS

| | | | |
|-----------|--|-------------------------|-----------------------|
| Client | Akara Resources Public Co., Ltd. | ALS Lot No. | 2488345 |
| Contact | Yaowanud Chandung | Date Samples Received | Aug 07, 2024 04:01 PM |
| Address | 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Pichit Thailand 66230 | Issue Date | Aug 22, 2024 06:02 PM |
| Email | yaowanud@akararesources.com | Quote number | Q2352889 |
| | | Project | CHATREE |
| Telephone | 0-5661-4500 | No. of samples received | 25 |
| Facsimile | 0-5661-4190 | No. of samples analysed | 25 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

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Page : 1 of 9

ALS Lot No. : 2488345
Client : Akara Resources Public Co., Ltd.
Project : CHATREE



Analytical Results

| Client sample ID | | | SW6708ST1 | SW6708ST2 | SW6708ST8 | SW6708ST9 | SW6708ST10 | SW6708ST11 | SW6708ST13 |
|--|--------|------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488345-1 | 2488345-2 | 2488345-3 | 2488345-4 | 2488345-5 | 2488345-6 | 2488345-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 116 | 284 | 1364 | 3880 | 1740 | 400 | 115 |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | 15 | 7 | <5 | <5 | <5 | <5 | 10 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 78 | 183 | 1094 | 3024 | 1497 | 321 | 84 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 76 | 18 | 20 | 96 | 23 | 86 | 71 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 76 | 18 | 20 | 96 | 23 | 86 | 71 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | 199 | 1204 | 2875 | 1323 | 273 | 49.9 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 3.0 | 13.0 | 23.2 | 2.3 | 2.6 | 2.7 | 2.3 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 22.6 | 35.8 | 168 | 595 | 324 | 45.8 | 21.6 |
| Magnesium | 0.10 | mg/L | 5.30 | 22.8 | 164 | 374 | 167 | 50.2 | 7.18 |
| Potassium | 0.10 | mg/L | 1.35 | 1.15 | 6.07 | 11.7 | 10.9 | 6.66 | 1.42 |
| Sodium | 0.10 | mg/L | 8.03 | 9.53 | 89.3 | 27.8 | 16.1 | 8.86 | 12.1 |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | 0.001 | <0.001 | 0.001 | <0.001 | 0.001 | 0.001 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | 0.002 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 |
| Iron | 0.05 | mg/L | 0.96 | 0.54 | 0.12 | <0.05 | 0.10 | 0.15 | 0.73 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.13 | 0.24 | 0.39 | 0.05 | 0.52 | 0.09 | 0.12 |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

LOR = Limit of reporting

Approved by

Senior Manager

MM-N12

u.10/55



Analytical Results

| Client sample ID | | | SW6708ST1 | SW6708ST2 | SW6708ST8 | SW6708ST9 | SW6708ST10 | SW6708ST11 | SW6708ST13 |
|------------------------------------|------|-------|-----------|-----------|-----------|-----------|------------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488345-1 | 2488345-2 | 2488345-3 | 2488345-4 | 2488345-5 | 2488345-6 | 2488345-7 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 0.62 | 6.79 | 0.70 | 1.40 | 6.01 | 0.59 | 0.01 |
| Total Anions | 0.01 | mEq/L | 1.32 | 4.70 | 25.54 | 60.25 | 27.43 | 7.05 | 2.24 |
| Total Cations | 0.01 | mEq/L | 1.95 | 4.11 | 25.90 | 61.96 | 30.93 | 6.97 | 2.23 |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 3.88 | 4.83 | 3.32 | 0.94 | 1.51 | 5.91 | 4.41 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 35 | 8.2 | 1.6 | 1.3 | 1.8 | 3.9 | 15 |

LOR = Limit of reporting

Approved by _____



Analytical Results

| Client sample ID | | | SW6708ST14 | SW6708ST16 | SW6708ST17 | SW6708ST18 | SW6708ST20 | SW6708ST21 | SW6708ST22 |
|---|--------|------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488345-8 | 2488345-9 | 2488345-10 | 2488345-11 | 2488345-12 | 2488345-13 | 2488345-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 87 | 119 | 984 | 764 | 1976 | 1444 | 130 |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | 8 | 33 | <5 | 10 | 6 | <5 | 30 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 68 | 87 | 750 | 565 | 1745 | 1269 | 64 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 66 | 81 | 55 | 76 | 20 | 18 | 91 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 66 | 81 | 55 | 76 | 20 | 18 | 91 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | <1.0 | 810 | 531 | 1640 | 1211 | <1.0 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.1 | 2.8 | 10.3 | 4.6 | 2.4 | 3.0 | 1.9 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 18.7 | 25.3 | 145 | 94.1 | 373 | 272 | 16.5 |
| Magnesium | 0.10 | mg/L | 5.07 | 5.77 | 94.8 | 80.3 | 197 | 151 | 5.62 |
| Potassium | 0.10 | mg/L | 1.51 | 1.54 | 4.20 | 8.15 | 10.0 | 11.4 | 0.87 |
| Sodium | 0.10 | mg/L | 8.44 | 9.30 | 40.0 | 19.8 | 20.1 | 22.9 | 17.7 |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | 0.001 | <0.001 | 0.001 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | 0.002 | 0.003 | <0.001 | <0.001 | 0.001 | 0.002 | 0.004 |
| Iron | 0.05 | mg/L | 0.62 | 1.57 | 0.23 | 0.12 | 0.06 | <0.05 | 2.18 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.03 | 0.11 | 0.40 | 0.38 | 0.77 | 0.14 | 0.15 |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

LOR = Limit of reporting

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Senior Manager



Analytical Results

| Client sample ID | | | SW6708ST14 | SW6708ST16 | SW6708ST17 | SW6708ST18 | SW6708ST20 | SW6708ST21 | SW6708ST22 |
|------------------------------------|------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488345-8 | 2488345-9 | 2488345-10 | 2488345-11 | 2488345-12 | 2488345-13 | 2488345-14 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 0.62 | 0.78 | 2.48 | 0.69 | 3.03 | 4.27 | 0.54 |
| Total Anions | 0.01 | mEq/L | 1.13 | 1.40 | 17.72 | 12.20 | 33.84 | 25.06 | 1.54 |
| Total Cations | 0.01 | mEq/L | 1.76 | 2.18 | 16.86 | 12.37 | 35.95 | 27.30 | 2.08 |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 4.66 | 3.53 | 4.91 | 6.75 | 1.57 | 2.01 | 4.96 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 15 | 60 | 2.2 | 13 | 4.1 | 2.2 | 60 |

LOR = Limit of reporting

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Analytical Results

| Client sample ID | | | SW6708ST23 | SW6708ST27 | SW6708ST28 | SW6708ST30 | SW6708ST31 | SW6708ST33 | SW6708ST36 |
|---|--------|------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 5-Aug-24 | 6-Aug-24 |
| Compound | LOR | Unit | 2488345-15 | 2488345-16 | 2488345-17 | 2488345-18 | 2488345-19 | 2488345-20 | 2488345-21 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 102 | 1124 | 206 | 2452 | 1864 | 1412 | 1764 |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 71 | 990 | 185 | 2246 | 1553 | 1238 | 1369 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 71 | 81 | 76 | 18 | 20 | 5 | 5 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 71 | 81 | 76 | 18 | 20 | 5 | 5 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | 849 | 107 | 1819 | 1427 | 1216 | 1437 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.4 | 2.7 | 3.7 | 2.3 | 2.3 | 2.1 | 10.6 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 18.7 | 227 | 43.8 | 401 | 350 | 288 | 219 |
| Magnesium | 0.10 | mg/L | 5.96 | 106 | 18.4 | 301 | 165 | 132 | 200 |
| Potassium | 0.10 | mg/L | 1.21 | 7.92 | 4.20 | 11.3 | 9.80 | 10.6 | 3.34 |
| Sodium | 0.10 | mg/L | 11.8 | 8.46 | 4.64 | 15.0 | 18.8 | 12.2 | 31.4 |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | 0.002 | 0.003 | 0.001 | <0.001 | <0.001 | <0.001 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.006 | 0.006 |
| Copper | 0.001 | mg/L | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 |
| Iron | 0.05 | mg/L | 0.58 | 0.09 | 0.20 | 0.05 | <0.05 | <0.05 | 0.06 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.07 | 0.23 | 0.02 | 0.13 | 0.07 | 1.95 | 2.10 |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

LOR = Limit of reporting

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 Senior Manager



Analytical Results

| Client sample ID | | | SW6708ST23 | SW6708ST27 | SW6708ST28 | SW6708ST30 | SW6708ST31 | SW6708ST33 | SW6708ST36 |
|------------------------------------|------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 5-Aug-24 | 6-Aug-24 |
| Compound | LOR | Unit | 2488345-15 | 2488345-16 | 2488345-17 | 2488345-18 | 2488345-19 | 2488345-20 | 2488345-21 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 0.74 | 4.86 | 6.43 | 9.97 | 4.26 | 2.20 | 1.52 |
| Total Anions | 0.01 | mEq/L | 1.23 | 18.70 | 3.53 | 37.44 | 29.49 | 24.93 | 29.69 |
| Total Cations | 0.01 | mEq/L | 1.97 | 20.61 | 4.01 | 45.73 | 32.11 | 26.05 | 28.80 |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 4.62 | 2.80 | 5.44 | 1.94 | 2.23 | 1.59 | 2.54 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 12 | 2.1 | 4.9 | 0.90 | 1.1 | 0.95 | 1.9 |

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Analytical Results

| Client sample ID | | | SW6708ST37 | SW6708ST39 | SW6708ST40 | SW6708ST41 | ---- | ---- | ---- |
|---|--------|------|------------|------------|------------|------------|------|------|------|
| Client sampling date / time | | | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 6-Aug-24 | ---- | ---- | ---- |
| Compound | LOR | Unit | 2488345-22 | 2488345-23 | 2488345-24 | 2488345-25 | ---- | ---- | ---- |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 588 | 760 | 948 | 764 | ---- | ---- | ---- |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | <5 | 5 | <5 | <5 | ---- | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 425 | 561 | 776 | 701 | ---- | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 15 | 66 | 10 | 20 | ---- | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 15 | 66 | 10 | 20 | ---- | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 454 | 550 | 739 | 586 | ---- | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.3 | 4.1 | 1.5 | 2.0 | ---- | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 108 | 139 | 183 | 132 | ---- | ---- | ---- |
| Magnesium | 0.10 | mg/L | 37.8 | 52.0 | 77.9 | 90.0 | ---- | ---- | ---- |
| Potassium | 0.10 | mg/L | 2.22 | 7.32 | 7.51 | 4.04 | ---- | ---- | ---- |
| Sodium | 0.10 | mg/L | 13.7 | 8.91 | 8.59 | 13.4 | ---- | ---- | ---- |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.002 | 0.002 | 0.001 | 0.001 | ---- | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Copper | 0.001 | mg/L | <0.001 | 0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Iron | 0.05 | mg/L | 0.06 | 0.10 | <0.05 | 0.09 | ---- | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.02 | 0.15 | 0.04 | 0.26 | ---- | ---- | ---- |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |

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Analytical Results

| Client sample ID | | | SW6708ST37 | SW6708ST39 | SW6708ST40 | SW6708ST41 | ---- | ---- | ---- |
|------------------------------------|------|-------|------------|------------|------------|------------|------|------|------|
| Client sampling date / time | | | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 6-Aug-24 | ---- | ---- | ---- |
| Compound | LOR | Unit | 2488345-22 | 2488345-23 | 2488345-24 | 2488345-25 | ---- | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 2.19 | 2.50 | 2.62 | 8.72 | ---- | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 9.55 | 12.40 | 15.27 | 12.34 | ---- | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 9.14 | 11.79 | 16.09 | 14.70 | ---- | ---- | ---- |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 2.30 | 4.88 | 2.19 | 4.94 | ---- | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 2.1 | 6.1 | 1.6 | 3.1 | ---- | ---- | ---- |

LOR = Limit of reporting

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Page : 9 of 9



CERTIFICATE OF ANALYSIS

| | | | |
|------------------------|--|--------------------------------|-----------------------|
| Client | Akara Resources Public Co., Ltd. | ALS Lot No. | 24127007 |
| Contact Address | Yaowanud Chandung 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230 | Date Samples Received | Nov 14, 2024 02:00 PM |
| Email | yaowanud@akararesources.com | Issue Date | Nov 28, 2024 02:59 PM |
| Telephone | 0-5661-4500 | Quote number | Q2352889 |
| Facsimile | 0-5661-4190 | Project | CHATREE |
| | | No. of samples received | 25 |
| | | No. of samples analysed | 25 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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.



Analytical Results

| Client sample ID Client sampling date / time | | | SW6711ST1 12-Nov-24 | SW6711ST2 12-Nov-24 | SW6711ST8 13-Nov-24 | SW6711ST9 12-Nov-24 | SW6711ST10 12-Nov-24 | SW6711ST11 12-Nov-24 | SW6711ST13 11-Nov-24 |
|---|--------|------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 24127007-1 | 24127007-2 | 24127007-3 | 24127007-4 | 24127007-5 | 24127007-6 | 24127007-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 134 | 286 | 1772 | 3936 | 1540 | 364 | 380 |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | 10 | 9 | <5 | <5 | <5 | 6 | <5 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 100 | 204 | 1301 | 2784 | 1421 | 257 | 261 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 111 | 116 | 51 | 96 | 51 | 96 | 132 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 111 | 116 | 51 | 96 | 51 | 96 | 132 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | 188 | 1453 | 2552 | 1286 | 235 | 222 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 5.4 | 8.3 | 28.8 | 2.4 | 2.6 | 2.5 | 7.7 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 28.1 | 45.6 | 206 | 551 | 305 | 35.4 | 61.7 |
| Magnesium | 0.10 | mg/L | 7.29 | 22.0 | 191 | 342 | 166 | 41.0 | 25.9 |
| Potassium | 0.10 | mg/L | 4.68 | 6.52 | 5.17 | 11.9 | 10.7 | 5.69 | 5.97 |
| Sodium | 0.10 | mg/L | 13.0 | 18.5 | 143 | 27.2 | 16.2 | 6.79 | 20.5 |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | 0.002 | <0.001 | 0.001 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.008 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | 0.001 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | 0.58 | 0.67 | 0.40 | <0.05 | 0.07 | 0.06 | 0.10 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 1.41 | 0.46 | 2.52 | 0.04 | 0.43 | 0.13 | 0.44 |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

LOR = Limit of reporting

Approved by

Senior Manager



Analytical Results

| Client sample ID Client sampling date / time | | | SW6711ST1 12-Nov-24 | SW6711ST2 12-Nov-24 | SW6711ST8 13-Nov-24 | SW6711ST9 12-Nov-24 | SW6711ST10 12-Nov-24 | SW6711ST11 12-Nov-24 | SW6711ST13 11-Nov-24 |
|---|------|-------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 24127007-1 | 24127007-2 | 24127007-3 | 24127007-4 | 24127007-5 | 24127007-6 | 24127007-7 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 0.71 | 8.41 | 1.68 | 3.13 | 4.69 | 7.20 | 4.91 |
| Total Anions | 0.01 | mEq/L | 1.98 | 5.98 | 31.28 | 53.68 | 27.13 | 6.44 | 6.90 |
| Total Cations | 0.01 | mEq/L | 2.69 | 5.05 | 32.35 | 57.14 | 29.80 | 5.58 | 6.26 |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 5.58 | 7.07 | 1.19 | 1.02 | 2.04 | 5.84 | 6.80 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 3.5 | 4.6 | 3.7 | 0.70 | 1.5 | 3.9 | 3.6 |

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Analytical Results

| Client sample ID Client sampling date / time | | | SW6711ST14 11-Nov-24 | SW6711ST16 11-Nov-24 | SW6711ST17 13-Nov-24 | SW6711ST18 13-Nov-24 | SW6711ST20 13-Nov-24 | SW6711ST21 12-Nov-24 | SW6711ST22 11-Nov-24 |
|---|--------|------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 24127007-8 | 24127007-9 | 24127007-10 | 24127007-11 | 24127007-12 | 24127007-13 | 24127007-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 136 | 171 | 796 | 632 | 1744 | 1392 | 192 |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | 6 | 11 | <5 | <5 | 5 | <5 | <5 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 95 | 118 | 627 | 490 | 1585 | 1202 | 136 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 101 | 116 | 66 | 91 | 23 | 51 | 152 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 101 | 116 | 66 | 91 | 23 | 51 | 152 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | 13.6 | 591 | 485 | 1476 | 1177 | <1.0 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 5.4 | 6.4 | 6.2 | 4.6 | 2.4 | 2.5 | 4.9 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 26.2 | 32.7 | 119 | 87.5 | 367 | 261 | 37.9 |
| Magnesium | 0.10 | mg/L | 7.26 | 8.75 | 80.1 | 66.1 | 168 | 144 | 10.1 |
| Potassium | 0.10 | mg/L | 3.74 | 3.27 | 3.57 | 8.54 | 9.78 | 11.1 | 3.22 |
| Sodium | 0.10 | mg/L | 10.3 | 15.9 | 34.5 | 16.4 | 21.3 | 24.4 | 23.3 |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.002 | 0.002 | <0.001 | 0.001 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | 0.001 | 0.002 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | 0.24 | 0.80 | 0.16 | <0.05 | 0.06 | <0.05 | 0.35 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.16 | 1.18 | 0.15 | 0.29 | 0.47 | 0.52 | 1.10 |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

LOR = Limit of reporting

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Senior Manager



Analytical Results

| Client sample ID Client sampling date / time | | | SW6711ST14 11-Nov-24 | SW6711ST16 11-Nov-24 | SW6711ST17 13-Nov-24 | SW6711ST18 13-Nov-24 | SW6711ST20 13-Nov-24 | SW6711ST21 12-Nov-24 | SW6711ST22 11-Nov-24 |
|---|------|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 24127007-8 | 24127007-9 | 24127007-10 | 24127007-11 | 24127007-12 | 24127007-13 | 24127007-14 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 0.64 | 13.91 | 2.96 | 3.56 | 4.38 | 2.53 | 18.43 |
| Total Anions | 0.01 | mEq/L | 1.81 | 2.36 | 13.31 | 11.52 | 30.53 | 24.90 | 2.63 |
| Total Cations | 0.01 | mEq/L | 2.45 | 3.13 | 14.13 | 10.73 | 33.33 | 26.20 | 3.82 |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 4.97 | 5.77 | 2.63 | 6.85 | 2.01 | 1.85 | 3.48 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 3.0 | 4.7 | 2.2 | 4.5 | 2.9 | 2.0 | 2.5 |

LOR = Limit of reporting

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Analytical Results

| Client sample ID Client sampling date / time | | | SW6711ST23 | SW6711ST27 | SW6711ST28 | SW6711ST30 | SW6711ST31 | SW6711ST33 | SW6711ST36 |
|---|--------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 11-Nov-24 | 13-Nov-24 | 12-Nov-24 | 12-Nov-24 | 11-Nov-24 | 11-Nov-24 | 13-Nov-24 |
| Compound | LOR | Unit | 24127007-15 | 24127007-16 | 24127007-17 | 24127007-18 | 24127007-19 | 24127007-20 | 24127007-21 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 312 | 912 | 114 | 3104 | 1460 | 1172 | 1652 |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | <5 | <5 | 22 | <5 | <5 | <5 | <5 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 231 | 954 | 210 | 2196 | 1441 | 1166 | 1481 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 142 | 111 | 91 | 18 | 51 | 3 | 5 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 142 | 111 | 91 | 18 | 51 | 3 | 5 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 169 | 895 | 158 | 2106 | 1428 | 1165 | 1479 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 9.7 | 2.2 | 4.3 | 2.4 | 2.5 | 2.3 | 5.5 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 54.3 | 206 | 46.5 | 386 | 326 | 269 | 240 |
| Magnesium | 0.10 | mg/L | 23.1 | 118 | 22.9 | 297 | 171 | 126 | 214 |
| Potassium | 0.10 | mg/L | 6.72 | 6.37 | 4.34 | 11.3 | 10.8 | 10.3 | 3.11 |
| Sodium | 0.10 | mg/L | 27.0 | 9.25 | 5.25 | 16.1 | 20.9 | 12.1 | 32.9 |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.002 | 0.001 | 0.004 | <0.001 | <0.001 | <0.001 | <0.001 |
| Cobalt | 0.001 | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 | 0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | 0.61 | 0.09 | 0.08 | 0.07 | <0.05 | 0.07 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 1.78 | 0.11 | 0.17 | 0.12 | 0.08 | 0.48 | 0.66 |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |

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Analytical Results

| Client sample ID Client sampling date / time | | | SW6711ST23 | SW6711ST27 | SW6711ST28 | SW6711ST30 | SW6711ST31 | SW6711ST33 | SW6711ST36 |
|---|------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | | | 11-Nov-24 | 13-Nov-24 | 12-Nov-24 | 12-Nov-24 | 11-Nov-24 | 11-Nov-24 | 13-Nov-24 |
| Compound | LOR | Unit | 24127007-15 | 24127007-16 | 24127007-17 | 24127007-18 | 24127007-19 | 24127007-20 | 24127007-21 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 0.73 | 1.04 | 2.97 | 1.59 | 2.52 | 1.46 | 1.11 |
| Total Anions | 0.01 | mEq/L | 6.05 | 20.14 | 4.83 | 43.31 | 30.01 | 23.86 | 30.39 |
| Total Cations | 0.01 | mEq/L | 5.96 | 20.57 | 4.55 | 44.71 | 31.56 | 24.56 | 31.07 |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 7.10 | 1.99 | 11.4 | 2.05 | 2.99 | 1.74 | 2.01 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 2.1 | 1.3 | 25 | 0.85 | 1.1 | 0.80 | 0.65 |

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Analytical Results

| Client sample ID | | | SW6711ST37 | SW6711ST39 | SW6711ST40 | SW6711ST41 | ---- | ---- | ---- |
|---|--------|------|-------------|-------------|-------------|-------------|------|------|------|
| Client sampling date / time | | | 13-Nov-24 | 13-Nov-24 | 11-Nov-24 | 12-Nov-24 | ---- | ---- | ---- |
| Compound | LOR | Unit | 24127007-22 | 24127007-23 | 24127007-24 | 24127007-25 | ---- | ---- | ---- |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 520 | 600 | 692 | 928 | ---- | ---- | ---- |
| EA025: Suspended Solids | | | | | | | | | |
| Total Suspended Solids | 5 | mg/L | <5 | 7 | <5 | <5 | ---- | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 455 | 523 | 515 | 834 | ---- | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 20 | 91 | 15 | 86 | ---- | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 20 | 91 | 15 | 86 | ---- | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 488 | 474 | 540 | 711 | ---- | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.7 | 5.2 | 1.8 | 2.3 | ---- | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 117 | 137 | 121 | 158 | ---- | ---- | ---- |
| Magnesium | 0.10 | mg/L | 39.8 | 44.0 | 51.4 | 106 | ---- | ---- | ---- |
| Potassium | 0.10 | mg/L | 2.52 | 10.8 | 6.22 | 4.90 | ---- | ---- | ---- |
| Sodium | 0.10 | mg/L | 13.7 | 8.81 | 6.15 | 14.8 | ---- | ---- | ---- |
| EG020T: Total Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.002 | 0.004 | 0.002 | 0.002 | ---- | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Copper | 0.001 | mg/L | <0.001 | 0.005 | <0.001 | <0.001 | ---- | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | 0.15 | <0.05 | <0.05 | ---- | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.05 | 0.39 | 0.04 | 0.38 | ---- | ---- | ---- |
| EG035T: Total Recoverable Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |

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Analytical Results

| Client sample ID | | | SW6711ST37 | SW6711ST39 | SW6711ST40 | SW6711ST41 | ---- | ---- | ---- |
|------------------------------------|------|-------|-------------|-------------|-------------|-------------|------|------|------|
| Client sampling date / time | | | 13-Nov-24 | 13-Nov-24 | 11-Nov-24 | 12-Nov-24 | ---- | ---- | ---- |
| Compound | LOR | Unit | 24127007-22 | 24127007-23 | 24127007-24 | 24127007-25 | ---- | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | 0 | % | 2.92 | 0.89 | 2.75 | 4.39 | ---- | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 10.34 | 11.30 | 11.32 | 15.97 | ---- | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 9.75 | 11.10 | 10.71 | 17.44 | ---- | ---- | ---- |
| EP005: Total Organic Carbon | | | | | | | | | |
| Total Organic Carbon | 0.1 | mg/L | 2.01 | 5.15 | 2.38 | 4.87 | ---- | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 1.3 | 3.9 | 1.1 | 2.4 | ---- | ---- | ---- |

LOR = Limit of reporting

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CERTIFICATE OF ANALYSIS

Client Akara Resources Public Co., Ltd.

ALS Lot No.

2488350

Contact Yaowanud Chandung
Address 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230

Date Samples Received Aug 07, 2024 04:01 PM
Issue Date Aug 19, 2024 07:36 PM

Email yaowanud@akararesources.com

Quote number Q2352889
Project CHATREE

Telephone 0-5661-4500
Facsimile 0-5661-4190

No. of samples received 25
No. of samples analysed 25

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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.

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Page : 1 of 5

ALS Lot No. : 2488350

Client : Akara Resources Public Co., Ltd.

Project : CHATREE



Analytical Results

| Client sample ID | | | GW6708ST4 | GW6708ST5 | GW6708ST7 | GW6708ST8 | GW6708ST9 | GW6708ST10 | GW6708ST11 |
|------------------------------------|--------|-------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Client sampling date / time | | | 5-Aug-24 | 6-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488350-1 | 2488350-2 | 2488350-3 | 2488350-4 | 2488350-5 | 2488350-6 | 2488350-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 294 | 382 | 384 | 128 | 194 | 324 | 169 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 244 | 309 | 252 | 69 | 135 | 197 | 99 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 227 | 312 | 307 | 71 | 116 | 222 | 91 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 227 | 312 | 307 | 71 | 116 | 222 | 91 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 62.1 | <1.0 | 46.8 | <1.0 | 31.8 | 60.6 | 18.8 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 12.5 | 1.2 | 23.3 | 4.1 | 10.6 | 13.5 | 1.9 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 71.5 | 108 | 64.1 | 23.8 | 34.3 | 55.0 | 27.0 |
| Magnesium | 0.10 | mg/L | 16.1 | 9.39 | 22.4 | 2.41 | 12.1 | 14.5 | 7.61 |
| Potassium | 0.10 | mg/L | 0.36 | 0.54 | 0.36 | 4.82 | 0.30 | 0.38 | 1.32 |
| Sodium | 0.10 | mg/L | 29.5 | 15.8 | 72.0 | 6.83 | 17.2 | 47.6 | 14.8 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.004 | 0.001 | 0.004 | 0.004 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.04 | 0.46 | 0.04 | 0.22 | 0.11 | 0.001 | 0.18 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 7.32 | 14.26 | 10.32 | 0.53 | 9.75 | 6.83 | 0.73 |
| Total Anions | 0.01 | mEq/L | 5.34 | 5.16 | 6.65 | 1.27 | 2.85 | 5.25 | 1.92 |
| Total Cations | 0.01 | mEq/L | 6.18 | 6.87 | 8.18 | 1.81 | 3.46 | 6.02 | 2.65 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 0.60 | 1.0 | 0.50 | 110 | 0.35 | 0.15 | 29 |

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Page : 2 of 5



Analytical Results

| Client sample ID | | | GW6708ST12 | GW6708ST13 | GW6708ST15 | GW6708ST17 | GW6708ST18 | GW6708ST20 | GW6708ST21 |
|---|--------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 5-Aug-24 | 6-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488350-8 | 2488350-9 | 2488350-10 | 2488350-11 | 2488350-12 | 2488350-13 | 2488350-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 228 | 258 | 242 | 808 | 436 | 326 | 280 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 119 | 159 | 175 | 578 | 273 | 238 | 241 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 136 | 161 | 111 | 418 | 227 | 202 | 217 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 136 | 161 | 111 | 418 | 227 | 202 | 217 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 6.0 | 7.4 | 74.1 | 233 | 161 | <1.0 | 51.0 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.7 | 17.4 | 17.9 | 95.2 | 49.0 | 36.4 | 10.6 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 39.6 | 47.1 | 56.9 | 150 | 78.9 | 65.2 | 70.0 |
| Magnesium | 0.10 | mg/L | 4.90 | 10.1 | 8.03 | 49.1 | 18.5 | 18.2 | 16.0 |
| Potassium | 0.10 | mg/L | 0.72 | 0.53 | 7.02 | 2.85 | 1.10 | 1.04 | 0.34 |
| Sodium | 0.10 | mg/L | 15.0 | 19.6 | 9.77 | 99.3 | 82.9 | 14.2 | 23.2 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.02 | <0.001 | 0.001 | 0.001 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | 0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.98 | 0.25 | 1.09 | <0.001 | <0.001 | 0.46 | 0.001 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 11.93 | 10.42 | 3.46 | 5.39 | 4.11 | 10.96 | 8.72 |
| Total Anions | 0.01 | mEq/L | 2.40 | 3.28 | 3.83 | 14.29 | 8.38 | 4.33 | 4.89 |
| Total Cations | 0.01 | mEq/L | 3.05 | 4.05 | 4.11 | 15.92 | 9.10 | 5.40 | 5.83 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 0.30 | 1.6 | 25 | 17 | 0.75 | 1.2 | 4.7 |

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Analytical Results

| Client sample ID | | | RG67086672 | RG6708690 | RG6708691 | RG6708692 | RG6708693 | RG67084017 | RG67084018 |
|---|--------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 6-Aug-24 | 5-Aug-24 | 5-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 6-Aug-24 |
| Compound | LOR | Unit | 2488350-15 | 2488350-16 | 2488350-17 | 2488350-18 | 2488350-19 | 2488350-20 | 2488350-21 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 196 | 334 | 284 | 182 | 312 | 492 | 340 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 133 | 280 | 221 | 124 | 273 | 351 | 271 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 121 | 297 | 277 | 146 | 202 | 227 | 247 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 121 | 297 | 277 | 146 | 202 | 227 | 247 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 44.7 | <1.0 | <1.0 | <1.0 | 68.9 | 161 | 53.7 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.7 | 1.6 | 3.0 | <1.0 | 1.3 | 55.5 | 11.8 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 32.4 | 86.3 | 57.2 | 30.6 | 83.1 | 103 | 88.0 |
| Magnesium | 0.10 | mg/L | 12.7 | 15.6 | 19.0 | 11.4 | 16.0 | 22.8 | 12.4 |
| Potassium | 0.10 | mg/L | 3.93 | 0.56 | 11.8 | 0.23 | 0.35 | 1.18 | 3.64 |
| Sodium | 0.10 | mg/L | 15.9 | 22.7 | 27.3 | 20.3 | 10.8 | 54.1 | 26.1 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | 0.003 | 0.001 | 0.002 | 0.002 | <0.001 | 0.004 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.003 | <0.001 | 0.006 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.06 | 0.42 | 1.85 | 0.23 | 3.39 | 0.89 | 0.39 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 8.01 | 14.52 | 12.13 | 16.26 | 11.23 | 4.57 | 9.62 |
| Total Anions | 0.01 | mEq/L | 2.94 | 4.92 | 4.63 | 2.42 | 4.74 | 8.57 | 5.48 |
| Total Cations | 0.01 | mEq/L | 3.45 | 6.59 | 5.91 | 3.36 | 5.94 | 9.40 | 6.64 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 3.6 | 1.7 | 75 | 3.2 | 190 | 5.0 | 15 |

Approved by

Senior Manager



Analytical Results

| Client sample ID | | | RG67084020 | RG67084021 | RG67084024 | RG67084025 | ---- | ---- | ---- |
|------------------------------------|--------|-------|------------|------------|------------|------------|----------|----------|----------|
| Client sampling date / time | | | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488350-22 | 2488350-23 | 2488350-24 | 2488350-25 | ---- | ---- | ---- |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 452 | 206 | 117 | 134 | ---- | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 146 | 156 | 64 | 93 | ---- | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 338 | 136 | 66 | 91 | ---- | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 338 | 136 | 66 | 91 | ---- | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 79.0 | <1.0 | 30.1 | <1.0 | ---- | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 16.5 | 4.6 | 4.2 | 1.9 | ---- | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 27.1 | 50.2 | 17.9 | 28.2 | ---- | ---- | ---- |
| Magnesium | 0.10 | mg/L | 18.9 | 7.33 | 4.54 | 5.45 | ---- | ---- | ---- |
| Potassium | 0.10 | mg/L | 0.63 | 9.06 | 1.57 | 2.17 | ---- | ---- | ---- |
| Sodium | 0.10 | mg/L | 157 | 6.58 | 12.3 | 9.58 | ---- | ---- | ---- |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.003 | <0.001 | <0.001 | ---- | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.001 | <0.001 | ---- | ---- | ---- |
| Copper | 0.001 | mg/L | 0.002 | 0.006 | <0.001 | 0.002 | ---- | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | 0.06 | <0.05 | <0.05 | ---- | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Manganese | 0.001 | mg/L | <0.001 | 0.02 | 0.73 | 0.01 | ---- | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 12.25 | 21.17 | 0.04 | 0.79 | ---- | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 7.61 | 2.36 | 1.81 | 1.54 | ---- | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 9.74 | 3.63 | 1.84 | 2.33 | ---- | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 60 | 39 | 5.0 | 70 | ---- | ---- | ---- |

Approved by _____

Senior Manager

Page : 5 of 5



CERTIFICATE OF ANALYSIS

Client Akara Resources Public Co., Ltd.

ALS Lot No.

2488413

Contact Yaowanud Chandung
Address 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230

Date Samples Received Aug 08, 2024 01:00 PM
Issue Date Aug 19, 2024 07:37 PM

Email yaowanud@akararesources.com

Quote number Q2352889
Project CHATREE

Telephone 0-5661-4500
Facsimile 0-5661-4190

No. of samples received 19
No. of samples analysed 19

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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.



Analytical Results

| Client sample ID | | | MS6708677 | MS6708678 | MS6708679 | MS67085993 | MS67085994 | MS67085997 | MS67085998 |
|------------------------------------|--------|-------|-----------|-----------|-----------|------------|------------|------------|------------|
| Client sampling date / time | | | 7-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 |
| Compound | LOR | Unit | 2488413-1 | 2488413-2 | 2488413-3 | 2488413-4 | 2488413-5 | 2488413-6 | 2488413-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 936 | 292 | 294 | 1844 | 2328 | 168 | 300 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 784 | 170 | 147 | 1501 | 1948 | 73 | 145 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 136 | 106 | 86 | 328 | 252 | 66 | 86 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 136 | 106 | 86 | 328 | 252 | 66 | 86 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 676 | 85.0 | 91.6 | 1336 | 1788 | 42.9 | 143 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 3.0 | 1.6 | 1.2 | 2.8 | 2.9 | 1.7 | 3.6 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 243 | 33.0 | 35.5 | 443 | 527 | 21.5 | 48.2 |
| Magnesium | 0.10 | mg/L | 45.7 | 21.4 | 14.3 | 96.4 | 153 | 4.67 | 5.97 |
| Potassium | 0.10 | mg/L | 8.00 | 0.38 | 0.91 | 5.24 | 1.94 | 1.09 | 0.51 |
| Sodium | 0.10 | mg/L | 28.6 | 15.3 | 14.6 | 51.0 | 58.1 | 12.9 | 29.6 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.003 | 0.001 | <0.001 | 0.002 | 0.003 | <0.001 | <0.001 |
| Cobalt | 0.001 | mg/L | 0.008 | <0.001 | 0.008 | <0.001 | <0.001 | <0.001 | 0.004 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.002 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | 0.58 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 2.43 | 0.03 | 0.59 | 1.07 | 0.14 | 0.11 | 0.16 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 3.66 | 7.47 | 4.37 | 0.50 | 1.01 | 0.05 | 2.56 |
| Total Anions | 0.01 | mEq/L | 16.09 | 3.51 | 3.30 | 32.70 | 40.67 | 2.00 | 4.42 |
| Total Cations | 0.01 | mEq/L | 17.32 | 4.08 | 3.61 | 32.37 | 41.49 | 2.05 | 4.20 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 80 | 40 | 110 | 10 | 9.4 | 3.5 | 70 |

Approved by

anayer



Analytical Results

| Client sample ID | | | MS67086081 | MS67086082 | MS67086083 | MS67086084 | MS67086647 | MS67086648 | MS67086651 |
|------------------------------------|--------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 6-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 |
| Compound | LOR | Unit | 2488413-8 | 2488413-9 | 2488413-10 | 2488413-11 | 2488413-12 | 2488413-13 | 2488413-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 492 | 1916 | 372 | 380 | 322 | 181 | 422 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 364 | 1433 | 267 | 255 | 228 | 109 | 343 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 23 | 141 | 267 | 307 | 161 | 96 | 202 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 23 | 141 | 267 | 307 | 161 | 96 | 202 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 367 | 1513 | 15.6 | 7.5 | 77.3 | 29.2 | 171 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.5 | 2.8 | 1.2 | 1.7 | 2.5 | 2.6 | 3.4 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 75.0 | 312 | 81.5 | 58.4 | 72.7 | 34.4 | 96.6 |
| Magnesium | 0.10 | mg/L | 42.8 | 159 | 15.4 | 26.6 | 11.3 | 5.73 | 24.6 |
| Potassium | 0.10 | mg/L | 2.29 | 4.40 | 0.58 | 0.14 | 2.70 | 1.43 | 4.59 |
| Sodium | 0.10 | mg/L | 11.0 | 89.2 | 24.6 | 28.6 | 10.6 | 6.11 | 10.9 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | 0.001 | 0.002 | 0.002 | <0.001 | <0.001 | 0.003 |
| Cobalt | 0.001 | mg/L | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.68 | 2.00 | 0.19 | 0.04 | 0.36 | 0.05 | 0.94 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 0.82 | 0.90 | 15.18 | 9.54 | 8.54 | 0.25 | 3.80 |
| Total Anions | 0.01 | mEq/L | 7.93 | 33.24 | 4.73 | 5.24 | 4.29 | 2.24 | 6.89 |
| Total Cations | 0.01 | mEq/L | 7.80 | 32.65 | 6.42 | 6.34 | 5.09 | 2.49 | 7.44 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 2.7 | 2.0 | 0.70 | 1.9 | 12 | 65 | 50 |

Approved by

Senior Manager



Analytical Results

| Client sample ID | | | MS67086652 | MS67086653 | MS67086654 | MS67086665 | MS67086666 | ---- | ---- |
|------------------------------------|--------|-------|------------|------------|------------|------------|------------|------|------|
| Client sampling date / time | | | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | 5-Aug-24 | ---- | ---- |
| Compound | LOR | Unit | 2488413-15 | 2488413-16 | 2488413-17 | 2488413-18 | 2488413-19 | ---- | ---- |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 492 | 904 | 198 | 110 | 174 | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 449 | 748 | 99 | 60 | 140 | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 343 | 96 | 66 | 60 | 126 | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 343 | 96 | 66 | 60 | 126 | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 106 | 650 | 64.5 | 23.9 | 35.2 | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 4.2 | 3.8 | 5.5 | 2.4 | 2.2 | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 125 | 143 | 8.60 | 18.1 | 44.3 | ---- | ---- |
| Magnesium | 0.10 | mg/L | 33.2 | 94.9 | 18.8 | 3.49 | 7.06 | ---- | ---- |
| Potassium | 0.10 | mg/L | 1.78 | 12.5 | 4.48 | 1.54 | 2.40 | ---- | ---- |
| Sodium | 0.10 | mg/L | 12.3 | 7.27 | 12.6 | 12.5 | 11.7 | ---- | ---- |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.003 | <0.001 | 0.004 | 0.001 | 0.002 | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.01 | <0.001 | <0.001 | ---- | ---- |
| Copper | 0.001 | mg/L | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.06 | 4.13 | 1.47 | 0.22 | <0.001 | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 9.55 | 2.16 | 0.09 | 0.23 | 8.33 | ---- | ---- |
| Total Anions | 0.01 | meq/L | 7.89 | 14.92 | 2.55 | 1.55 | 2.85 | ---- | ---- |
| Total Cations | 0.01 | meq/L | 9.55 | 15.58 | 2.64 | 1.78 | 3.36 | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 4.2 | 220 | 110 | 4.7 | 0.60 | ---- | ---- |

Approved by

Senior Manager

Page : 4 of 4



CERTIFICATE OF ANALYSIS

| | | | |
|------------------------|---|--|--|
| Client | Akara Resources Public Co., Ltd. | ALS Lot No. | 2488369 |
| Contact Address | Yaowanud Chandung 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Pichit Thailand 66230 | Date Samples Received Issue Date | Aug 09, 2024 01:00 PM Aug 19, 2024 07:37 PM |
| Email | yaowanud@akararesources.com | Quote number Project | Q2352889 CHATREE |
| Telephone Facsimile | 0-5661-4500 0-5661-4190 | No. of samples received No. of samples analysed | 30 30 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

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Analytical Results

| Client sample ID Client sampling date / time | | | MS67085991 7-Aug-24 | MS67085992 7-Aug-24 | TSF6708663 7-Aug-24 | TSF6708699 7-Aug-24 | TSF67081991 7-Aug-24 | TSF67081992 7-Aug-24 | TSF67085350 7-Aug-24 |
|---|--------|-------|------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 2488369-1 | 2488369-2 | 2488369-3 | 2488369-4 | 2488369-5 | 2488369-6 | 2488369-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 180 | 277 | 1068 | 1848 | 704 | 836 | 932 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 133 | 209 | 785 | 1231 | 582 | 586 | 616 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 131 | 197 | 323 | 358 | 459 | 549 | 252 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 131 | 197 | 323 | 358 | 459 | 549 | 252 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 27.7 | 45.0 | 489 | 918 | 208 | 235 | 498 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 4.4 | 2.0 | 32.3 | 26.0 | 5.6 | 10.1 | 10.7 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 47.6 | 75.2 | 251 | 287 | 163 | 141 | 158 |
| Magnesium | 0.10 | mg/L | 3.36 | 5.28 | 34.6 | 129 | 42.9 | 56.9 | 53.7 |
| Potassium | 0.10 | mg/L | 0.29 | 0.17 | 2.10 | 0.42 | 0.44 | 0.13 | 2.58 |
| Sodium | 0.10 | mg/L | 13.1 | 8.16 | 29.5 | 53.5 | 32.5 | 74.0 | 57.5 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.002 | 0.001 | <0.001 | 0.003 | 0.004 | 0.001 |
| Cobalt | 0.001 | mg/L | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | 0.001 | 0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.12 | 0.99 | 2.02 | 0.30 | 0.70 | 0.39 | 1.10 |
| Silver | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | <0.001 | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 6.50 | 3.97 | 1.67 | 3.80 | 4.65 | 2.94 | 1.00 |
| Total Anions | 0.01 | mEq/L | 2.84 | 4.20 | 16.18 | 25.31 | 11.91 | 14.08 | 14.58 |
| Total Cations | 0.01 | mEq/L | 3.23 | 4.54 | 16.73 | 27.31 | 13.07 | 14.93 | 14.88 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 25 | 55 | 24 | 4.8 | 1.2 | 0.80 | 1.2 |

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Analytical Results

| Client sample ID Client sampling date / time | | | TSF67085351 7-Aug-24 | TSF67085249 7-Aug-24 | TSF67086534 7-Aug-24 | TSF67085332 7-Aug-24 | TSF67085336 7-Aug-24 | TSF67086691 7-Aug-24 | TSF67085338 7-Aug-24 |
|---|--------|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 2488369-8 | 2488369-9 | 2488369-10 | 2488369-11 | 2488369-12 | 2488369-13 | 2488369-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 768 | 442 | 425 | 280 | 652 | 432 | 457 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 506 | 323 | 316 | 177 | 449 | 329 | 277 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 141 | 267 | 262 | 91 | 217 | 232 | 181 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 141 | 267 | 262 | 91 | 217 | 232 | 181 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 446 | 52.0 | 39.5 | 99.0 | 253 | 150 | 146 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 3.4 | 10.7 | 4.9 | 3.2 | 4.9 | 3.8 | 4.2 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 95.4 | 119 | 116 | 51.7 | 146 | 108 | 89.3 |
| Magnesium | 0.10 | mg/L | 65.2 | 6.33 | 6.39 | 11.7 | 20.3 | 14.2 | 13.1 |
| Potassium | 0.10 | mg/L | 2.02 | 0.78 | 0.89 | 0.55 | 0.78 | 1.25 | 1.39 |
| Sodium | 0.10 | mg/L | 32.9 | 12.6 | 12.7 | 14.4 | 22.7 | 22.7 | 20.6 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.003 | 0.003 | 0.002 | 0.004 | 0.04 | 0.03 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.005 | 0.62 | 0.04 | 0.48 | 0.03 | 1.30 | 1.33 |
| Silver | 0.001 | mg/L | ---- | ---- | ---- | ---- | <0.001 | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 0.44 | 10.05 | 13.67 | 7.53 | 6.04 | 4.37 | 3.09 |
| Total Anions | 0.01 | mEq/L | 11.51 | 5.74 | 5.24 | 3.60 | 8.84 | 6.96 | 6.07 |
| Total Cations | 0.01 | mEq/L | 11.61 | 7.02 | 6.90 | 4.18 | 9.97 | 7.60 | 6.46 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 11 | 4.2 | 1.9 | 9.8 | 0.65 | 120 | 80 |

Senior Manager



Analytical Results

| Client sample ID Client sampling date / time | | | TSF67085339 7-Aug-24 | TSF67086467 7-Aug-24 | TSF67086468 7-Aug-24 | TSF67086472 7-Aug-24 | TSF67086473 7-Aug-24 | TSF67086655 7-Aug-24 | TSF67086656 7-Aug-24 |
|---|--------|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 2488369-15 | 2488369-16 | 2488369-17 | 2488369-18 | 2488369-19 | 2488369-20 | 2488369-21 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 255 | 976 | 2533 | 302 | 1108 | 127 | 17 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 136 | 697 | 1139 | 222 | 748 | 98 | 5 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 76 | 323 | 81 | 222 | 15 | 91 | 5 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 76 | 323 | 81 | 222 | 15 | 91 | 5 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 92.1 | 437 | 1934 | 36.5 | 729 | 20.8 | <1.0 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.6 | 11.5 | 53.9 | 1.2 | 5.0 | 1.7 | 1.3 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 42.1 | 226 | 309 | 73.4 | 168 | 30.1 | 1.80 |
| Magnesium | 0.10 | mg/L | 7.57 | 29.0 | 95.5 | 9.47 | 79.9 | 5.53 | 0.20 |
| Potassium | 0.10 | mg/L | 3.47 | 2.35 | 21.0 | 0.78 | 1.00 | 1.85 | 0.34 |
| Sodium | 0.10 | mg/L | 13.7 | 32.4 | 284 | 18.0 | 28.2 | 9.98 | 2.71 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.001 | <0.001 | 0.001 | <0.001 | 0.005 | <0.001 |
| Cobalt | 0.001 | mg/L | 0.002 | 0.003 | 0.05 | <0.001 | <0.001 | 0.002 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.06 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 2.11 | 2.17 | 12.7 | 0.34 | 0.72 | 0.56 | 0.02 |
| Silver | 0.001 | mg/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 3.32 | 2.09 | 7.80 | 8.63 | 3.04 | 0.48 | 0.11 |
| Total Anions | 0.01 | mEq/L | 3.19 | 14.52 | 42.28 | 4.41 | 15.26 | 1.96 | 0.12 |
| Total Cations | 0.01 | mEq/L | 3.41 | 15.14 | 36.17 | 5.24 | 16.21 | 2.44 | 0.23 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 12 | 4.6 | 1.2 | 3.4 | 2.9 | 37 | 1.6 |

Senior Manager

Page : 4 of 6



Analytical Results

| Client sample ID Client sampling date / time | | | TSF67086657 7-Aug-24 | TSF67086658 7-Aug-24 | TSF67086659 7-Aug-24 | TSF67086660 7-Aug-24 | TSF67086661 7-Aug-24 | TSF67086662 7-Aug-24 | TSF67086663 7-Aug-24 |
|---|--------|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Compound | LOR | Unit | 2488369-22 | 2488369-23 | 2488369-24 | 2488369-25 | 2488369-26 | 2488369-27 | 2488369-28 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 352 | 892 | 468 | 382 | 372 | 125 | 218 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 233 | 559 | 297 | 266 | 238 | 89 | 138 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 217 | 5 | 267 | 202 | 252 | 86 | 141 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 217 | 5 | 267 | 202 | 252 | 86 | 141 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 23.7 | 607 | 88.7 | 59.5 | <1.0 | <1.0 | <1.0 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | <1.0 | <1.0 | 1.7 | 1.1 | <1.0 | <1.0 | <1.0 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 81.1 | 150 | 97.2 | 92.0 | 82.9 | 32.2 | 43.3 |
| Magnesium | 0.10 | mg/L | 7.27 | 44.3 | 13.2 | 8.88 | 7.59 | 2.09 | 7.28 |
| Potassium | 0.10 | mg/L | 2.32 | 7.36 | 0.93 | 1.00 | 0.71 | 0.72 | 1.93 |
| Sodium | 0.10 | mg/L | 13.8 | 21.5 | 34.2 | 18.6 | 20.7 | 2.45 | 13.9 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | <0.001 | 0.005 | 0.003 | 0.01 | <0.001 | <0.001 |
| Cobalt | 0.001 | mg/L | <0.001 | 0.06 | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.29 | 3.79 | 0.03 | 0.01 | 0.28 | 0.36 | 0.37 |
| Silver | 0.001 | mg/L | ---- | ---- | ---- | ---- | ---- | ---- | <0.001 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 13.34 | 0.77 | 8.88 | 15.03 | 15.55 | 0.48 | 18.95 |
| Total Anions | 0.01 | mEq/L | 4.06 | 12.47 | 6.23 | 4.55 | 4.15 | 1.43 | 2.33 |
| Total Cations | 0.01 | mEq/L | 5.31 | 12.28 | 7.45 | 6.16 | 5.68 | 1.91 | 3.41 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 2.0 | 1.2 | 1.5 | 1.2 | 9.0 | 1.9 | 18 |

Senior Manager

Page : 5 of 6



Analytical Results

| | | | Client sample ID | | | | | | |
|--|--------|-------|-----------------------------|------------|-------------|----------|------|------|------|
| | | | Client sampling date / time | | TSF67086664 | 6708DC2 | | | |
| | | | | | 7-Aug-24 | 8-Aug-24 | | | |
| Compound | LOR | Unit | 2488369-29 | 2488369-31 | | | | | |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 228 | ---- | ---- | ---- | ---- | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 133 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 146 | ---- | ---- | ---- | ---- | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | ---- | ---- | ---- | ---- | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | ---- | ---- | ---- | ---- | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | ---- | ---- | ---- | ---- | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 146 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | <1.0 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 39.5 | ---- | ---- | ---- | ---- | ---- | ---- |
| Magnesium | 0.10 | mg/L | 8.44 | ---- | ---- | ---- | ---- | ---- | ---- |
| Potassium | 0.10 | mg/L | 2.15 | ---- | ---- | ---- | ---- | ---- | ---- |
| Sodium | 0.10 | mg/L | 13.7 | ---- | ---- | ---- | ---- | ---- | ---- |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Copper | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | ---- | ---- | ---- | ---- | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.14 | ---- | ---- | ---- | ---- | ---- | ---- |
| Silver | 0.001 | mg/L | ---- | ---- | ---- | ---- | ---- | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | ---- | ---- | ---- | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | 1.011 | ---- | ---- | ---- | ---- | ---- |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | 1.011 | ---- | ---- | ---- | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 15.77 | ---- | ---- | ---- | ---- | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 2.41 | ---- | ---- | ---- | ---- | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 3.31 | ---- | ---- | ---- | ---- | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 3.5 | ---- | ---- | ---- | ---- | ---- | ---- |

Senior Manager

Page : 6 of 6



CERTIFICATE OF ANALYSIS

| | | | |
|-----------|--|-------------------------|-----------------------|
| Client | Akara Resources Public Co., Ltd. | ALS Lot No. | 24127010 |
| Contact | Yaowanud Chandung | Date Samples Received | Nov 13, 2024 12:45 PM |
| Address | 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Pichit Thailand 66230 | Issue Date | Nov 20, 2024 07:09 PM |
| Email | yaowanud@akararesources.com | Quote number | Q2352889 |
| | | Project | CHATREE |
| Telephone | 0-5661-4500 | No. of samples received | 25 |
| Facsimile | 0-5661-4190 | No. of samples analysed | 25 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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 from without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.



Analytical Results

| Client sample ID | | | GW6711ST4 | GW6711ST5 | GW6711ST7 | GW6711ST8 | GW6711ST9 | GW6711ST10 | GW6711ST11 |
|------------------------------------|--------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 12-Nov-24 | 12-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 |
| Compound | LOR | Unit | 24127010-1 | 24127010-2 | 24127010-3 | 24127010-4 | 24127010-5 | 24127010-6 | 24127010-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 334 | 416 | 400 | 204 | 104 | 344 | 245 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 262 | 329 | 263 | 158 | 121 | 187 | 101 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 248 | 299 | 324 | 132 | 121 | 243 | 116 |
| Carbonate Alkalinity | 1 | mg/L | 10.00 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | 5 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 258 | 299 | 324 | 132 | 121 | 243 | 116 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 60.8 | <1.0 | 51.4 | 49.7 | 34.1 | 60.9 | 18.2 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 10.5 | 1.8 | 23.4 | 18.7 | 5.1 | 13.8 | 2.1 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 76.6 | 116 | 68.3 | 55.2 | 31.4 | 52.6 | 27.9 |
| Magnesium | 0.10 | mg/L | 17.4 | 9.84 | 22.8 | 5.24 | 10.7 | 13.9 | 7.81 |
| Potassium | 0.10 | mg/L | 0.54 | 0.57 | 0.44 | 6.40 | 0.26 | 0.28 | 1.26 |
| Sodium | 0.10 | mg/L | 35.1 | 16.9 | 74.3 | 13.2 | 16.9 | 49.5 | 14.8 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.004 | 0.001 | 0.005 | 0.008 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.09 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.05 | 0.06 | 0.002 | 0.001 | 0.08 | 0.39 | 0.14 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 9.61 | 19.57 | 9.71 | 2.96 | 5.87 | 2.79 | 0.37 |
| Total Anions | 0.01 | mEq/L | 5.60 | 4.94 | 7.02 | 3.70 | 2.83 | 5.61 | 2.34 |
| Total Cations | 0.01 | mEq/L | 6.79 | 7.35 | 8.53 | 3.92 | 3.18 | 5.93 | 2.71 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 0.45 | 0.30 | 1.5 | 15 | 0.35 | 0.75 | 20 |

Approved by

Senior Manager



Analytical Results

| Client sample ID | | | GW6711ST12 | GW6711ST13 | GW6711ST15 | GW6711ST17 | GW6711ST18 | GW6711ST20 | GW6711ST21 |
|------------------------------------|--------|-------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Client sampling date / time | | | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 11-Nov-24 | 11-Nov-24 | 12-Nov-24 | 12-Nov-24 |
| Compound | LOR | Unit | 24127010-8 | 24127010-9 | 24127010-10 | 24127010-11 | 24127010-12 | 24127010-13 | 24127010-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 246 | 256 | 282 | 804 | 484 | 316 | 282 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 135 | 168 | 183 | 599 | 275 | 221 | 225 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 172 | 177 | 106 | 405 | 223 | 197 | 218 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 172 | 177 | 106 | 405 | 223 | 197 | 218 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | 9.8 | 104 | 277 | 177 | <1.0 | 50.6 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.0 | 7.3 | 18.1 | 104 | 47.1 | 31.3 | 5.9 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 45.4 | 50.1 | 58.9 | 159 | 81.5 | 58.6 | 65.3 |
| Magnesium | 0.10 | mg/L | 5.53 | 10.6 | 9.09 | 48.9 | 17.6 | 18.5 | 15.2 |
| Potassium | 0.10 | mg/L | 0.87 | 0.49 | 7.44 | 2.37 | 1.23 | 1.02 | 0.22 |
| Sodium | 0.10 | mg/L | 15.2 | 16.1 | 10.2 | 105 | 74.8 | 13.9 | 22.0 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.009 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.003 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 3.57 | 0.23 | 1.33 | 0.001 | 0.005 | 0.28 | 0.01 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 8.17 | 10.54 | 0.56 | 4.36 | 1.23 | 10.39 | 6.91 |
| Total Anions | 0.01 | mEq/L | 2.89 | 3.31 | 4.37 | 15.20 | 8.58 | 4.12 | 4.76 |
| Total Cations | 0.01 | mEq/L | 3.40 | 4.09 | 4.32 | 16.58 | 8.80 | 5.07 | 5.47 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 18 | 2.1 | 32 | 2.0 | 0.25 | 1.4 | 0.50 |

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Senior Manager



Analytical Results

| Client sample ID | | | RG67116672 | RG6711690 | RG6711691 | RG6711692 | RG6711693 | RG67114017 | RG67114018 |
|---|--------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Client sampling date / time | | | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 11-Nov-24 | 11-Nov-24 |
| Compound | LOR | Unit | 24127010-15 | 24127010-16 | 24127010-17 | 24127010-18 | 24127010-19 | 24127010-20 | 24127010-21 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 232 | 364 | 320 | 230 | 282 | 588 | 374 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 119 | 283 | 244 | 123 | 239 | 419 | 259 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 116 | 283 | 263 | 167 | 207 | 278 | 253 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 116 | 283 | 263 | 167 | 207 | 278 | 253 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 55.3 | <1.0 | <1.0 | <1.0 | 58.5 | 206 | 69.2 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.9 | 1.3 | 3.8 | <1.0 | 1.7 | 58.5 | 9.7 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 28.1 | 86.7 | 59.8 | 30.8 | 72.5 | 130 | 83.3 |
| Magnesium | 0.10 | mg/L | 12.0 | 16.1 | 22.9 | 11.1 | 14.1 | 23.1 | 12.4 |
| Potassium | 0.10 | mg/L | 5.28 | 0.50 | 9.03 | 0.22 | 0.16 | 1.43 | 3.50 |
| Sodium | 0.10 | mg/L | 15.6 | 22.4 | 26.1 | 20.1 | 9.39 | 60.0 | 28.4 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.003 | <0.001 | 0.002 | 0.001 | 0.001 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | 0.004 | 0.002 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | 0.66 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.04 | 0.07 | 1.36 | 0.25 | 0.67 | 0.83 | 0.36 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 1.87 | 17.31 | 17.09 | 9.38 | 5.54 | 2.87 | 5.41 |
| Total Anions | 0.01 | mEq/L | 3.09 | 4.68 | 4.42 | 2.76 | 4.64 | 10.40 | 5.83 |
| Total Cations | 0.01 | mEq/L | 3.21 | 6.64 | 6.24 | 3.33 | 5.19 | 11.02 | 6.50 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 9.9 | 1.5 | 24 | 4.4 | 24 | 2.2 | 65 |

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Senior Manager



Analytical Results

| Client sample ID | | | RG67114020 | RG67114021 | RG67114024 | RG67114025 | ---- | ---- | ---- |
|---|--------|-------|-------------|-------------|-------------|-------------|------|------|------|
| Client sampling date / time | | | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | ---- | ---- | ---- |
| Compound | LOR | Unit | 24127010-22 | 24127010-23 | 24127010-24 | 24127010-25 | ---- | ---- | ---- |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 412 | 158 | 112 | 155 | ---- | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 154 | 109 | 73 | 114 | ---- | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 263 | 132 | 86 | 116 | ---- | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | ---- | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 263 | 132 | 86 | 116 | ---- | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 99.5 | <1.0 | 19.3 | <1.0 | ---- | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 24.1 | 4.0 | 4.7 | 4.6 | ---- | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 29.2 | 34.2 | 21.1 | 35.2 | ---- | ---- | ---- |
| Magnesium | 0.10 | mg/L | 19.7 | 5.69 | 4.98 | 6.40 | ---- | ---- | ---- |
| Potassium | 0.10 | mg/L | 0.67 | 6.03 | 1.80 | 2.72 | ---- | ---- | ---- |
| Sodium | 0.10 | mg/L | 109 | 7.77 | 10.6 | 9.03 | ---- | ---- | ---- |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.002 | 0.001 | <0.001 | ---- | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Copper | 0.001 | mg/L | 0.004 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | 0.16 | <0.05 | <0.05 | ---- | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.17 | 0.45 | 0.47 | 0.02 | ---- | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 5.43 | 0.40 | 0.03 | 0.71 | ---- | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 7.02 | 2.27 | 1.94 | 2.04 | ---- | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 7.83 | 2.66 | 1.97 | 2.74 | ---- | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 17 | 38 | 9.0 | 12 | ---- | ---- | ---- |

Senior Manager



CERTIFICATE OF ANALYSIS

| | | | |
|------------------|---|--------------------------------|-----------------------|
| Client | Akara Resources Public Co., Ltd. | ALS Lot No. | 24127019 |
| Contact | Yaowanud Chandung | Date Samples Received | Nov 14, 2024 02:00 PM |
| Address | 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230 | Issue Date | Nov 21, 2024 05:45 PM |
| Email | yaowanud@akararesources.com | Quote number | Q2352889 |
| | | Project | CHATREE |
| Telephone | 0-5661-4500 | No. of samples received | 19 |
| Facsimile | 0-5661-4190 | No. of samples analysed | 19 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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.

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Page : 1 of 4

ALS Lot No. : 24127019
Client : Akara Resources Public Co., Ltd.
Project : CHATREE



Analytical Results

| Client sample ID | | | MS6711677 | MS6711678 | MS6711679 | MS67115993 | MS67115994 | MS67115997 | MS67115998 |
|---|--------|-------|------------|------------|------------|------------|------------|------------|------------|
| Client sampling date / time | | | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 12-Nov-24 | 13-Nov-24 | 13-Nov-24 |
| Compound | LOR | Unit | 24127019-1 | 24127019-2 | 24127019-3 | 24127019-4 | 24127019-5 | 24127019-6 | 24127019-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 1352 | 190 | 192 | 3416 | 1772 | 100 | 170 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 1064 | 154 | 174 | 2271 | 1422 | 51 | 93 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 101 | 121 | 106 | 218 | 329 | 66 | 126 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 101 | 121 | 106 | 218 | 329 | 66 | 126 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 1123 | 77.5 | 107 | 2371 | 1235 | 23.2 | 24.9 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 7.9 | 2.3 | 1.6 | 3.6 | 3.0 | 1.2 | 3.4 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 312 | 31.5 | 42.4 | 611 | 442 | 15.3 | 32.4 |
| Magnesium | 0.10 | mg/L | 69.2 | 18.3 | 16.4 | 181 | 77.8 | 3.20 | 3.06 |
| Potassium | 0.10 | mg/L | 13.8 | 0.40 | 1.05 | 1.57 | 5.06 | 0.88 | 0.56 |
| Sodium | 0.10 | mg/L | 40.6 | 15.0 | 15.3 | 68.0 | 39.3 | 11.1 | 27.8 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.002 | 0.001 | 0.001 | 0.003 | 0.004 | <0.001 | 0.001 |
| Cobalt | 0.001 | mg/L | 0.01 | <0.001 | 0.008 | <0.001 | <0.001 | <0.001 | 0.005 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.003 |
| Iron | 0.05 | mg/L | 2.28 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 3.81 | 0.02 | 0.63 | 0.08 | 1.57 | 0.15 | 0.32 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 2.94 | 1.41 | 2.45 | 3.68 | 0.60 | 0.05 | 7.16 |
| Total Anions | 0.01 | mEq/L | 24.78 | 3.64 | 3.96 | 52.02 | 30.65 | 1.59 | 2.68 |
| Total Cations | 0.01 | mEq/L | 23.37 | 3.74 | 4.16 | 48.33 | 30.29 | 1.54 | 3.09 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 160 | 60 | 80 | 11 | 19 | 4.2 | 750 |

Approved by

Senior Manager

MM-N12



Analytical Results

| Client sample ID | | | MS67116081 | MS67116082 | MS67116083 | MS67116084 | MS67116647 | MS67116648 | MS67116651 |
|------------------------------------|--------|-------|------------|------------|-------------|-------------|-------------|-------------|-------------|
| Client sampling date / time | | | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 |
| Compound | LOR | Unit | 24127019-8 | 24127019-9 | 24127019-10 | 24127019-11 | 24127019-12 | 24127019-13 | 24127019-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 668 | 1800 | 376 | 368 | 412 | 242 | 408 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 520 | 1370 | 259 | 279 | 274 | 153 | 277 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 18 | 152 | 304 | 329 | 162 | 137 | 192 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 18 | 152 | 304 | 329 | 162 | 137 | 192 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 550 | 1648 | 15.5 | 9.1 | 157 | 58.7 | 133 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.4 | 2.6 | 1.3 | 1.6 | 2.5 | 2.5 | 3.4 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 107 | 277 | 82.0 | 70.1 | 84.5 | 46.4 | 76.6 |
| Magnesium | 0.10 | mg/L | 61.3 | 165 | 13.3 | 25.3 | 15.4 | 9.15 | 20.8 |
| Potassium | 0.10 | mg/L | 1.80 | 4.42 | 0.44 | <0.10 | 3.17 | 1.95 | 4.40 |
| Sodium | 0.10 | mg/L | 23.7 | 133 | 23.4 | 26.5 | 10.7 | 9.56 | 9.70 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.002 | 0.003 | 0.002 | 0.001 | <0.001 | 0.003 |
| Cobalt | 0.001 | mg/L | <0.001 | 0.004 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.11 | 3.57 | 0.41 | 0.15 | 0.77 | 0.41 | 0.92 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 0.43 | 4.12 | 7.66 | 9.00 | 0.84 | 0.37 | 0.99 |
| Total Anions | 0.01 | mEq/L | 11.57 | 36.17 | 5.33 | 5.62 | 5.93 | 3.51 | 5.95 |
| Total Cations | 0.01 | mEq/L | 11.47 | 33.31 | 6.21 | 6.73 | 6.03 | 3.53 | 6.07 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 14 | 31 | 2.3 | 3.7 | 37 | 90 | 33 |

Approved by

Senior Manager



Analytical Results

| Client sample ID | | | MS67116652 | MS67116653 | MS67116654 | MS67116655 | MS67116656 | ---- | ---- |
|------------------------------------|--------|-------|-------------|-------------|-------------|-------------|-------------|------|------|
| Client sampling date / time | | | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | 11-Nov-24 | ---- | ---- |
| Compound | LOR | Unit | 24127019-15 | 24127019-16 | 24127019-17 | 24127019-18 | 24127019-19 | ---- | ---- |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 440 | 936 | 214 | 130 | 240 | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 360 | 689 | 90 | 59 | 130 | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 293 | 96 | 66 | 71 | 142 | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 293 | 96 | 66 | 71 | 142 | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 114 | 689 | 78.2 | 27.6 | 32.3 | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 3.6 | 3.8 | 5.2 | 2.2 | 2.3 | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 105 | 130 | 9.00 | 17.1 | 41.1 | ---- | ---- |
| Magnesium | 0.10 | mg/L | 23.7 | 88.1 | 16.4 | 3.84 | 6.64 | ---- | ---- |
| Potassium | 0.10 | mg/L | 2.79 | 12.2 | 4.38 | 1.43 | 2.00 | ---- | ---- |
| Sodium | 0.10 | mg/L | 10.5 | 6.68 | 11.6 | 11.9 | 10.9 | ---- | ---- |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.002 | <0.001 | 0.004 | 0.001 | 0.001 | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | 0.002 | 0.02 | <0.001 | <0.001 | ---- | ---- |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.03 | 3.94 | 1.54 | 0.14 | 0.72 | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 3.23 | 4.58 | 0.40 | 0.06 | 1.23 | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 7.23 | 15.74 | 2.82 | 1.79 | 3.05 | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 7.71 | 14.36 | 2.42 | 1.72 | 3.12 | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 45 | 240 | 100 | 4.0 | 1.8 | ---- | ---- |

Approved by

Senior Manager



CERTIFICATE OF ANALYSIS

| | | | |
|------------------|---|--------------------------------|-----------------------|
| Client | Akara Resources Public Co., Ltd. | ALS Lot No. | 24127012 |
| Contact | Yaowanud Chandung | Date Samples Received | Nov 15, 2024 12:45 PM |
| Address | 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230 | Issue Date | Nov 22, 2024 08:28 PM |
| Email | yaowanud@akararesources.com | Quote number | Q2352889 |
| | | Project | CHATREE |
| Telephone | 0-5661-4500 | No. of samples received | 30 |
| Facsimile | 0-5661-4190 | No. of samples analysed | 30 |

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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.

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Page : 1 of 6

ALS Lot No. : 24127012
Client : Akara Resources Public Co., Ltd.
Project : CHATREE



Analytical Results

| Client sample ID | | | MS67115991 | MS67115992 | TSF6711663 | TSF6711699 | TSF6711991 | TSF6711992 | TSF67115350 |
|---|--------|-------|------------|------------|------------|------------|------------|------------|-------------|
| Client sampling date / time | | | 13-Nov-24 | 13-Nov-24 | 14-Nov-24 | 14-Nov-24 | 13-Nov-24 | 13-Nov-24 | 14-Nov-24 |
| Compound | LOR | Unit | 24127012-1 | 24127012-2 | 24127012-3 | 24127012-4 | 24127012-5 | 24127012-6 | 24127012-7 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 252 | 624 | 896 | 984 | 744 | 728 | 820 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 162 | 451 | 709 | 1008 | 637 | 614 | 606 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 121 | 253 | 339 | 359 | 476 | 582 | 334 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 121 | 253 | 339 | 359 | 476 | 582 | 334 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 61.0 | 238 | 499 | 814 | 304 | 206 | 451 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 5.1 | 1.7 | 25.6 | 18.7 | 7.2 | 7.2 | 8.3 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 50.7 | 168 | 228 | 226 | 187 | 145 | 156 |
| Magnesium | 0.10 | mg/L | 8.60 | 7.77 | 36.3 | 114 | 50.4 | 61.1 | 52.7 |
| Potassium | 0.10 | mg/L | 0.34 | 0.58 | 2.07 | 0.47 | 0.59 | 0.16 | 2.26 |
| Sodium | 0.10 | mg/L | 9.06 | 20.2 | 32.7 | 51.6 | 39.5 | 83.5 | 61.6 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | <0.001 | 0.001 | <0.001 | 0.003 | 0.004 | 0.002 |
| Cobalt | 0.001 | mg/L | <0.001 | 0.002 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | 0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.39 | 1.20 | 2.40 | 0.13 | 1.41 | 0.31 | 1.07 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 3.77 | 4.53 | 1.81 | 0.22 | 3.51 | 6.57 | 0.17 |
| Total Anions | 0.01 | mEq/L | 3.38 | 9.04 | 16.45 | 23.02 | 14.20 | 13.95 | 14.91 |
| Total Cations | 0.01 | mEq/L | 3.64 | 9.90 | 15.86 | 22.92 | 15.23 | 15.91 | 14.86 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 40 | 24 | 4.7 | 24 | 0.50 | 0.55 | 2.0 |

Approved by

Senior Manager

MM-N12



Analytical Results

| Client sample ID | | | TSF67115351 | TSF67115249 | TSF67116534 | TSF67115332 | TSF67115336 | TSF67116691 | TSF67115338 |
|---|--------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Client sampling date / time | | | 14-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 |
| Compound | LOR | Unit | 24127012-8 | 24127012-9 | 24127012-10 | 24127012-11 | 24127012-12 | 24127012-13 | 24127012-14 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 940 | 395 | 385 | 162 | 428 | 470 | 358 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 823 | 342 | 322 | 115 | 320 | 315 | 281 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 207 | 299 | 293 | 111 | 238 | 223 | 187 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 207 | 299 | 293 | 111 | 238 | 223 | 187 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 751 | 52.0 | 38.0 | 39.7 | 104 | 127 | 138 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 5.3 | 7.2 | 5.7 | 2.2 | 3.3 | 4.1 | 4.3 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 159 | 126 | 119 | 35.9 | 104 | 103 | 90.8 |
| Magnesium | 0.10 | mg/L | 103 | 6.69 | 6.33 | 6.23 | 14.4 | 13.9 | 13.2 |
| Potassium | 0.10 | mg/L | 2.38 | 0.88 | 1.03 | 0.80 | 0.84 | 1.34 | 1.38 |
| Sodium | 0.10 | mg/L | 44.1 | 13.0 | 12.5 | 10.9 | 19.8 | 21.8 | 21.1 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.003 | 0.003 | 0.002 | 0.006 | 0.06 | 0.02 |
| Cobalt | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | 0.002 | <0.001 | <0.001 | 0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.12 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.06 | 0.67 | 0.46 | 0.36 | 0.05 | 1.32 | 1.47 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 1.17 | 9.28 | 9.93 | 0.10 | 8.66 | 6.63 | 4.57 |
| Total Anions | 0.01 | mEq/L | 18.86 | 6.15 | 5.75 | 2.70 | 6.11 | 6.36 | 6.00 |
| Total Cations | 0.01 | mEq/L | 18.42 | 7.41 | 7.01 | 2.80 | 7.27 | 7.26 | 6.57 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 3.5 | 2.5 | 1.1 | 4.0 | | | 27 |

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Senior Manager



Analytical Results

| Client sample ID | | | TSF67115339 | TSF67116467 | TSF67116468 | TSF67116472 | TSF67116473 | TSF67116655 | TSF67116656 |
|---|--------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Client sampling date / time | | | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 |
| Compound | LOR | Unit | 24127012-15 | 24127012-16 | 24127012-17 | 24127012-18 | 24127012-19 | 24127012-20 | 24127012-21 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 190 | 944 | 1120 | 342 | 628 | 202 | 25 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 120 | 774 | 683 | 247 | 657 | 80 | 10 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 66 | 233 | 81 | 228 | 15 | 96 | 10 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 66 | 233 | 81 | 228 | 15 | 96 | 10 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 96.2 | 759 | 932 | 78.2 | 722 | 16.9 | 2.8 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 2.9 | 10.5 | 13.5 | 2.0 | 7.2 | 2.1 | 2.0 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 36.6 | 253 | 174 | 77.7 | 154 | 24.6 | 3.03 |
| Magnesium | 0.10 | mg/L | 6.86 | 34.6 | 59.7 | 12.8 | 66.1 | 4.58 | 0.48 |
| Potassium | 0.10 | mg/L | 3.20 | 2.28 | 13.7 | 0.66 | 0.62 | 1.52 | 0.32 |
| Sodium | 0.10 | mg/L | 13.7 | 42.0 | 116 | 16.6 | 26.3 | 8.31 | 2.83 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | 0.001 | <0.001 | 0.001 | <0.001 | 0.001 | <0.001 |
| Cobalt | 0.001 | mg/L | 0.002 | 0.004 | 0.009 | <0.001 | <0.001 | 0.002 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.25 | <0.05 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.44 | 2.43 | 6.60 | 0.46 | 1.22 | 0.51 | 0.03 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 0.91 | 6.09 | 4.22 | 2.58 | 3.08 | 0.03 | 0.04 |
| Total Anions | 0.01 | mEq/L | 3.12 | 19.59 | 20.70 | 5.38 | 15.17 | 1.98 | 0.28 |
| Total Cations | 0.01 | mEq/L | 3.07 | 17.34 | 19.03 | 5.67 | 14.26 | 2.01 | 0.32 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 80 | 0.70 | 0.60 | 3.7 | 14 | 12 | 0.80 |

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Senior Manager



Analytical Results

| Client sample ID | | | TSF67116657 | TSF67116658 | TSF67116659 | TSF67116660 | TSF67116661 | TSF67116662 | TSF67116663 |
|---|--------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Client sampling date / time | | | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 | 13-Nov-24 |
| Compound | LOR | Unit | 24127012-22 | 24127012-23 | 24127012-24 | 24127012-25 | 24127012-26 | 24127012-27 | 24127012-28 |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 362 | 712 | 440 | 335 | 315 | 58 | 175 |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 224 | 505 | 280 | 242 | 205 | 40 | 127 |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 243 | 10 | 288 | 228 | 233 | 61 | 152 |
| Carbonate Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Hydroxide Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total Alkalinity | 1 | mg/L | 243 | 10 | 288 | 228 | 233 | 61 | 152 |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | 15.0 | 559 | 90.2 | 67.9 | 3.1 | 2.8 | <1.0 |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.2 | 1.4 | 2.2 | 1.7 | 1.3 | 1.5 | <1.0 |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 78.5 | 136 | 91.5 | 83.9 | 71.4 | 14.8 | 40.2 |
| Magnesium | 0.10 | mg/L | 6.88 | 39.9 | 12.5 | 7.79 | 6.55 | 0.82 | 6.49 |
| Potassium | 0.10 | mg/L | 2.15 | 6.74 | 0.80 | 0.80 | 0.44 | 0.45 | 1.70 |
| Sodium | 0.10 | mg/L | 13.4 | 20.9 | 32.3 | 15.9 | 20.8 | 5.00 | 13.1 |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | 0.001 | <0.001 | 0.007 | 0.002 | 0.008 | <0.001 | <0.001 |
| Cobalt | 0.001 | mg/L | <0.001 | 0.04 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper | 0.001 | mg/L | <0.001 | 0.01 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Iron | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.07 |
| Lead | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Manganese | 0.001 | mg/L | 0.25 | 3.33 | 0.11 | 0.17 | 0.21 | 0.07 | 0.15 |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 8.52 | 1.94 | 2.88 | 3.52 | 12.37 | 0.06 | 11.21 |
| Total Anions | 0.01 | mEq/L | 4.32 | 11.60 | 6.63 | 5.16 | 3.91 | 1.09 | 2.52 |
| Total Cations | 0.01 | mEq/L | 5.12 | 11.16 | 7.02 | 5.54 | 5.02 | 1.04 | 3.15 |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 3.7 | 0.90 | 1.2 | 1.8 | 3.3 | 0.75 | 21 |

Approved by

Senior Manager



Analytical Results

| Client sample ID | | | TSF67116664 | 6711DC2 | | | | | |
|---|--------|-------|-------------|-------------|------|------|------|------|------|
| Client sampling date / time | | | 13-Nov-24 | 14-Nov-24 | | | | | |
| Compound | LOR | Unit | 24127012-29 | 24127012-31 | | | | | |
| EA015: Total Dissolved Solids | | | | | | | | | |
| Total Dissolved solids | 5 | mg/L | 188 | ---- | ---- | ---- | ---- | ---- | ---- |
| EA065: Total Hardness | | | | | | | | | |
| Total Hardness | 1 | mg/L | 125 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED037P: Alkalinity | | | | | | | | | |
| Bicarbonate Alkalinity | 1 | mg/L | 152 | ---- | ---- | ---- | ---- | ---- | ---- |
| Carbonate Alkalinity | 1 | mg/L | <1 | ---- | ---- | ---- | ---- | ---- | ---- |
| Hydroxide Alkalinity | 1 | mg/L | <1 | ---- | ---- | ---- | ---- | ---- | ---- |
| Phenolphthalein Alkalinity | 1 | mg/L | <1 | ---- | ---- | ---- | ---- | ---- | ---- |
| Total Alkalinity | 1 | mg/L | 152 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED041G: Sulfate | | | | | | | | | |
| Sulfate | 1.0 | mg/L | <1.0 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED045G: Chloride Discrete analyzer | | | | | | | | | |
| Chloride | 1.0 | mg/L | 1.2 | ---- | ---- | ---- | ---- | ---- | ---- |
| ED093F: Dissolved Major Cations | | | | | | | | | |
| Calcium | 0.10 | mg/L | 38.4 | ---- | ---- | ---- | ---- | ---- | ---- |
| Magnesium | 0.10 | mg/L | 7.15 | ---- | ---- | ---- | ---- | ---- | ---- |
| Potassium | 0.10 | mg/L | 1.86 | ---- | ---- | ---- | ---- | ---- | ---- |
| Sodium | 0.10 | mg/L | 13.1 | ---- | ---- | ---- | ---- | ---- | ---- |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | |
| Arsenic | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Cobalt | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Copper | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Iron | 0.05 | mg/L | <0.05 | ---- | ---- | ---- | ---- | ---- | ---- |
| Lead | 0.001 | mg/L | <0.001 | ---- | ---- | ---- | ---- | ---- | ---- |
| Manganese | 0.001 | mg/L | 0.15 | ---- | ---- | ---- | ---- | ---- | ---- |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | |
| Mercury | 0.0001 | mg/L | <0.0001 | ---- | ---- | ---- | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Cyanide | 0.002 | mg/L | <0.002 | <0.002 | ---- | ---- | ---- | ---- | ---- |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | |
| Weak Acid Dissociable Cyanide | 0.002 | mg/L | <0.002 | <0.002 | ---- | ---- | ---- | ---- | ---- |
| EN055: Ionic Balance | | | | | | | | | |
| Ionic Balance | ---- | % | 10.29 | ---- | ---- | ---- | ---- | ---- | ---- |
| Total Anions | 0.01 | mEq/L | 2.54 | ---- | ---- | ---- | ---- | ---- | ---- |
| Total Cations | 0.01 | mEq/L | 3.12 | ---- | ---- | ---- | ---- | ---- | ---- |
| Turbidity | | | | | | | | | |
| Turbidity | 0.1 | NTU | 4.6 | ---- | ---- | ---- | ---- | ---- | ---- |

Approved by

Senior Manager

CERTIFICATE OF ANALYSIS

Client Akara Resources Public Co., Ltd.
Contact Yaowanud Chandung
Address 99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
Email yaowanud@akararesources.com

ALS Lot No. 2488414
Date Samples Received Aug 09, 2024 01:00 PM
Issue Date Aug 23, 2024 09:29 AM

Telephone 0-5661-4500
Facsimile 0-5661-4190
Quote number Q2352889
Project CHATREE
No. of samples received 3
No. of samples analysed 3

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or client request.

When sampling time information is not provided by client, sampling dates are shown without a time component. In this instances, the time component has been assumed by the laboratory for processing purposes.

The 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.

Analytical Results

| Compound | Client sample ID | | Unit | 6708SP 8-Aug-24 2488414-1 | 6708UD 8-Aug-24 2488414-2 | 6708UD2 8-Aug-24 2488414-3 | | | | | | |
|---|-----------------------------|-------|------|---------------------------------|---------------------------------|----------------------------------|--|--|--|--|--|--|
| | Client sampling date / time | LOR | | | | | | | | | | |
| BOD | | | | | | | | | | | | |
| BOD (5 days at 20 degree C) | | 2.0 | mg/L | --- | <2.0 | 4.0 | | | | | | |
| COD | | | | | | | | | | | | |
| COD | | 25 | mg/L | --- | <25 | 61 | | | | | | |
| EA015: Total Dissolved Solids | | | | | | | | | | | | |
| Total Dissolved solids | | 5 | mg/L | 2455 | 1925 | 2965 | | | | | | |
| EA025: Suspended Solids | | | | | | | | | | | | |
| Total Suspended Solids | | 5 | mg/L | 10 | <5 | <5 | | | | | | |
| EA065: Total Hardness | | | | | | | | | | | | |
| Total Hardness | | 1 | mg/L | 1297 | 1218 | 1353 | | | | | | |
| ED037P: Alkalinity | | | | | | | | | | | | |
| Bicarbonate Alkalinity | | 1 | mg/L | 181 | 126 | 20 | | | | | | |
| Carbonate Alkalinity | | 1 | mg/L | <1 | <1 | <1 | | | | | | |
| Hydroxide Alkalinity | | 1 | mg/L | <1 | <1 | <1 | | | | | | |
| Phenolphthalein Alkalinity | | 1 | mg/L | <1 | <1 | <1 | | | | | | |
| Total Alkalinity | | 1 | mg/L | 181 | 126 | 20 | | | | | | |
| ED041G: Sulfate | | | | | | | | | | | | |
| Sulfate | | 1.0 | mg/L | 1850 | 1475 | 2425 | | | | | | |
| ED045G: Chloride Discrete analyzer | | | | | | | | | | | | |
| Chloride | | 1.0 | mg/L | 47.4 | 24.6 | 107 | | | | | | |
| ED093F: Dissolved Major Cations | | | | | | | | | | | | |
| Calcium | | 0.10 | mg/L | 425 | 383 | 522 | | | | | | |
| Magnesium | | 0.10 | mg/L | 57.2 | 63.7 | 10.8 | | | | | | |
| Potassium | | 0.10 | mg/L | 45.2 | 25.5 | 105 | | | | | | |
| Sodium | | 0.10 | mg/L | 219 | 145 | 388 | | | | | | |
| EG020F: Dissolved Metals by ICP-MS | | | | | | | | | | | | |
| Aluminium | | 0.01 | mg/L | <0.01 | <0.01 | <0.01 | | | | | | |
| Antimony | | 0.001 | mg/L | 0.001 | 0.001 | <0.001 | | | | | | |
| Arsenic | | 0.001 | mg/L | <0.001 | <0.001 | 0.01 | | | | | | |
| Barium | | 0.001 | mg/L | 0.02 | 0.02 | 0.03 | | | | | | |
| Boron | | 0.05 | mg/L | 0.71 | 0.19 | 0.16 | | | | | | |
| Cadmium | | 0.001 | mg/L | <0.001 | 0.03 | 0.001 | | | | | | |
| Chromium | | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | | | | | | |
| Cobalt | | 0.001 | mg/L | 0.007 | 0.007 | 0.06 | | | | | | |

LOR = Limit of reporting

Approved by

Senior Manager



Analytical Results

| Compound | | Client sample ID | | 6708SP | 6708UD | 6708UD2 | | | | | | |
|---|--|-----------------------------|-------|-----------|-----------|-----------|--|--|--|--|--|--|
| | | Client sampling date / time | Unit | | | | | | | | | |
| EG020F: Dissolved Metals by ICP-MS | | LOR | | 8-Aug-24 | 8-Aug-24 | 8-Aug-24 | | | | | | |
| | | | | 2488414-1 | 2488414-2 | 2488414-3 | | | | | | |
| Copper | | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | | | | | | |
| Iron | | 0.05 | mg/L | <0.05 | <0.05 | <0.05 | | | | | | |
| Lead | | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | | | | | | |
| Manganese | | 0.001 | mg/L | 4.08 | 2.68 | 2.80 | | | | | | |
| Molybdenum | | 0.001 | mg/L | 0.07 | 0.01 | 3.13 | | | | | | |
| Nickel | | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | | | | | | |
| Selenium | | 0.01 | mg/L | <0.01 | <0.01 | <0.01 | | | | | | |
| Silver | | 0.001 | mg/L | <0.001 | <0.001 | <0.001 | | | | | | |
| Zinc | | 0.005 | mg/L | <0.005 | <0.005 | 0.03 | | | | | | |
| EG035F: Dissolved Mercury by CVAFS | | | | | | | | | | | | |
| Mercury | | 0.0001 | mg/L | <0.0001 | <0.0001 | <0.0001 | | | | | | |
| EK025G: Cyanide Discrete analyzer | | | | | | | | | | | | |
| Cyanide | | 0.002 | mg/L | 0.005 | <0.002 | 1.501 | | | | | | |
| EK025G-1: Cyanide WAD Discrete analyzer | | | | | | | | | | | | |
| Weak Acid Dissociable Cyanide | | 0.002 | mg/L | 0.005 | <0.002 | 1.501 | | | | | | |
| EK055G: Ammonia Discrete analyzer | | | | | | | | | | | | |
| Ammonia Nitrogen | | 0.06 | mg/L | 8.48 | 3.30 | 25.6 | | | | | | |
| EK057G: Nitrate Discrete analyzer | | | | | | | | | | | | |
| Nitrate | | 0.01 | mg/L | <0.01 | 0.15 | <0.01 | | | | | | |
| EK071G: Reactive Phosphorus | | | | | | | | | | | | |
| Reactive Phosphorus | | 0.01 | mg/L | <0.01 | <0.01 | <0.01 | | | | | | |
| EN055: Ionic Balance | | | | | | | | | | | | |
| Ionic Balance | | | % | 6.86 | 2.43 | 6.35 | | | | | | |
| Total Anions | | 0.01 | mEq/L | 42.04 | 32.84 | 52.81 | | | | | | |
| Total Cations | | 0.01 | mEq/L | 36.64 | 31.28 | 46.51 | | | | | | |
| EP005: Total Organic Carbon | | | | | | | | | | | | |
| Total Organic Carbon | | 0.1 | mg/L | 0.94 | 0.77 | 9.84 | | | | | | |

LOR = Limit of reporting

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Senior Manager



Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563

Date Received : Nov 26, 2024
Date Reported : Dec 11, 2024
Report Number : 3169922-1

Page 1 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-1 |
| Sampled Date | Nov 25, 2024 3:30 PM |
| Sample Description | UD |
| Location | 6711UD |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|-----------------------|------|--------|-----------|--------------|--|------------------|
| Metals Testing | | | | | | |
| Aluminium | mg/L | 0.003 | 0.005 | 0.02 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Antimony | mg/L | 0.0003 | 0.0005 | 0.004 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Arsenic | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Barium | mg/L | 0.0003 | 0.0005 | 0.02 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Boron | mg/L | 0.003 | 0.005 | 0.21 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Cadmium | mg/L | 0.0003 | 0.0005 | 0.001 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Calcium | mg/L | 0.03 | 0.05 | 379 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Chromium | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Cobalt | mg/L | 0.0003 | 0.0005 | 0.008 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Copper | mg/L | 0.0003 | 0.0005 | <0.0005 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Iron | mg/L | 0.003 | 0.005 | 0.06 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Lead | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |

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S:\Reports\All\24131563 (2411PM)



Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563
Date Received : Nov 26, 2024
Date Reported : Dec 11, 2024
Report Number : 3169922-1

Page 2 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-1 |
| Sampled Date | Nov 25, 2024 3:30 PM |
| Sample Description | UD |
| Location | 6711UD |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|-----------------------|------|--------|-----------|--------------|---|------------------|
| Metals Testing | | | | | | |
| Magnesium | mg/L | 0.03 | 0.05 | 67.7 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Manganese | mg/L | 0.0003 | 0.0005 | 3.70 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Mercury | mg/L | 0.0001 | 0.0005 | Not Detected | In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E | Bangkok |
| Molybdenum | mg/L | 0.0003 | 0.0005 | 0.02 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Nickel | mg/L | 0.0003 | 0.0005 | 0.0008 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Potassium | mg/L | 0.03 | 0.05 | 26.1 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Selenium | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Silver | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Sodium | mg/L | 0.03 | 0.05 | 102 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Water Testing | | | | | | |
| Ammonia Nitrogen * | mg/L | - | 0.06 | 3.15 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F) | Bangkok |

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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563

Date Received : Nov 26, 2024

Date Reported : Dec 11, 2024

Report Number : 3169922-1

Page 3 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-1 |
| Sampled Date | Nov 25, 2024 3:30 PM |
| Sample Description | UD |
| Location | 6711UD |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|---|------|-------|-----------|--------------|--|------------------|
| Water Testing | | | | | | |
| Bicarbonate Alkalinity as CaCO ₃ * | mg/L | - | 1 | 121 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | <2.0 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Bangkok |
| Carbonate Alkalinity as CaCO ₃ * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Carbonate Hardness as CaCO ₃ * | mg/L | - | 1 | 121 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Chloride * | mg/L | 0.15 | 0.5 | 13.0 | ISE Application | Bangkok |
| COD | mg/L | - | 25 | <25 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D | Bangkok |
| Cyanide as CN | mg/L | 0.002 | 0.005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E) | Bangkok |
| Hydroxide Alkalinity as CaCO ₃ * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Nitrate as N * | mg/L | 0.06 | 0.2 | 0.68 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ E | Bangkok |
| Non-Carbonate Hardness as CaCO ₃ * | mg/L | - | 1 | 1126 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Phenolphthalein Alkalinity as CaCO ₃ * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Phosphate as P * | mg/L | 0.005 | 0.01 | 0.01 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E) | Bangkok |

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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563

Date Received : Nov 26, 2024
Date Reported : Dec 11, 2024
Report Number : 3169922-1

Page 4 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-1 |
| Sampled Date | Nov 25, 2024 3:30 PM |
| Sample Description | UD |
| Location | 6711UD |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-------|-----------|--------------|--|------------------|
| Water Testing | | | | | | |
| Residual Alkalinity * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Sulfate * | mg/L | 0.5 | 2 | 1382 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E) | Bangkok |
| Total Alkalinity as CaCO3 * | mg/L | - | 1 | 121 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 1312 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C | Bangkok |
| Total Organic Carbon * | mg/L | 0.03 | 0.1 | 0.94 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5310 B | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D | Bangkok |
| Weak Acid Dissociable Cyanide * | mg/L | 0.002 | 0.005 | Not Detected | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I) | Bangkok |

Remark :

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

Approved by _____

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S:\Reports_All\No.0009 (202411PM)



TESTING
No.0009

Lot ID: 24131563
Date Received : Nov 26, 2024
Date Reported : Dec 11, 2024
Report Number : 3169922-1

Page 5 of 8

| | |
|-------------------------|--|
| Sample Number | 24131563-2 |
| Sampled Date | Nov 25, 2024 4:00 PM |
| Sample Description | UD2 |
| Location | 6711UD2 |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------|------|--------|-----------|--------------|--|------------------|
| Metals Testing | | | | | | |
| Aluminium | mg/L | 0.003 | 0.005 | 0.02 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Antimony | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Arsenic | mg/L | 0.0003 | 0.0005 | 0.02 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Barium | mg/L | 0.0003 | 0.0005 | 0.03 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Boron | mg/L | 0.003 | 0.005 | 0.19 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Cadmium | mg/L | 0.0003 | 0.0005 | 0.0007 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Calcium | mg/L | 0.03 | 0.05 | 479 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Chromium | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Cobalt | mg/L | 0.0003 | 0.0005 | 0.07 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Copper | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Iron | mg/L | 0.003 | 0.005 | 2.40 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Lead | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |

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2244-41/EMAL N12

S:\Reports\ All NoGL (04/10/86)



Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563

Date Received : Nov 26, 2024

Date Reported : Dec 11, 2024

Report Number : 3169922-1

Page 6 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-2 |
| Sampled Date | Nov 25, 2024 4:00 PM |
| Sample Description | UD2 |
| Location | 6711UD2 |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|-----------------------|------|--------|-----------|--------------|---|------------------|
| Metals Testing | | | | | | |
| Magnesium | mg/L | 0.03 | 0.05 | 10.7 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Manganese | mg/L | 0.0003 | 0.0005 | 2.83 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Mercury | mg/L | 0.0001 | 0.0005 | Not Detected | In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E | Bangkok |
| Molybdenum | mg/L | 0.0003 | 0.0005 | 2.83 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Nickel | mg/L | 0.0003 | 0.0005 | <0.0005 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Potassium | mg/L | 0.03 | 0.05 | 100 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Selenium | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Silver | mg/L | 0.0003 | 0.0005 | Not Detected | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Sodium | mg/L | 0.03 | 0.05 | 390 | In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7 | Bangkok |
| Zinc | mg/L | 0.003 | 0.005 | 0.04 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F | Bangkok |
| Water Testing | | | | | | |
| Ammonia Nitrogen * | mg/L | - | 0.06 | 25.8 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NH3 (B, F) | Bangkok |

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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563

Date Received : Nov 26, 2024

Date Reported : Dec 11, 2024

Report Number : 3169922-1

Page 7 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-2 |
| Sampled Date | Nov 25, 2024 4:00 PM |
| Sample Description | UD2 |
| Location | 6711UD2 |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|---|------|-------|-----------|--------------|--|------------------|
| Water Testing | | | | | | |
| Bicarbonate Alkalinity as CaCO ₃ * | mg/L | - | 1 | 51 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| BOD (5 days at 20 degree C) | mg/L | - | 2.0 | 10.1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G | Bangkok |
| Carbonate Alkalinity as CaCO ₃ * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Carbonate Hardness as CaCO ₃ * | mg/L | - | 1 | 51 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Chloride * | mg/L | 0.15 | 0.5 | 101 | ISE Application | Bangkok |
| COD | mg/L | - | 25 | 46 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5220 D | Bangkok |
| Cyanide as CN | mg/L | 0.002 | 0.005 | 6.020 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E) | Bangkok |
| Hydroxide Alkalinity as CaCO ₃ * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Nitrate as N * | mg/L | 0.06 | 0.2 | Not Detected | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ E | Bangkok |
| Non-Carbonate Hardness as CaCO ₃ * | mg/L | - | 1 | 1368 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Phenolphthalein Alkalinity as CaCO ₃ * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Phosphate as P * | mg/L | 0.005 | 0.01 | Not Detected | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E) | Bangkok |

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S:\Reports\All\10/88 (241PM)



Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 47583
Project Name : Water Project
Project Location : CHATREE

Lot ID: 24131563

Date Received : Nov 26, 2024

Date Reported : Dec 11, 2024

Report Number : 3169922-1

Page 8 of 8

| | |
|--------------------------------|--|
| Sample Number | 24131563-2 |
| Sampled Date | Nov 25, 2024 4:00 PM |
| Sample Description | UD2 |
| Location | 6711UD2 |
| Date Analysis Commenced | Nov 27, 2024 |
| Condition of Sample | Contained in two glass vials and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA) |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--|------|-------|-----------|--------|--|------------------|
| Water Testing | | | | | | |
| Residual Alkalinity * | mg/L | - | 1 | <1 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Sulfate * | mg/L | 0.5 | 2 | 2441 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E) | Bangkok |
| Total Alkalinity as CaCO ₃ * | mg/L | - | 1 | 51 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B | Bangkok |
| Total Dissolved solids Dried at 180 degree C | mg/L | - | 5 | 2956 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C | Bangkok |
| Total Organic Carbon * | mg/L | 0.03 | 0.1 | 10.7 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5310 B | Bangkok |
| Total Suspended Solids Dried at 103-105 degree C | mg/L | - | 5 | <5 | Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D | Bangkok |
| Weak Acid Dissociable Cyanide * | mg/L | 0.002 | 0.005 | 5.908 | Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I) | Bangkok |

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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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 2 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-1 |
| Sampled Date | Oct 16, 2024 9:45 AM |
| Sample Description | ผ้าขาวฝุ่น SA1 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|-----------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.5 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 60.2 | Hydrometer | Bangkok |
| Silt | % | - | - | 19.4 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Clay Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 29.1 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.1 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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S:\Report\AI_NSG\prt (3168PM)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 1 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-1 |
| Sampled Date | Oct 16, 2024 9:45 AM |
| Sample Description | ผ้าขาวฝุ่น SA1 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 13.1 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 64.6 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 5.6 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 2.75 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 8.32 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 25.8 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 23307 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 14.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 1344 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 230 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 377 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 50.9 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 20.3 | Hydrometer | Bangkok |

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 4 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-2 |
| Sample Date | Oct 15, 2024 10:00 AM |
| Sample Description | ผ้าขาวฝุ่น SA2 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.6 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 60.3 | Hydrometer | Bangkok |
| Silt | % | - | - | 23.6 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 27.9 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 5.5 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 3 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-2 |
| Sample Date | Oct 15, 2024 10:00 AM |
| Sample Description | ผ้าขาวฝุ่น SA2 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | <10 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 27.7 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 4.0 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 1.49 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 34.9 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 38.2 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 104764 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 13.7 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 1545 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 266 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 365 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 39.8 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 16.1 | Hydrometer | Bangkok |

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS Laboratory Group (Thailand) Co., Ltd. and the analysis was performed in the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Section Head

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 6 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-3 |
| Sample Date | Oct 16, 2024 10:05 AM |
| Sample Description | ผ้าขาวฝุ่น SA3 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.7 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 61.4 | Hydrometer | Bangkok |
| Silt | % | - | - | 31.0 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 27.7 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.2 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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2344-42/EMAIL

S:\Report\AI_NSG\prt (3168PM)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 5 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-3 |
| Sample Date | Oct 16, 2024 10:05 AM |
| Sample Description | ผ้าขาวฝุ่น SA3 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | <10 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 32.0 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 4.9 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 2.61 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 24.3 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 27.8 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 52198 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 14.9 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 1445 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 239 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 780 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 38.7 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 7.6 | Hydrometer | Bangkok |

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2344-42/EMAIL

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 8 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-4 |
| Sampled Date | Oct 15, 2024 9:25 AM |
| Sample Description | ผ้าขาวฝุ่น SA4 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 2.5 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 77.5 | Hydrometer | Bangkok |
| Silt | % | - | - | 19.0 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Loamy sand | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 30.5 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.5 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. ALS Laboratory Group (Thailand) Co., Ltd. strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 7 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-4 |
| Sampled Date | Oct 15, 2024 9:25 AM |
| Sample Description | ผ้าขาวฝุ่น SA4 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 11.7 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 108 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 7.3 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 3.14 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 14.8 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 50.4 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 43148 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 39.7 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 2438 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 311 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 549 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 60.1 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 3.5 | Hydrometer | Bangkok |

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2344-42/EMAIL

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 10 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-5 |
| Sampled Date | Oct 16, 2024 9:00 AM |
| Sample Description | ผ้าขาวฝุ่น SA5 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 2.4 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 69.8 | Hydrometer | Bangkok |
| Silt | % | - | - | 22.8 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 33.6 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.0 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 9 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-5 |
| Sampled Date | Oct 16, 2024 9:00 AM |
| Sample Description | ผ้าขาวฝุ่น SA5 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | <10 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 22.7 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 1.7 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 2.35 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 30.8 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 45.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 55793 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 16.0 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 1593 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 274 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 635 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 46.0 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 7.4 | Hydrometer | Bangkok |

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ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS LIMITED COMPANY

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 12 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-6 |
| Sampled Date | Oct 15, 2024 2:10 PM |
| Sample Description | ผ้าขาวฝุ่น SA6 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|--------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.8 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 85.5 | Hydrometer | Bangkok |
| Silt | % | - | - | 12.0 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sand | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 28.8 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 7.7 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 11 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-6 |
| Sampled Date | Oct 15, 2024 2:10 PM |
| Sample Description | ผ้าขาวฝุ่น SA6 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | <10 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 105 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 14.0 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 3.39 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 44.8 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 25.6 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 23385 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 17.4 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 835 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 253 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 491 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 54.4 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 2.5 | Hydrometer | Bangkok |

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ALS LABORATORY GROUP (THAILAND) CO., LTD. AN ALS LIMITED COMPANY

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 14 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-7 |
| Sampled Date | Oct 15, 2024 1:40 PM |
| Sample Description | ผ้าขาวฝุ่น SA7 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.5 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 73.7 | Hydrometer | Bangkok |
| Silt | % | - | - | 26.3 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Loamy sand | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 24.5 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.8 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 13 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-7 |
| Sampled Date | Oct 15, 2024 1:40 PM |
| Sample Description | ผ้าขาวฝุ่น SA7 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 14.7 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 90.1 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 2.0 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 1.85 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 42.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 21.3 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 40085 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 5.62 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 831 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 249 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 295 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 98.0 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 0.0 | Hydrometer | Bangkok |

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 16 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-8 |
| Sample Date | Oct 15, 2024 10:20 AM |
| Sample Description | ผ้าขาวฝุ่น SA8 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.8 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 54.2 | Hydrometer | Bangkok |
| Silt | % | - | - | 34.8 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 32.3 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 5.6 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 15 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-8 |
| Sample Date | Oct 15, 2024 10:20 AM |
| Sample Description | ผ้าขาวฝุ่น SA8 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 10.4 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 107 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 13.2 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 2.91 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 7.09 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 31.2 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 24570 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 7.53 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 342 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 293 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 175 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 50.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 11.0 | Hydrometer | Bangkok |

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 18 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-9 |
| Sample Date | Oct 15, 2024 10:50 AM |
| Sample Description | ผ้าขาวฝุ่น SA9 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|-----------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 2.1 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 62.3 | Hydrometer | Bangkok |
| Silt | % | - | - | 10.9 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Clay Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 69.0 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.0 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 17 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-9 |
| Sample Date | Oct 15, 2024 10:50 AM |
| Sample Description | ผ้าขาวฝุ่น SA9 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 16.6 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 37.3 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 2.9 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 0.77 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 4.99 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 19.3 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 28652 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 8.57 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 512 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 106 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 252 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 78.0 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 26.8 | Hydrometer | Bangkok |

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 20 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-10 |
| Sampled Date | Oct 15, 2024 9:10 AM |
| Sample Description | ผ้าขาวฝุ่น SA10 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|-----------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.1 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 74.4 | Hydrometer | Bangkok |
| Silt | % | - | - | 19.0 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sand loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 23.1 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.0 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 19 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-10 |
| Sampled Date | Oct 15, 2024 9:10 AM |
| Sample Description | ผ้าขาวฝุ่น SA10 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 10.6 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 30.2 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 1.8 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 1.52 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 32.6 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 33.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 65819 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 15.3 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 994 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 279 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 216 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 69.9 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 6.6 | Hydrometer | Bangkok |

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 22 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-11 |
| Sampled Date | Oct 15, 2024 3:50 PM |
| Sample Description | ผ้าขาวฝุ่น SA11 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 1.4 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 70.6 | Hydrometer | Bangkok |
| Silt | % | - | - | 18.9 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 22.8 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 5.8 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 21 of 24

| | |
|--------------------------------|--------------------------------|
| Sample Number | 24130688-11 |
| Sampled Date | Oct 15, 2024 3:50 PM |
| Sample Description | ผ้าขาวฝุ่น SA11 |
| Date Analysis Commenced | Nov 16, 2024 |
| Condition of Sample | Packed in two plastic zip bags |

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | <10 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 37.1 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | <1.0 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 1.58 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 4.93 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 16.4 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 20931 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 5.91 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 361 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 232 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 296 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 29.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 10.5 | Hydrometer | Bangkok |

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 24 of 24

Sample Number 24130688-12
Sample Date Oct 15, 2024 2:30 PM
Sample Description ฟ้าผ่าดิน SA12
Date Analysis Commenced Nov 16, 2024
Condition of Sample Packed in two plastic zip bags

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|----------------------------|---------|-----|-----------|------------|---|------------------|
| Physical Parameters | | | | | | |
| Moisture | % | - | 0.1 | 2.1 | In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer | Bangkok |
| Sand | % | - | - | 54.6 | Hydrometer | Bangkok |
| Silt | % | - | - | 27.0 | Hydrometer | Bangkok |
| Soil Texture | - | - | - | Sandy Loam | Hydrometer | Bangkok |
| Soil Testing | | | | | | |
| Cation Exchange Capacity | cmol/kg | - | 1 | 31.5 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| pH aqueous phase 50% (w/v) | - | - | - | 6.9 | United States Environmental Protection Agency, EPA Method 9045 D | Bangkok |

Note : Analysis Results expressed on dry basis.

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1000495
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 24130688
Date Received :Nov 15, 2024
Date Reported :Jan 09, 2025
Report Number :3167532-1

Page 23 of 24

Sample Number 24130688-12
Sample Date Oct 15, 2024 2:30 PM
Sample Description ฟ้าผ่าดิน SA12
Date Analysis Commenced Nov 16, 2024
Condition of Sample Packed in two plastic zip bags

| Analyte | Unit | LOD | LOQ (LOR) | Result | Method | Testing Location |
|--------------------------------------|--------------|-----|-----------|--------|---|------------------|
| Chemical Testing | | | | | | |
| Chloride | mg/kg | - | 10 | 13.9 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Conductivity aqueous phase 20% (w/v) | micromhos/cm | - | - | 34.9 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Cyanide | mg/kg | - | 0.2 | <0.2 | United States Environmental Protection Agency, EPA Method 9013 and 9010 B | Bangkok |
| Nitrate as N | mg/kg | - | 1.0 | 2.4 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Organic matter | % | - | 0.05 | 0.99 | Soil Chemical Methods - Australasia (2011) | Bangkok |
| Metals Testing | | | | | | |
| Arsenic | mg/kg | - | 0.50 | 8.42 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Cadmium | mg/kg | - | 0.50 | <0.50 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Copper | mg/kg | - | 1.00 | 28.3 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Iron | mg/kg | - | 1.00 | 24434 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Lead | mg/kg | - | 1.00 | 9.07 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Manganese | mg/kg | - | 1.00 | 806 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Mercury | mg/kg | - | 0.10 | <0.10 | United States Environmental Protection Agency, EPA Method 7473 | Bangkok |
| Phosphorus | mg/kg | - | 20.0 | 199 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Potassium | mg/kg | - | 20.0 | 575 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Zinc | mg/kg | - | 1.00 | 47.5 | United States Environmental Protection Agency, EPA Method 3050 B and 6010 D | Bangkok |
| Physical Parameters | | | | | | |
| Clay | % | - | - | 18.3 | Hydrometer | Bangkok |

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