เอกสารแนบ 10

หนังสือรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม

MM-N12

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-2
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Dong Long
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	20/08/25 - 21/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	20/08/25 - 21/08/25	mg/m3	-	0.005	0.029	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 :

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Approved by

Scientist (3)

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Analysis / Test Report

TESTING
No.0009

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99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-1
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Dong Long
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	19/08/25 - 20/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	19/08/25 - 20/08/25	mg/m3	-	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

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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-1
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Dong Long
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	19/08/25 - 20/08/25	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)	NEB No.24	Bangkok

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Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-3
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Dong Long
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	21/08/25 - 22/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	21/08/25 - 22/08/25	mg/m3	-	0.005	0.028	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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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-3
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Dong Long
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 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	21/08/25 - 22/08/25	mg/m3	-	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

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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-2
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Dong Long
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.4 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	20/08/25 - 21/08/25	mg/m3	-	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

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Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-9
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.6 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	20/08/25 - 21/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	20/08/25 - 21/08/25	mg/m3	-	0.005	0.063	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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Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-8
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	19/08/25 - 20/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	19/08/25 - 20/08/25	mg/m3	-	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

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99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-4
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	19/08/25 - 20/08/25	mg/m3	-	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

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TESTING
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-10
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.9 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	21/08/25 - 22/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	21/08/25 - 22/08/25	mg/m3	-	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

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99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-6
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.9 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	21/08/25 - 22/08/25	mg/m3	-	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

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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-5
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man
Date Analysis Commenced	Aug 28, 2025
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	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	20/08/25 - 21/08/25	mg/m3	-	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

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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-23
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	20/08/25 - 21/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	20/08/25 - 21/08/25	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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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-22
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	19/08/25 - 20/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	19/08/25 - 20/08/25	mg/m3	-	0.005	0.017	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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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-10
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	19/08/25 - 20/08/25	mg/m3	-	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

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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-24
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	21/08/25 - 22/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	21/08/25 - 22/08/25	mg/m3	-	0.005	0.023	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 :

Remark :
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-12
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	21/08/25 - 22/08/25	mg/m3	-	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

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

Remark :
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-11
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong
Date Analysis Commenced	Aug 28, 2025
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	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	20/08/25 - 21/08/25	mg/m3	-	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

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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-16
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Khao Mor
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	20/08/25 - 21/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	20/08/25 - 21/08/25	mg/m3	-	0.005	0.052	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 :

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-15
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Khao Mor
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	19/08/25 - 20/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	19/08/25 - 20/08/25	mg/m3	-	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

Guideline :
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-7
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Khao Mor
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	19/08/25 - 20/08/25	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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-17
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Khao Mor
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	21/08/25 - 22/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	21/08/25 - 22/08/25	mg/m3	-	0.005	0.045	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 :

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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-9
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Khao Mor
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	21/08/25 - 22/08/25	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

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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-8
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Khao Mor
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	20/08/25 - 21/08/25	mg/m3	-	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

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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-30
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Long Du
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	20/08/25 - 21/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	20/08/25 - 21/08/25	mg/m3	-	0.005	0.028	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 :

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-29
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Long Du
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	19/08/25 - 20/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	19/08/25 - 20/08/25	mg/m3	-	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 :

Remark :
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-13
Sampled Date	Aug 19, 2025
Sample Description	Air Quality
Location	Ban Long Du
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	19/08/25 - 20/08/25	mg/m3	-	0.005	0.014	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

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

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.

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Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

9.10/14

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576236
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382297-1

Sample Number	2576236-31
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Long Du
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	21/08/25 - 22/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	21/08/25 - 22/08/25	mg/m3	-	0.005	0.021	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 :

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.

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-15
Sampled Date	Aug 21, 2025
Sample Description	Air Quality
Location	Ban Long Du
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	33.3 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	21/08/25 - 22/08/25	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

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

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9.10/15

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576279
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382346-1

Sample Number	2576279-14
Sampled Date	Aug 20, 2025
Sample Description	Air Quality
Location	Ban Long Du
Date Analysis Commenced	Aug 28, 2025
Condition of Sample	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.5 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	20/08/25 - 21/08/25	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

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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-2
Sampled Date	Aug 23, 2025
Sample Description	Air Quality
Location	Ban Nong Sang
Date Analysis Commenced	Aug 28, 2025
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	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	23/08/25 - 24/08/25	mg/m3	-	0.005	0.010	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	23/08/25 - 24/08/25	mg/m3	-	0.005	0.015	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 :

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9.10/16

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-1
Sampled Date	Aug 22, 2025
Sample Description	Air Quality
Location	Ban Nong Sang
Date Analysis Commenced	Aug 28, 2025
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	31.7 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/08/25 - 23/08/25	mg/m3	-	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	22/08/25 - 23/08/25	mg/m3	-	0.005	0.019	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 :

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-3
Sampled Date	Aug 24, 2025
Sample Description	Air Quality
Location	Ban Nong Sang
Date Analysis Commenced	Aug 28, 2025
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	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	24/08/25 - 25/08/25	mg/m3	-	0.005	0.010	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	24/08/25 - 25/08/25	mg/m3	-	0.005	0.016	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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-5
Sampled Date	Aug 23, 2025
Sample Description	Air Quality
Location	Ban Khao Kham
Date Analysis Commenced	Aug 28, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/08/25 - 24/08/25	mg/m3	-	0.005	0.014	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	23/08/25 - 24/08/25	mg/m3	-	0.005	0.017	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
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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-4
Sampled Date	Aug 22, 2025
Sample Description	Air Quality
Location	Ban Khao Kham
Date Analysis Commenced	Aug 28, 2025
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	31.9 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/08/25 - 23/08/25	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	22/08/25 - 23/08/25	mg/m3	-	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

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Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-6
Sampled Date	Aug 24, 2025
Sample Description	Air Quality
Location	Ban Khao Kham
Date Analysis Commenced	Aug 28, 2025
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	32.9 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/08/25 - 25/08/25	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)	NEB No.24	Bangkok
Total Suspended Particulate	24/08/25 - 25/08/25	mg/m3	-	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 :
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Analysis / Test Report

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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-8
Sampled Date	Aug 23, 2025
Sample Description	Air Quality
Location	Ban Tung Thong
Date Analysis Commenced	Aug 28, 2025
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	32.1 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/08/25 - 24/08/25	mg/m3	-	0.005	0.011	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	23/08/25 - 24/08/25	mg/m3	-	0.005	0.014	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
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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-7
Sampled Date	Aug 22, 2025
Sample Description	Air Quality
Location	Ban Tung Thong
Date Analysis Commenced	Aug 28, 2025
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	31.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/08/25 - 23/08/25	mg/m3	-	0.005	0.014	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	22/08/25 - 23/08/25	mg/m3	-	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 :

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-9
Sampled Date	Aug 24, 2025
Sample Description	Air Quality
Location	Ban Tung Thong
Date Analysis Commenced	Aug 28, 2025
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	32.9 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/08/25 - 25/08/25	mg/m3	-	0.005	0.011	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	24/08/25 - 25/08/25	mg/m3	-	0.005	0.023	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
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-11
Sampled Date	Aug 23, 2025
Sample Description	Air Quality
Location	Ban Mai Klong Ta Lud
Date Analysis Commenced	Aug 28, 2025
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	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	23/08/25 - 24/08/25	mg/m3	-	0.005	0.008	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	23/08/25 - 24/08/25	mg/m3	-	0.005	0.011	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 :

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-10
Sampled Date	Aug 22, 2025
Sample Description	Air Quality
Location	Ban Mai Klong Ta Lud
Date Analysis Commenced	Aug 28, 2025
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	31.6 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	22/08/25 - 23/08/25	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)	NEB No.24	Bangkok
Total Suspended Particulate	22/08/25 - 23/08/25	mg/m3	-	0.005	0.021	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 :

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576273
Date Received : Aug 27, 2025
Date Reported : Sep 04, 2025
Report Number : 3382340-1

Sample Number	2576273-12
Sampled Date	Aug 24, 2025
Sample Description	Air Quality
Location	Ban Mai Klong Ta Lud
Date Analysis Commenced	Aug 28, 2025
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	32.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	24/08/25 - 25/08/25	mg/m3	-	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)	NEB No.24	Bangkok
Total Suspended Particulate	24/08/25 - 25/08/25	mg/m3	-	0.005	0.012	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 :

Remark :
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Approved by

Scientist (3)

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MM-N12

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-2
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Ban Dong Long (GPS 47Q 0678206, 1802191)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	11/11/25 - 12/11/25	mg/m3	-	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	11/11/25 - 12/11/25	mg/m3	-	0.005	0.042	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 :

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Supervisor

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-1
Sampled Date	Nov 10, 2025
Sample Description	Air Quality
Location	Ban Dong Long (GPS 47Q 0678206, 1802191)
Date Analysis Commenced	Nov 21, 2025
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	29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	10/11/25 - 11/11/25	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	10/11/25 - 11/11/25	mg/m3	-	0.005	0.025	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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-3
Sampled Date	Nov 12, 2025
Sample Description	Air Quality
Location	Ban Dong Long (GPS 47Q 0678206, 1802191)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	12/11/25 - 13/11/25	mg/m3	-	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	12/11/25 - 13/11/25	mg/m3	-	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

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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-5
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674693, 1802561)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	11/11/25 - 12/11/25	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	11/11/25 - 12/11/25	mg/m3	-	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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NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By :

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9.10/26

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-4
Sampled Date	Nov 10, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674693, 1802561)
Date Analysis Commenced	Nov 21, 2025
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	29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	10/11/25 - 11/11/25	mg/m3	-	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	10/11/25 - 11/11/25	mg/m3	-	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

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

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Analysis / Test Report

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No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-6
Sampled Date	Nov 12, 2025
Sample Description	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674693, 1802561)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	12/11/25 - 13/11/25	mg/m3	-	0.005	0.033	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	12/11/25 - 13/11/25	mg/m3	-	0.005	0.062	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 :

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Analysis / Test Report

TESTING
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Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-23
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	11/11/25 - 12/11/25	mg/m3	-	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	11/11/25 - 12/11/25	mg/m3	-	0.005	0.028	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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9.10/28

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-22
Sampled Date	Nov 10, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785)
Date Analysis Commenced	Nov 21, 2025
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	29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	10/11/25 - 11/11/25	mg/m3	-	0.005	0.014	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	10/11/25 - 11/11/25	mg/m3	-	0.005	0.021	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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-24
Sampled Date	Nov 12, 2025
Sample Description	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676116, 1798785)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	12/11/25 - 13/11/25	mg/m3	-	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	12/11/25 - 13/11/25	mg/m3	-	0.005	0.025	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
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MM-N12

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-11
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675723, 1804284)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	11/11/25 - 12/11/25	mg/m3	-	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
Total Suspended Particulate	11/11/25 - 12/11/25	mg/m3	-	0.005	0.050	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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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-10
Sampled Date	Nov 10, 2025
Sample Description	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675723, 1804284)
Date Analysis Commenced	Nov 21, 2025
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	29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	10/11/25 - 11/11/25	mg/m3	-	0.005	0.016	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	10/11/25 - 11/11/25	mg/m3	-	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

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

Remark :
- LOD : Limit of Detection
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-12
Sampled Date	Nov 12, 2025
Sample Description	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675723, 1804284)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	12/11/25 - 13/11/25	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	12/11/25 - 13/11/25	mg/m3	-	0.005	0.068	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 :

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MM-N12

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-26
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Ban Long Du (GPS 47Q 0671962, 1799044)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	11/11/25 - 12/11/25	mg/m3	-	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
Total Suspended Particulate	11/11/25 - 12/11/25	mg/m3	-	0.005	0.028	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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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-25
Sampled Date	Nov 10, 2025
Sample Description	Air Quality
Location	Ban Long Du (GPS 47Q 0671962, 1799044)
Date Analysis Commenced	Nov 21, 2025
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	29.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	10/11/25 - 11/11/25	mg/m3	-	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	10/11/25 - 11/11/25	mg/m3	-	0.005	0.021	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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-27
Sampled Date	Nov 12, 2025
Sample Description	Air Quality
Location	Ban Long Du (GPS 47Q 0671962, 1799044)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	12/11/25 - 13/11/25	mg/m3	-	0.005	0.023	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	12/11/25 - 13/11/25	mg/m3	-	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

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Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-8
Sampled Date	Nov 14, 2025
Sample Description	Air Quality
Location	Ban Nong Sang (GPS 47Q 0678405, 1805760)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	14/11/25 - 15/11/25	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)	NEB No.24	Bangkok
Total Suspended Particulate	14/11/25 - 15/11/25	mg/m3	-	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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Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-7
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Ban Nong Sang (GPS 47Q 0678405, 1805760)
Date Analysis Commenced	Nov 21, 2025
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	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	13/11/25 - 14/11/25	mg/m3	-	0.005	0.016	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	13/11/25 - 14/11/25	mg/m3	-	0.005	0.023	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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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-9
Sampled Date	Nov 15, 2025
Sample Description	Air Quality
Location	Ban Nong Sang (GPS 47Q 0678405, 1805760)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	15/11/25 - 16/11/25	mg/m3	-	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)	NEB No.24	Bangkok
Total Suspended Particulate	15/11/25 - 16/11/25	mg/m3	-	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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-14
Sampled Date	Nov 14, 2025
Sample Description	Air Quality
Location	Ban Khao Kham (GPS 47Q 0675845, 1806452)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	14/11/25 - 15/11/25	mg/m3	-	0.005	0.023	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	14/11/25 - 15/11/25	mg/m3	-	0.005	0.033	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 :

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Analysis / Test Report

TESTING
No.0009

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99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-13
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Ban Khao Kham (GPS 47Q 0675845, 1806452)
Date Analysis Commenced	Nov 21, 2025
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	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	13/11/25 - 14/11/25	mg/m3	-	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	13/11/25 - 14/11/25	mg/m3	-	0.005	0.029	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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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-15
Sampled Date	Nov 15, 2025
Sample Description	Air Quality
Location	Ban Khao Kham (GPS 47Q 0675845, 1806452)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	15/11/25 - 16/11/25	mg/m3	-	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
Total Suspended Particulate	15/11/25 - 16/11/25	mg/m3	-	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 :
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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-17
Sampled Date	Nov 14, 2025
Sample Description	Air Quality
Location	Ban Tung Thong (GPS 47Q 0674666, 1805755)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	14/11/25 - 15/11/25	mg/m3	-	0.005	0.023	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	14/11/25 - 15/11/25	mg/m3	-	0.005	0.031	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
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TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-16
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Ban Tung Thong (GPS 47Q 0674666, 1805755)
Date Analysis Commenced	Nov 21, 2025
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	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	13/11/25 - 14/11/25	mg/m3	-	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
Total Suspended Particulate	13/11/25 - 14/11/25	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

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

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Analysis / Test Report

TESTING
No.0009

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P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-18
Sampled Date	Nov 15, 2025
Sample Description	Air Quality
Location	Ban Tung Thong (GPS 47Q 0674666, 1805755)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	15/11/25 - 16/11/25	mg/m3	-	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	15/11/25 - 16/11/25	mg/m3	-	0.005	0.026	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 :

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

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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 : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-20
Sampled Date	Nov 14, 2025
Sample Description	Air Quality
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	14/11/25 - 15/11/25	mg/m3	-	0.005	0.023	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	14/11/25 - 15/11/25	mg/m3	-	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

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

Remark :
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Supervisor

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9.1.10/40

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-19
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162)
Date Analysis Commenced	Nov 21, 2025
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	30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	13/11/25 - 14/11/25	mg/m3	-	0.005	0.016	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	13/11/25 - 14/11/25	mg/m3	-	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 :

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MM-N12

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102359
Date Received : Nov 19, 2025
Date Reported : Nov 27, 2025
Report Number : 3444449-1

Sample Number	25102359-21
Sampled Date	Nov 15, 2025
Sample Description	Air Quality
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676587, 1807162)
Date Analysis Commenced	Nov 21, 2025
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	32.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	15/11/25 - 16/11/25	mg/m3	-	0.005	0.023	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	15/11/25 - 16/11/25	mg/m3	-	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 :

Remark :
- LOD : Limit of Detection
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Supervisor

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395841-1

Sample Number	2576285-2
Parameter	Air Quality
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)
Measurement Date	Aug 20 - Aug 21, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597155

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	49.6	78.0	40.1
02:00 PM - 03:00 PM	45.8	71.7	38.8
03:00 PM - 04:00 PM	46.2	65.1	38.9
04:00 PM - 05:00 PM	45.6	66.4	37.3
05:00 PM - 06:00 PM	45.8	63.6	37.8
06:00 PM - 07:00 PM	45.4	69.4	38.2
07:00 PM - 08:00 PM	49.4	68.9	44.6
08:00 PM - 09:00 PM	49.0	61.4	48.3
09:00 PM - 10:00 PM	49.2	69.2	48.4
10:00 PM - 11:00 PM	48.3	67.4	46.5
11:00 PM - 12:00 AM	51.2	86.2	46.1
12:00 AM - 01:00 AM	46.9	66.3	44.6
01:00 AM - 02:00 AM	45.9	71.7	42.6
02:00 AM - 03:00 AM	44.0	52.7	42.6
03:00 AM - 04:00 AM	42.9	65.6	40.5
04:00 AM - 05:00 AM	44.1	64.8	41.4
05:00 AM - 06:00 AM	49.2	71.1	45.8
06:00 AM - 07:00 AM	47.1	68.3	41.5
07:00 AM - 08:00 AM	47.4	66.0	39.8
08:00 AM - 09:00 AM	47.2	70.3	38.1
09:00 AM - 10:00 AM	49.3	70.8	37.0
10:00 AM - 11:00 AM	49.0	69.6	37.2
11:00 AM - 12:00 PM	44.7	71.7	35.1
12:00 PM - 01:00 PM	45.6	79.0	34.8
Leq Average 24 hrs. (dB(A))	47.5		
Lmax (dB(A))		86.2	
L90 (dB(A))			40.1
Ldn (dB(A))	53.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395840-1

Sample Number	2576285-1
Parameter	Air Quality
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)
Measurement Date	Aug 19 - Aug 20, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597155

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	46.3	77.6	39.0
02:00 PM - 03:00 PM	44.0	64.8	37.4
03:00 PM - 04:00 PM	46.0	65.0	40.7
04:00 PM - 05:00 PM	43.5	59.8	37.2
05:00 PM - 06:00 PM	44.8	67.6	39.8
06:00 PM - 07:00 PM	48.0	82.7	39.3
07:00 PM - 08:00 PM	52.6	66.9	50.3
08:00 PM - 09:00 PM	53.6	73.5	52.3
09:00 PM - 10:00 PM	52.0	69.9	51.1
10:00 PM - 11:00 PM	51.8	68.6	50.2
11:00 PM - 12:00 AM	49.6	62.1	48.0
12:00 AM - 01:00 AM	49.1	69.8	45.2
01:00 AM - 02:00 AM	48.5	70.9	46.3
02:00 AM - 03:00 AM	46.1	55.6	43.2
03:00 AM - 04:00 AM	45.7	54.8	43.5
04:00 AM - 05:00 AM	47.4	61.5	45.4
05:00 AM - 06:00 AM	49.8	72.5	47.6
06:00 AM - 07:00 AM	49.0	74.5	42.8
07:00 AM - 08:00 AM	48.4	73.8	39.5
08:00 AM - 09:00 AM	49.3	83.8	39.7
09:00 AM - 10:00 AM	50.1	74.9	38.8
10:00 AM - 11:00 AM	44.7	68.9	38.4
11:00 AM - 12:00 PM	43.2	73.0	38.4
12:00 PM - 01:00 PM	44.4	68.6	39.2
Leq Average 24 hrs. (dB(A))	48.8		
Lmax (dB(A))		83.8	
L90 (dB(A))			40.7
Ldn (dB(A))	55.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395842-1

Sample Number	2576285-3
Parameter	Air Quality
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)
Measurement Date	Aug 21 - Aug 22, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597155

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	44.5	70.6	38.3
02:00 PM - 03:00 PM	43.9	65.2	37.2
03:00 PM - 04:00 PM	48.3	75.4	39.1
04:00 PM - 05:00 PM	46.4	80.3	38.4
05:00 PM - 06:00 PM	42.3	59.4	36.9
06:00 PM - 07:00 PM	42.5	64.0	36.4
07:00 PM - 08:00 PM	48.6	67.7	45.0
08:00 PM - 09:00 PM	50.5	62.6	49.0
09:00 PM - 10:00 PM	48.2	66.4	46.4
10:00 PM - 11:00 PM	46.7	63.9	45.2
11:00 PM - 12:00 AM	46.1	56.1	44.6
12:00 AM - 01:00 AM	48.2	75.1	44.0
01:00 AM - 02:00 AM	45.7	68.4	43.5
02:00 AM - 03:00 AM	44.2	51.1	42.8
03:00 AM - 04:00 AM	43.7	52.3	42.2
04:00 AM - 05:00 AM	46.6	54.3	43.6
05:00 AM - 06:00 AM	50.3	69.8	46.7
06:00 AM - 07:00 AM	47.8	69.3	41.6
07:00 AM - 08:00 AM	49.9	74.4	39.0
08:00 AM - 09:00 AM	46.5	69.9	38.8
09:00 AM - 10:00 AM	46.6	73.3	39.7
10:00 AM - 11:00 AM	41.4	60.3	35.8
11:00 AM - 12:00 PM	42.7	70.3	36.9
12:00 PM - 01:00 PM	47.4	72.8	35.6
Leq Average 24 hrs. (dB(A))	46.9		
Lmax (dB(A))		80.3	
L90 (dB(A))			39.7
Ldn (dB(A))	53.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
Scientist (3)

Approved by
Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395862-1

Sample Number	2576285-23
Parameter	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Measurement Date	Aug 20 - Aug 21, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	48.5	66.6	38.5
04:00 PM - 05:00 PM	55.2	90.9	40.9
05:00 PM - 06:00 PM	52.2	75.5	41.9
06:00 PM - 07:00 PM	51.7	76.3	41.8
07:00 PM - 08:00 PM	50.1	70.9	44.7
08:00 PM - 09:00 PM	47.6	62.9	44.4
09:00 PM - 10:00 PM	47.4	75.3	44.3
10:00 PM - 11:00 PM	46.7	59.3	43.9
11:00 PM - 12:00 AM	45.1	65.5	42.0
12:00 AM - 01:00 AM	47.0	56.7	42.6
01:00 AM - 02:00 AM	46.0	60.0	41.5
02:00 AM - 03:00 AM	43.1	60.4	40.7
03:00 AM - 04:00 AM	43.5	64.4	40.1
04:00 AM - 05:00 AM	46.3	66.1	41.1
05:00 AM - 06:00 AM	50.2	68.1	42.0
06:00 AM - 07:00 AM	52.8	74.4	45.2
07:00 AM - 08:00 AM	50.1	72.4	41.3
08:00 AM - 09:00 AM	48.3	68.6	40.2
09:00 AM - 10:00 AM	46.5	66.4	39.3
10:00 AM - 11:00 AM	47.0	68.2	39.0
11:00 AM - 12:00 PM	48.3	69.7	37.6
12:00 PM - 01:00 PM	46.6	68.8	36.6
01:00 PM - 02:00 PM	48.3	72.0	37.6
02:00 PM - 03:00 PM	47.9	69.6	37.4
Leq Average 24 hrs. (dB(A))	49.2		
Lmax (dB(A))		90.9	
L90 (dB(A))			41.1
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) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395861-1

Sample Number	2576285-22
Parameter	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Measurement Date	Aug 19 - Aug 20, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	54.8	93.8	39.7
04:00 PM - 05:00 PM	49.3	75.9	40.9
05:00 PM - 06:00 PM	52.8	74.0	42.2
06:00 PM - 07:00 PM	52.5	76.5	40.3
07:00 PM - 08:00 PM	53.2	70.5	45.5
08:00 PM - 09:00 PM	52.0	62.0	45.3
09:00 PM - 10:00 PM	52.3	64.0	45.1
10:00 PM - 11:00 PM	49.1	56.2	43.2
11:00 PM - 12:00 AM	44.4	65.7	40.3
12:00 AM - 01:00 AM	43.1	58.3	41.1
01:00 AM - 02:00 AM	43.5	57.9	41.0
02:00 AM - 03:00 AM	42.1	58.4	38.2
03:00 AM - 04:00 AM	48.3	58.8	38.7
04:00 AM - 05:00 AM	50.9	65.5	41.7
05:00 AM - 06:00 AM	52.0	69.1	43.7
06:00 AM - 07:00 AM	52.6	69.3	44.4
07:00 AM - 08:00 AM	51.7	69.3	42.7
08:00 AM - 09:00 AM	49.9	70.5	40.6
09:00 AM - 10:00 AM	48.5	68.6	39.0
10:00 AM - 11:00 AM	49.0	72.1	39.0
11:00 AM - 12:00 PM	48.4	67.1	38.2
12:00 PM - 01:00 PM	46.9	66.0	36.5
01:00 PM - 02:00 PM	47.3	65.7	37.4
02:00 PM - 03:00 PM	48.1	68.0	37.9
Leq Average 24 hrs. (dB(A))	50.4		
Lmax (dB(A))		93.8	
L90 (dB(A))			40.6
Ldn (dB(A))	55.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395863-1

Sample Number	2576285-24
Parameter	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Measurement Date	Aug 21 - Aug 22, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858516

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	49.5	70.2	38.7
04:00 PM - 05:00 PM	50.5	70.9	40.0
05:00 PM - 06:00 PM	50.9	69.3	41.1
06:00 PM - 07:00 PM	51.0	77.6	40.5
07:00 PM - 08:00 PM	48.5	69.0	44.5
08:00 PM - 09:00 PM	46.9	65.7	43.5
09:00 PM - 10:00 PM	51.8	85.0	41.9
10:00 PM - 11:00 PM	51.7	82.7	41.5
11:00 PM - 12:00 AM	55.4	86.1	42.3
12:00 AM - 01:00 AM	45.0	58.5	42.8
01:00 AM - 02:00 AM	45.4	59.8	43.4
02:00 AM - 03:00 AM	44.0	59.0	40.9
03:00 AM - 04:00 AM	42.7	57.4	40.4
04:00 AM - 05:00 AM	44.2	57.7	41.4
05:00 AM - 06:00 AM	51.2	75.1	42.6
06:00 AM - 07:00 AM	53.0	72.6	45.3
07:00 AM - 08:00 AM	50.7	67.3	43.8
08:00 AM - 09:00 AM	49.7	69.4	42.2
09:00 AM - 10:00 AM	48.8	66.4	40.4
10:00 AM - 11:00 AM	48.7	70.9	38.5
11:00 AM - 12:00 PM	49.1	71.3	37.6
12:00 PM - 01:00 PM	48.1	75.0	37.8
01:00 PM - 02:00 PM	46.4	62.5	37.8
02:00 PM - 03:00 PM	50.7	82.6	38.9
Leq Average 24 hrs. (dB(A))	49.9		
Lmax (dB(A))		86.1	
L90 (dB(A))			41.1
Ldn (dB(A))	56.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Scientist (3)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395869-1

Sample Number	2576285-30
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Aug 20 - Aug 21, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	42.7	63.1	35.9
06:00 PM - 07:00 PM	46.3	59.4	37.2
07:00 PM - 08:00 PM	58.7	63.6	50.9
08:00 PM - 09:00 PM	60.1	63.7	58.8
09:00 PM - 10:00 PM	60.2	63.5	58.3
10:00 PM - 11:00 PM	60.2	64.6	57.7
11:00 PM - 12:00 AM	59.3	66.2	55.4
12:00 AM - 01:00 AM	51.7	59.2	48.8
01:00 AM - 02:00 AM	51.0	58.1	48.0
02:00 AM - 03:00 AM	50.5	57.7	47.1
03:00 AM - 04:00 AM	49.5	57.2	46.2
04:00 AM - 05:00 AM	52.4	65.6	48.2
05:00 AM - 06:00 AM	54.8	60.7	52.5
06:00 AM - 07:00 AM	52.7	64.0	48.1
07:00 AM - 08:00 AM	55.8	80.4	43.6
08:00 AM - 09:00 AM	45.7	68.8	38.4
09:00 AM - 10:00 AM	44.5	64.4	36.6
10:00 AM - 11:00 AM	43.8	63.9	36.7
11:00 AM - 12:00 PM	41.6	64.1	35.1
12:00 PM - 01:00 PM	43.3	66.6	36.1
01:00 PM - 02:00 PM	42.4	61.4	35.6
02:00 PM - 03:00 PM	40.7	65.9	35.2
03:00 PM - 04:00 PM	41.4	71.1	33.7
04:00 PM - 05:00 PM	45.9	75.1	35.2
Leq Average 24 hrs. (dB(A))	54.3		
Lmax (dB(A))		80.4	
L90 (dB(A))			43.6
Ldn (dB(A))	61.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395868-1

Sample Number	2576285-29
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Aug 19 - Aug 20, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	44.7	67.8	37.4
06:00 PM - 07:00 PM	43.5	63.4	35.6
07:00 PM - 08:00 PM	42.8	62.9	35.7
08:00 PM - 09:00 PM	40.6	63.1	34.1
09:00 PM - 10:00 PM	44.4	64.8	41.3
10:00 PM - 11:00 PM	46.3	56.0	41.9
11:00 PM - 12:00 AM	45.3	59.3	40.8
12:00 AM - 01:00 AM	42.4	59.7	40.0
01:00 AM - 02:00 AM	42.8	63.7	39.4
02:00 AM - 03:00 AM	45.6	65.4	40.4
03:00 AM - 04:00 AM	49.5	67.4	41.3
04:00 AM - 05:00 AM	52.1	73.7	44.5
05:00 AM - 06:00 AM	49.4	71.7	40.6
06:00 AM - 07:00 AM	42.2	60.3	39.3
07:00 AM - 08:00 AM	41.8	56.7	40.0
08:00 AM - 09:00 AM	41.4	65.0	39.0
09:00 AM - 10:00 AM	40.9	59.4	39.1
10:00 AM - 11:00 AM	42.3	66.0	38.9
11:00 AM - 12:00 PM	40.6	59.0	37.4
12:00 PM - 01:00 PM	44.3	61.9	38.1
01:00 PM - 02:00 PM	50.6	73.8	40.5
02:00 PM - 03:00 PM	48.9	71.7	39.3
03:00 PM - 04:00 PM	45.7	69.6	34.8
04:00 PM - 05:00 PM	42.2	63.0	35.2
Leq Average 24 hrs. (dB(A))	46.0		
Lmax (dB(A))		73.8	
L90 (dB(A))			39.3
Ldn (dB(A))	53.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395870-1

Sample Number	2576285-31
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Aug 21 - Aug 22, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	44.8	72.5	34.9
06:00 PM - 07:00 PM	43.1	67.3	36.6
07:00 PM - 08:00 PM	50.4	57.5	48.1
08:00 PM - 09:00 PM	50.7	65.5	49.4
09:00 PM - 10:00 PM	51.4	75.9	49.6
10:00 PM - 11:00 PM	53.2	66.6	50.5
11:00 PM - 12:00 AM	53.7	60.0	51.8
12:00 AM - 01:00 AM	50.6	56.8	47.2
01:00 AM - 02:00 AM	50.9	63.3	47.9
02:00 AM - 03:00 AM	50.2	60.5	48.3
03:00 AM - 04:00 AM	49.8	55.7	47.6
04:00 AM - 05:00 AM	50.1	58.0	48.3
05:00 AM - 06:00 AM	53.9	63.9	50.6
06:00 AM - 07:00 AM	53.7	72.6	47.8
07:00 AM - 08:00 AM	49.5	66.9	43.3
08:00 AM - 09:00 AM	48.0	79.0	41.1
09:00 AM - 10:00 AM	45.1	66.9	39.0
10:00 AM - 11:00 AM	45.5	69.3	37.8
11:00 AM - 12:00 PM	46.5	75.6	36.9
12:00 PM - 01:00 PM	48.2	82.9	37.1
01:00 PM - 02:00 PM	52.8	80.5	37.1
02:00 PM - 03:00 PM	44.6	65.3	39.0
03:00 PM - 04:00 PM	46.2	65.7	34.6
04:00 PM - 05:00 PM	47.8	64.8	35.7
Leq Average 24 hrs. (dB(A))	50.2		
Lmax (dB(A))		82.9	
L90 (dB(A))			43.3
Ldn (dB(A))	58.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
Scientist (3)

Approved by
Section Head

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395848-1

Sample Number	2576285-9
Parameter	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date	Aug 20 - Aug 21, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	46.2	65.4	40.1
03:00 PM - 04:00 PM	50.9	88.9	37.8
04:00 PM - 05:00 PM	42.3	71.4	36.9
05:00 PM - 06:00 PM	46.1	65.7	38.5
06:00 PM - 07:00 PM	47.1	65.7	38.9
07:00 PM - 08:00 PM	45.4	64.0	39.5
08:00 PM - 09:00 PM	45.6	66.3	39.6
09:00 PM - 10:00 PM	49.6	61.2	42.3
10:00 PM - 11:00 PM	52.0	65.2	49.4
11:00 PM - 12:00 AM	50.1	64.6	48.1
12:00 AM - 01:00 AM	51.8	82.1	49.2
01:00 AM - 02:00 AM	51.8	61.8	49.4
02:00 AM - 03:00 AM	52.9	56.5	51.7
03:00 AM - 04:00 AM	55.0	63.3	50.1
04:00 AM - 05:00 AM	50.4	64.2	49.3
05:00 AM - 06:00 AM	51.1	71.8	48.9
06:00 AM - 07:00 AM	49.5	57.2	48.6
07:00 AM - 08:00 AM	49.1	66.1	45.8
08:00 AM - 09:00 AM	49.4	64.7	44.1
09:00 AM - 10:00 AM	49.5	65.5	45.2
10:00 AM - 11:00 AM	49.6	72.8	44.0
11:00 AM - 12:00 PM	46.1	64.3	41.2
12:00 PM - 01:00 PM	47.7	71.3	41.0
01:00 PM - 02:00 PM	46.5	69.3	39.8
Leq Average 24 hrs. (dB(A))	49.9		
Lmax (dB(A))		88.9	
L90 (dB(A))			44.0
Ldn (dB(A))	57.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395847-1

Sample Number	2576285-8
Parameter	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date	Aug 19 - Aug 20, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	46.3	70.0	39.9
03:00 PM - 04:00 PM	45.8	75.1	39.9
04:00 PM - 05:00 PM	47.0	67.7	41.1
05:00 PM - 06:00 PM	46.8	70.5	40.4
06:00 PM - 07:00 PM	45.8	63.7	41.2
07:00 PM - 08:00 PM	51.1	58.9	42.9
08:00 PM - 09:00 PM	52.9	56.5	50.9
09:00 PM - 10:00 PM	52.7	71.1	50.9
10:00 PM - 11:00 PM	52.6	69.1	51.4
11:00 PM - 12:00 AM	51.5	57.6	50.2
12:00 AM - 01:00 AM	50.8	53.8	49.9
01:00 AM - 02:00 AM	49.7	66.2	48.5
02:00 AM - 03:00 AM	50.4	58.9	49.4
03:00 AM - 04:00 AM	49.7	56.4	48.3
04:00 AM - 05:00 AM	49.5	57.4	47.5
05:00 AM - 06:00 AM	49.8	71.5	47.3
06:00 AM - 07:00 AM	49.9	71.9	44.1
07:00 AM - 08:00 AM	51.3	78.0	41.6
08:00 AM - 09:00 AM	47.5	70.0	40.4
09:00 AM - 10:00 AM	51.2	71.0	44.4
10:00 AM - 11:00 AM	50.7	66.8	41.1
11:00 AM - 12:00 PM	44.2	64.4	38.5
12:00 PM - 01:00 PM	42.5	61.3	37.5
01:00 PM - 02:00 PM	44.1	69.4	38.2
Leq Average 24 hrs. (dB(A))	49.7		
Lmax (dB(A))		78.0	
L90 (dB(A))			42.9
Ldn (dB(A))	56.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395849-1

Sample Number	2576285-10
Parameter	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date	Aug 21 - Aug 22, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	43.8	67.2	38.5
03:00 PM - 04:00 PM	44.8	68.9	38.9
04:00 PM - 05:00 PM	45.6	64.2	40.7
05:00 PM - 06:00 PM	50.9	82.9	40.1
06:00 PM - 07:00 PM	46.0	63.6	41.0
07:00 PM - 08:00 PM	47.1	74.5	40.5
08:00 PM - 09:00 PM	43.7	68.9	39.0
09:00 PM - 10:00 PM	51.5	75.9	42.5
10:00 PM - 11:00 PM	55.2	81.4	45.7
11:00 PM - 12:00 AM	50.1	64.3	47.8
12:00 AM - 01:00 AM	49.6	66.9	45.9
01:00 AM - 02:00 AM	48.2	69.6	45.8
02:00 AM - 03:00 AM	49.2	64.8	47.2
03:00 AM - 04:00 AM	49.4	60.3	47.3
04:00 AM - 05:00 AM	50.9	53.4	50.2
05:00 AM - 06:00 AM	50.9	57.6	49.0
06:00 AM - 07:00 AM	49.4	60.2	48.1
07:00 AM - 08:00 AM	55.4	78.5	49.3
08:00 AM - 09:00 AM	53.6	74.6	45.4
09:00 AM - 10:00 AM	48.9	71.1	44.5
10:00 AM - 11:00 AM	50.5	72.1	43.3
11:00 AM - 12:00 PM	49.0	70.7	41.6
12:00 PM - 01:00 PM	49.5	83.1	40.1
01:00 PM - 02:00 PM	48.2	65.9	40.2
Leq Average 24 hrs. (dB(A))	50.3		
Lmax (dB(A))		83.1	
L90 (dB(A))			43.3
Ldn (dB(A))	57.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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Approved by

Section Head

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395855-1

Sample Number	2576285-16
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Aug 20 - Aug 21, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	49.5	82.5	42.1
05:00 PM - 06:00 PM	48.5	70.7	41.8
06:00 PM - 07:00 PM	49.5	75.0	40.7
07:00 PM - 08:00 PM	50.7	71.6	45.8
08:00 PM - 09:00 PM	50.4	70.4	46.9
09:00 PM - 10:00 PM	46.8	66.5	45.3
10:00 PM - 11:00 PM	49.3	70.0	44.0
11:00 PM - 12:00 AM	53.0	82.6	44.2
12:00 AM - 01:00 AM	47.5	69.8	44.3
01:00 AM - 02:00 AM	51.0	78.5	42.2
02:00 AM - 03:00 AM	50.6	77.0	41.4
03:00 AM - 04:00 AM	51.2	72.1	42.0
04:00 AM - 05:00 AM	54.2	70.8	45.0
05:00 AM - 06:00 AM	52.2	78.4	43.3
06:00 AM - 07:00 AM	49.0	71.3	42.4
07:00 AM - 08:00 AM	48.8	66.8	41.6
08:00 AM - 09:00 AM	50.6	70.9	41.7
09:00 AM - 10:00 AM	47.6	71.2	39.7
10:00 AM - 11:00 AM	49.6	71.2	43.1
11:00 AM - 12:00 PM	44.3	65.4	37.9
12:00 PM - 01:00 PM	42.7	62.8	37.6
01:00 PM - 02:00 PM	44.3	67.7	38.6
02:00 PM - 03:00 PM	44.2	68.3	36.8
03:00 PM - 04:00 PM	46.4	66.3	40.4
Leq Average 24 hrs. (dB(A))	49.7		
Lmax (dB(A))		82.6	
L90 (dB(A))			42.0
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) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395854-1

Sample Number	2576285-15
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Aug 19 - Aug 20, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	49.2	83.4	40.8
05:00 PM - 06:00 PM	47.4	73.1	41.6
06:00 PM - 07:00 PM	46.3	64.1	41.0
07:00 PM - 08:00 PM	52.8	70.4	48.9
08:00 PM - 09:00 PM	50.9	67.1	48.7
09:00 PM - 10:00 PM	51.2	68.8	48.4
10:00 PM - 11:00 PM	51.8	67.6	48.1
11:00 PM - 12:00 AM	49.0	64.9	46.6
12:00 AM - 01:00 AM	50.1	65.5	45.0
01:00 AM - 02:00 AM	46.8	69.6	43.9
02:00 AM - 03:00 AM	45.7	63.9	44.2
03:00 AM - 04:00 AM	48.5	60.1	44.4
04:00 AM - 05:00 AM	52.5	62.1	48.4
05:00 AM - 06:00 AM	54.1	77.7	45.1
06:00 AM - 07:00 AM	48.2	68.7	42.2
07:00 AM - 08:00 AM	48.6	71.7	41.2
08:00 AM - 09:00 AM	50.8	70.7	42.3
09:00 AM - 10:00 AM	47.6	73.0	40.9
10:00 AM - 11:00 AM	48.4	72.0	40.0
11:00 AM - 12:00 PM	45.1	73.5	38.2
12:00 PM - 01:00 PM	41.8	62.0	37.7
01:00 PM - 02:00 PM	43.3	63.4	37.7
02:00 PM - 03:00 PM	44.8	69.5	38.6
03:00 PM - 04:00 PM	46.2	71.3	40.8
Leq Average 24 hrs. (dB(A))	49.4		
Lmax (dB(A))		83.4	
L90 (dB(A))			42.2
Ldn (dB(A))	56.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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2244-23/ EMAIL S:\Reports_Air Noise.rpt (3:50PM)

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395856-1

Sample Number	2576285-17
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Aug 21 - Aug 22, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	47.8	75.7	41.0
05:00 PM - 06:00 PM	47.1	71.1	40.4
06:00 PM - 07:00 PM	46.9	70.6	40.2
07:00 PM - 08:00 PM	47.3	68.8	44.3
08:00 PM - 09:00 PM	48.8	72.6	44.9
09:00 PM - 10:00 PM	48.2	75.7	44.0
10:00 PM - 11:00 PM	47.6	77.3	43.3
11:00 PM - 12:00 AM	46.9	70.9	43.7
12:00 AM - 01:00 AM	49.3	72.9	43.6
01:00 AM - 02:00 AM	46.0	67.7	43.8
02:00 AM - 03:00 AM	44.7	63.2	43.1
03:00 AM - 04:00 AM	51.6	75.2	42.8
04:00 AM - 05:00 AM	55.5	70.1	43.5
05:00 AM - 06:00 AM	52.4	77.6	43.1
06:00 AM - 07:00 AM	48.6	73.9	43.2
07:00 AM - 08:00 AM	48.7	73.8	42.1
08:00 AM - 09:00 AM	50.1	66.8	42.7
09:00 AM - 10:00 AM	49.9	76.0	45.6
10:00 AM - 11:00 AM	45.0	65.6	39.4
11:00 AM - 12:00 PM	44.2	67.9	39.4
12:00 PM - 01:00 PM	44.2	68.2	39.5
01:00 PM - 02:00 PM	43.8	65.6	39.4
02:00 PM - 03:00 PM	45.2	65.6	40.4
03:00 PM - 04:00 PM	55.3	68.9	41.1
Leq Average 24 hrs. (dB(A))	49.5		
Lmax (dB(A))		77.6	
L90 (dB(A))			42.8
Ldn (dB(A))	56.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
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Approved by
Section Head

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395914-1

Sample Number	2576287-2
Parameter	Noise (Leq 24 hrs.)
Location	Ban Nong Sang (GPS 47Q 0678387, 1805733)
Measurement Date	Aug 23 - Aug 24, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 873053

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	45.9	71.6	39.5
02:00 PM - 03:00 PM	53.0	76.8	39.7
03:00 PM - 04:00 PM	50.5	77.3	39.7
04:00 PM - 05:00 PM	47.8	68.4	40.9
05:00 PM - 06:00 PM	49.9	74.5	40.8
06:00 PM - 07:00 PM	58.5	78.2	42.3
07:00 PM - 08:00 PM	57.7	75.6	50.4
08:00 PM - 09:00 PM	56.6	70.1	48.7
09:00 PM - 10:00 PM	57.3	66.1	50.7
10:00 PM - 11:00 PM	57.5	66.5	48.7
11:00 PM - 12:00 AM	51.0	71.4	48.0
12:00 AM - 01:00 AM	50.7	66.3	47.6
01:00 AM - 02:00 AM	48.9	65.6	46.9
02:00 AM - 03:00 AM	50.4	64.9	46.8
03:00 AM - 04:00 AM	53.4	78.3	47.2
04:00 AM - 05:00 AM	62.6	73.9	47.9
05:00 AM - 06:00 AM	63.0	73.6	47.5
06:00 AM - 07:00 AM	54.8	80.1	44.8
07:00 AM - 08:00 AM	53.8	80.3	43.5
08:00 AM - 09:00 AM	53.1	75.3	42.1
09:00 AM - 10:00 AM	55.8	79.8	41.7
10:00 AM - 11:00 AM	59.7	87.1	41.9
11:00 AM - 12:00 PM	52.9	78.7	40.2
12:00 PM - 01:00 PM	47.2	72.0	40.4
Leq Average 24 hrs. (dB(A))	56.3		
Lmax (dB(A))		87.1	
L90 (dB(A))			43.5
Ldn (dB(A))	63.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395913-1

Sample Number	2576287-1
Parameter	Noise (Leq 24 hrs.)
Location	Ban Nong Sang (GPS 47Q 0678387, 1805733)
Measurement Date	Aug 22 - Aug 23, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 873053

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	49.8	75.2	39.4
02:00 PM - 03:00 PM	52.4	82.0	39.5
03:00 PM - 04:00 PM	49.3	75.4	40.3
04:00 PM - 05:00 PM	50.9	75.6	40.4
05:00 PM - 06:00 PM	52.8	78.0	40.5
06:00 PM - 07:00 PM	48.5	75.4	40.0
07:00 PM - 08:00 PM	49.5	68.6	43.3
08:00 PM - 09:00 PM	51.0	64.9	46.3
09:00 PM - 10:00 PM	58.5	68.6	47.6
10:00 PM - 11:00 PM	55.2	69.3	51.7
11:00 PM - 12:00 AM	53.2	65.9	50.2
12:00 AM - 01:00 AM	54.8	66.1	53.2
01:00 AM - 02:00 AM	50.5	74.3	47.8
02:00 AM - 03:00 AM	48.2	67.0	46.7
03:00 AM - 04:00 AM	52.5	71.5	47.8
04:00 AM - 05:00 AM	56.0	72.7	51.9
05:00 AM - 06:00 AM	58.4	77.1	52.9
06:00 AM - 07:00 AM	54.8	74.9	48.0
07:00 AM - 08:00 AM	53.9	78.8	43.1
08:00 AM - 09:00 AM	54.3	80.5	41.8
09:00 AM - 10:00 AM	50.0	72.6	41.2
10:00 AM - 11:00 AM	53.4	77.5	40.4
11:00 AM - 12:00 PM	49.4	74.7	39.8
12:00 PM - 01:00 PM	50.1	72.6	39.7
Leq Average 24 hrs. (dB(A))	53.4		
Lmax (dB(A))		82.0	
L90 (dB(A))			43.1
Ldn (dB(A))	60.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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2244-23/ EMAIL S:\Reports_Air Noise.rpt (4:03PM)

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395915-1

Sample Number	2576287-3
Parameter	Noise (Leq 24 hrs.)
Location	Ban Nong Sang (GPS 47Q 0678387, 1805733)
Measurement Date	Aug 24 - Aug 25, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 873053

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	48.0	70.1	41.3
02:00 PM - 03:00 PM	52.7	74.0	40.5
03:00 PM - 04:00 PM	49.3	78.0	40.9
04:00 PM - 05:00 PM	59.4	95.5	41.3
05:00 PM - 06:00 PM	50.3	72.2	41.6
06:00 PM - 07:00 PM	47.2	69.0	41.4
07:00 PM - 08:00 PM	48.6	65.0	44.7
08:00 PM - 09:00 PM	50.0	65.9	48.7
09:00 PM - 10:00 PM	49.5	60.7	48.4
10:00 PM - 11:00 PM	52.3	71.3	47.4
11:00 PM - 12:00 AM	55.2	72.8	47.9
12:00 AM - 01:00 AM	66.4	93.3	49.9
01:00 AM - 02:00 AM	59.5	69.8	56.4
02:00 AM - 03:00 AM	55.6	68.7	50.2
03:00 AM - 04:00 AM	53.5	70.1	47.5
04:00 AM - 05:00 AM	57.1	63.1	56.3
05:00 AM - 06:00 AM	60.3	75.2	56.3
06:00 AM - 07:00 AM	61.3	79.1	56.5
07:00 AM - 08:00 AM	53.6	74.8	44.5
08:00 AM - 09:00 AM	51.3	74.0	42.3
09:00 AM - 10:00 AM	52.1	74.3	41.4
10:00 AM - 11:00 AM	49.6	71.4	40.8
11:00 AM - 12:00 PM	53.0	78.9	34.7
12:00 PM - 01:00 PM	64.4	76.4	50.3
Leq Average 24 hrs. (dB(A))	57.8		
Lmax (dB(A))		95.5	
L90 (dB(A))			44.7
Ldn (dB(A))	66.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395917-1

Sample Number	2576287-5
Parameter	Noise (Leq 24 hrs.)
Location	Ban Khao Kham (GPS 47Q 0675850, 1806485)
Measurement Date	Aug 23 - Aug 24, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858523

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	43.9	70.8	30.9
03:00 PM - 04:00 PM	39.9	64.4	32.2
04:00 PM - 05:00 PM	43.2	77.1	33.3
05:00 PM - 06:00 PM	47.0	66.7	37.9
06:00 PM - 07:00 PM	52.4	74.2	43.9
07:00 PM - 08:00 PM	48.9	62.3	44.8
08:00 PM - 09:00 PM	61.2	82.0	56.6
09:00 PM - 10:00 PM	60.7	64.2	59.9
10:00 PM - 11:00 PM	61.6	84.5	60.7
11:00 PM - 12:00 AM	62.4	64.9	61.1
12:00 AM - 01:00 AM	61.2	66.2	59.6
01:00 AM - 02:00 AM	59.9	66.0	57.5
02:00 AM - 03:00 AM	56.2	63.8	50.7
03:00 AM - 04:00 AM	45.8	57.6	43.8
04:00 AM - 05:00 AM	44.0	67.6	42.0
05:00 AM - 06:00 AM	46.0	70.2	39.3
06:00 AM - 07:00 AM	46.5	68.0	36.9
07:00 AM - 08:00 AM	58.4	88.6	34.1
08:00 AM - 09:00 AM	43.5	65.7	33.6
09:00 AM - 10:00 AM	40.9	64.9	32.6
10:00 AM - 11:00 AM	42.0	67.5	33.3
11:00 AM - 12:00 PM	39.8	62.7	33.2
12:00 PM - 01:00 PM	37.6	59.1	32.3
01:00 PM - 02:00 PM	38.7	63.2	32.0
Leq Average 24 hrs. (dB(A))	56.0		
Lmax (dB(A))		88.6	
L90 (dB(A))			37.9
Ldn (dB(A))	64.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395916-1

Sample Number	2576287-4
Parameter	Noise (Leq 24 hrs.)
Location	Ban Khao Kham (GPS 47Q 0675850, 1806485)
Measurement Date	Aug 22 - Aug 23, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858523

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	41.2	68.0	33.4
03:00 PM - 04:00 PM	47.2	78.0	34.8
04:00 PM - 05:00 PM	53.1	70.7	38.2
05:00 PM - 06:00 PM	44.7	66.3	38.7
06:00 PM - 07:00 PM	59.0	69.0	43.6
07:00 PM - 08:00 PM	59.4	74.8	43.2
08:00 PM - 09:00 PM	60.3	65.3	50.0
09:00 PM - 10:00 PM	60.7	64.2	57.3
10:00 PM - 11:00 PM	57.7	61.8	54.1
11:00 PM - 12:00 AM	58.8	64.5	54.9
12:00 AM - 01:00 AM	60.0	66.3	55.3
01:00 AM - 02:00 AM	63.9	68.0	62.3
02:00 AM - 03:00 AM	63.5	70.6	60.0
03:00 AM - 04:00 AM	59.0	81.5	49.4
04:00 AM - 05:00 AM	58.3	68.3	47.6
05:00 AM - 06:00 AM	56.7	68.3	45.7
06:00 AM - 07:00 AM	51.2	68.9	40.0
07:00 AM - 08:00 AM	44.6	67.1	35.9
08:00 AM - 09:00 AM	43.5	77.1	34.7
09:00 AM - 10:00 AM	51.5	86.3	33.5
10:00 AM - 11:00 AM	41.5	70.7	32.8
11:00 AM - 12:00 PM	41.1	67.4	31.1
12:00 PM - 01:00 PM	41.8	74.5	30.9
01:00 PM - 02:00 PM	50.5	78.2	30.5
Leq Average 24 hrs. (dB(A))	57.6		
Lmax (dB(A))		86.3	
L90 (dB(A))			40.0
Ldn (dB(A))	66.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395918-1

Sample Number	2576287-6
Parameter	Noise (Leq 24 hrs.)
Location	Ban Khao Kham (GPS 47Q 0675850, 1806485)
Measurement Date	Aug 24 - Aug 25, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858523

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	39.7	63.1	31.5
03:00 PM - 04:00 PM	42.1	69.8	33.6
04:00 PM - 05:00 PM	43.6	69.5	36.8
05:00 PM - 06:00 PM	47.6	63.3	39.1
06:00 PM - 07:00 PM	49.8	64.6	44.1
07:00 PM - 08:00 PM	53.2	59.7	49.6
08:00 PM - 09:00 PM	53.5	58.5	51.6
09:00 PM - 10:00 PM	53.6	69.1	51.2
10:00 PM - 11:00 PM	54.0	57.7	51.9
11:00 PM - 12:00 AM	65.9	80.1	51.7
12:00 AM - 01:00 AM	54.3	80.3	51.8
01:00 AM - 02:00 AM	59.9	64.9	55.8
02:00 AM - 03:00 AM	62.3	65.4	61.5
03:00 AM - 04:00 AM	60.6	63.7	59.2
04:00 AM - 05:00 AM	54.8	67.8	43.4
05:00 AM - 06:00 AM	46.5	66.0	41.1
06:00 AM - 07:00 AM	48.4	71.7	39.9
07:00 AM - 08:00 AM	49.2	75.3	37.5
08:00 AM - 09:00 AM	45.3	70.5	36.3
09:00 AM - 10:00 AM	43.8	66.4	35.0
10:00 AM - 11:00 AM	48.6	56.6	44.9
11:00 AM - 12:00 PM	48.2	63.5	45.2
12:00 PM - 01:00 PM	52.3	65.7	45.2
01:00 PM - 02:00 PM	49.1	58.6	45.2
Leq Average 24 hrs. (dB(A))	56.2		
Lmax (dB(A))		80.3	
L90 (dB(A))			44.9
Ldn (dB(A))	65.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395920-1

Sample Number	2576287-8
Parameter	Noise (Leq 24 hrs.)
Location	Ban Tung Thong (GPS 47Q 0674687, 1805768)
Measurement Date	Aug 23 - Aug 24, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	51.3	67.8	43.2
06:00 PM - 07:00 PM	51.7	68.5	42.8
07:00 PM - 08:00 PM	49.7	75.3	41.8
08:00 PM - 09:00 PM	48.6	68.9	41.4
09:00 PM - 10:00 PM	48.0	74.6	43.0
10:00 PM - 11:00 PM	47.3	69.8	44.5
11:00 PM - 12:00 AM	47.7	60.5	45.2
12:00 AM - 01:00 AM	47.9	60.3	46.0
01:00 AM - 02:00 AM	49.5	57.3	47.3
02:00 AM - 03:00 AM	58.6	64.7	52.7
03:00 AM - 04:00 AM	61.7	65.8	59.9
04:00 AM - 05:00 AM	63.7	66.9	62.3
05:00 AM - 06:00 AM	63.0	66.0	61.7
06:00 AM - 07:00 AM	61.8	72.9	60.0
07:00 AM - 08:00 AM	58.9	65.3	54.5
08:00 AM - 09:00 AM	49.6	71.0	44.4
09:00 AM - 10:00 AM	51.3	69.8	42.6
10:00 AM - 11:00 AM	49.6	69.0	41.1
11:00 AM - 12:00 PM	50.1	73.6	40.7
12:00 PM - 01:00 PM	50.5	67.7	41.2
01:00 PM - 02:00 PM	44.8	72.2	38.5
02:00 PM - 03:00 PM	47.1	70.6	39.0
03:00 PM - 04:00 PM	46.0	63.2	39.0
04:00 PM - 05:00 PM	49.3	67.9	39.8
Leq Average 24 hrs. (dB(A))	56.3		
Lmax (dB(A))		75.3	
L90 (dB(A))			43.0
Ldn (dB(A))	65.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395919-1

Sample Number	2576287-7
Parameter	Noise (Leq 24 hrs.)
Location	Ban Tung Thong (GPS 47Q 0674687, 1805768)
Measurement Date	Aug 22 - Aug 23, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	50.7	74.6	40.9
06:00 PM - 07:00 PM	50.0	69.0	40.8
07:00 PM - 08:00 PM	50.8	69.1	43.0
08:00 PM - 09:00 PM	50.1	69.6	42.7
09:00 PM - 10:00 PM	46.5	62.8	43.8
10:00 PM - 11:00 PM	46.3	58.2	44.4
11:00 PM - 12:00 AM	45.5	56.5	44.3
12:00 AM - 01:00 AM	47.8	60.0	45.1
01:00 AM - 02:00 AM	48.3	64.1	46.2
02:00 AM - 03:00 AM	47.4	55.8	46.4
03:00 AM - 04:00 AM	48.3	55.0	47.1
04:00 AM - 05:00 AM	46.2	54.7	45.2
05:00 AM - 06:00 AM	46.8	52.9	45.7
06:00 AM - 07:00 AM	47.1	64.1	45.9
07:00 AM - 08:00 AM	47.2	53.5	46.0
08:00 AM - 09:00 AM	48.3	63.3	45.3
09:00 AM - 10:00 AM	51.6	66.7	44.6
10:00 AM - 11:00 AM	52.4	69.0	44.0
11:00 AM - 12:00 PM	51.8	72.0	42.6
12:00 PM - 01:00 PM	51.5	69.0	41.3
01:00 PM - 02:00 PM	49.3	67.7	37.3
02:00 PM - 03:00 PM	49.3	66.3	41.0
03:00 PM - 04:00 PM	49.5	68.5	40.8
04:00 PM - 05:00 PM	52.1	71.7	41.7
Leq Average 24 hrs. (dB(A))	49.4		
Lmax (dB(A))		74.6	
L90 (dB(A))			44.0
Ldn (dB(A))	54.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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2244-23/ EMAIL S:\Reports_Air Noise.rpt (4:05PM)

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395921-1

Sample Number	2576287-9
Parameter	Noise (Leq 24 hrs.)
Location	Ban Tung Thong (GPS 47Q 0674687, 1805768)
Measurement Date	Aug 24 - Aug 25, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	47.9	67.5	39.4
06:00 PM - 07:00 PM	48.6	68.1	40.0
07:00 PM - 08:00 PM	48.2	68.9	40.6
08:00 PM - 09:00 PM	48.5	69.6	42.0
09:00 PM - 10:00 PM	54.6	71.4	50.6
10:00 PM - 11:00 PM	51.4	65.5	49.4
11:00 PM - 12:00 AM	50.6	63.4	48.8
12:00 AM - 01:00 AM	49.9	59.6	47.7
01:00 AM - 02:00 AM	48.4	60.0	46.4
02:00 AM - 03:00 AM	60.5	76.2	46.7
03:00 AM - 04:00 AM	63.1	72.4	56.1
04:00 AM - 05:00 AM	59.4	63.4	57.4
05:00 AM - 06:00 AM	60.0	64.3	58.2
06:00 AM - 07:00 AM	59.7	63.5	57.1
07:00 AM - 08:00 AM	57.3	64.0	54.0
08:00 AM - 09:00 AM	52.2	74.2	48.2
09:00 AM - 10:00 AM	52.1	69.2	45.7
10:00 AM - 11:00 AM	52.0	72.5	44.2
11:00 AM - 12:00 PM	51.2	69.4	41.8
12:00 PM - 01:00 PM	49.8	69.3	40.5
01:00 PM - 02:00 PM	48.6	64.2	39.5
02:00 PM - 03:00 PM	47.6	62.5	39.4
03:00 PM - 04:00 PM	50.3	79.4	40.2
04:00 PM - 05:00 PM	49.5	61.9	43.9
Leq Average 24 hrs. (dB(A))	55.5		
Lmax (dB(A))		79.4	
L90 (dB(A))			45.7
Ldn (dB(A))	64.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Technical Management

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Approved by

Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395923-1

Sample Number	2576287-11
Parameter	Noise (Leq 24 hrs.)
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Measurement Date	Aug 23 - Aug 24, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	45.3	65.5	41.5
05:00 PM - 06:00 PM	49.1	75.0	42.8
06:00 PM - 07:00 PM	49.5	70.6	43.7
07:00 PM - 08:00 PM	56.2	88.0	43.8
08:00 PM - 09:00 PM	55.3	89.3	43.8
09:00 PM - 10:00 PM	62.2	81.9	51.8
10:00 PM - 11:00 PM	53.1	67.8	50.7
11:00 PM - 12:00 AM	53.7	64.9	51.2
12:00 AM - 01:00 AM	56.2	61.4	54.2
01:00 AM - 02:00 AM	58.7	69.6	56.9
02:00 AM - 03:00 AM	56.4	59.9	54.7
03:00 AM - 04:00 AM	57.2	64.5	54.2
04:00 AM - 05:00 AM	57.3	63.0	52.8
05:00 AM - 06:00 AM	56.8	63.2	51.4
06:00 AM - 07:00 AM	59.4	66.8	54.6
07:00 AM - 08:00 AM	58.8	68.2	53.1
08:00 AM - 09:00 AM	58.3	84.2	46.5
09:00 AM - 10:00 AM	53.4	78.9	46.8
10:00 AM - 11:00 AM	51.6	86.8	46.2
11:00 AM - 12:00 PM	52.2	81.0	44.1
12:00 PM - 01:00 PM	56.6	94.9	43.6
01:00 PM - 02:00 PM	49.5	73.3	43.7
02:00 PM - 03:00 PM	50.1	77.4	44.1
03:00 PM - 04:00 PM	53.0	79.1	45.3
Leq Average 24 hrs. (dB(A))	56.1		
Lmax (dB(A))		94.9	
L90 (dB(A))			46.5
Ldn (dB(A))	63.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395922-1

Sample Number	2576287-10
Parameter	Noise (Leq 24 hrs.)
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Measurement Date	Aug 22 - Aug 23, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	51.8	82.6	41.6
05:00 PM - 06:00 PM	50.9	80.8	42.2
06:00 PM - 07:00 PM	54.1	81.3	41.5
07:00 PM - 08:00 PM	54.8	86.2	44.2
08:00 PM - 09:00 PM	54.5	89.5	42.5
09:00 PM - 10:00 PM	52.5	65.7	48.1
10:00 PM - 11:00 PM	51.8	66.6	48.3
11:00 PM - 12:00 AM	51.1	66.0	48.2
12:00 AM - 01:00 AM	52.4	61.7	50.2
01:00 AM - 02:00 AM	52.3	75.3	50.4
02:00 AM - 03:00 AM	51.3	78.0	49.6
03:00 AM - 04:00 AM	53.1	66.7	51.2
04:00 AM - 05:00 AM	55.5	59.1	54.1
05:00 AM - 06:00 AM	54.9	61.6	52.8
06:00 AM - 07:00 AM	55.1	69.6	52.4
07:00 AM - 08:00 AM	61.3	69.2	55.2
08:00 AM - 09:00 AM	56.2	83.7	43.8
09:00 AM - 10:00 AM	51.9	74.2	43.5
10:00 AM - 11:00 AM	50.9	77.2	45.8
11:00 AM - 12:00 PM	51.0	77.6	46.1
12:00 PM - 01:00 PM	48.0	71.4	43.8
01:00 PM - 02:00 PM	59.1	89.2	45.3
02:00 PM - 03:00 PM	53.1	81.4	42.9
03:00 PM - 04:00 PM	47.5	71.1	41.8
Leq Average 24 hrs. (dB(A))	54.4		
Lmax (dB(A))		89.5	
L90 (dB(A))			45.8
Ldn (dB(A))	60.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Technical Management _____ **Approved by** _____

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 2576287
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395924-1

Sample Number	2576287-12
Parameter	Noise (Leq 24 hrs.)
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Measurement Date	Aug 24 - Aug 25, 2025
Measurement by	Jatsarawut Pattama
Sound Level meter	Serial No. 858517

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	50.9	75.1	45.3
05:00 PM - 06:00 PM	50.4	73.6	46.2
06:00 PM - 07:00 PM	52.8	76.1	45.6
07:00 PM - 08:00 PM	50.3	75.6	46.5
08:00 PM - 09:00 PM	56.6	89.0	46.4
09:00 PM - 10:00 PM	53.4	65.1	49.2
10:00 PM - 11:00 PM	57.1	75.4	53.3
11:00 PM - 12:00 AM	60.1	82.9	55.8
12:00 AM - 01:00 AM	59.7	70.3	54.9
01:00 AM - 02:00 AM	59.2	73.3	54.6
02:00 AM - 03:00 AM	65.3	83.7	50.4
03:00 AM - 04:00 AM	53.8	70.0	51.7
04:00 AM - 05:00 AM	59.5	64.8	54.3
05:00 AM - 06:00 AM	61.4	66.1	56.1
06:00 AM - 07:00 AM	62.2	67.1	56.2
07:00 AM - 08:00 AM	60.8	67.5	52.5
08:00 AM - 09:00 AM	56.9	87.0	44.3
09:00 AM - 10:00 AM	55.8	83.9	49.2
10:00 AM - 11:00 AM	53.5	78.8	48.1
11:00 AM - 12:00 PM	55.5	83.0	46.4
12:00 PM - 01:00 PM	48.4	67.4	44.8
01:00 PM - 02:00 PM	50.2	73.2	44.6
02:00 PM - 03:00 PM	49.3	82.9	38.9
03:00 PM - 04:00 PM	48.6	55.2	45.9
Leq Average 24 hrs. (dB(A))	58.0		
Lmax (dB(A))		89.0	
L90 (dB(A))			48.1
Ldn (dB(A))	66.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457183-1

Sample Number	25102361-2
Parameter	Air Quality
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)
Measurement Date	Nov 11 - Nov 12, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	52.3	78.2	43.3
03:00 PM - 04:00 PM	47.5	73.6	40.5
04:00 PM - 05:00 PM	48.6	82.8	39.4
05:00 PM - 06:00 PM	50.9	76.3	41.8
06:00 PM - 07:00 PM	56.0	72.5	47.7
07:00 PM - 08:00 PM	58.9	65.4	52.3
08:00 PM - 09:00 PM	59.3	84.3	56.0
09:00 PM - 10:00 PM	58.3	66.5	54.7
10:00 PM - 11:00 PM	57.7	78.7	54.8
11:00 PM - 12:00 AM	56.8	67.4	51.9
12:00 AM - 01:00 AM	53.1	67.0	50.4
01:00 AM - 02:00 AM	51.2	76.6	44.6
02:00 AM - 03:00 AM	52.1	58.4	44.9
03:00 AM - 04:00 AM	55.5	59.2	51.2
04:00 AM - 05:00 AM	55.9	62.9	53.0
05:00 AM - 06:00 AM	57.5	78.6	50.3
06:00 AM - 07:00 AM	51.5	77.5	44.5
07:00 AM - 08:00 AM	52.6	81.0	40.9
08:00 AM - 09:00 AM	47.9	74.3	39.1
09:00 AM - 10:00 AM	45.5	64.7	39.8
10:00 AM - 11:00 AM	48.2	64.0	40.8
11:00 AM - 12:00 PM	45.7	72.6	41.2
12:00 PM - 01:00 PM	43.6	62.9	40.3
01:00 PM - 02:00 PM	48.6	83.7	40.8
Leq Average 24 hrs. (dB(A))	54.4		
Lmax (dB(A))		84.3	
L90 (dB(A))			44.5
Ldn (dB(A))	61.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457182-1

Sample Number	25102361-1
Parameter	Air Quality
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)
Measurement Date	Nov 10 - Nov 11, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	50.6	82.0	40.7
03:00 PM - 04:00 PM	47.0	68.8	40.3
04:00 PM - 05:00 PM	48.6	70.5	39.8
05:00 PM - 06:00 PM	53.5	77.2	41.4
06:00 PM - 07:00 PM	47.8	67.3	44.4
07:00 PM - 08:00 PM	50.1	76.4	47.1
08:00 PM - 09:00 PM	55.4	73.4	53.3
09:00 PM - 10:00 PM	57.2	87.9	54.7
10:00 PM - 11:00 PM	56.4	71.0	54.0
11:00 PM - 12:00 AM	56.2	63.0	53.8
12:00 AM - 01:00 AM	61.2	86.6	50.6
01:00 AM - 02:00 AM	54.3	78.5	44.1
02:00 AM - 03:00 AM	60.1	84.9	45.0
03:00 AM - 04:00 AM	53.0	67.3	45.7
04:00 AM - 05:00 AM	55.4	72.7	47.4
05:00 AM - 06:00 AM	59.1	78.6	52.0
06:00 AM - 07:00 AM	54.8	82.4	49.0
07:00 AM - 08:00 AM	50.3	69.4	43.5
08:00 AM - 09:00 AM	49.0	68.1	41.6
09:00 AM - 10:00 AM	48.1	74.3	40.9
10:00 AM - 11:00 AM	48.9	74.1	41.1
11:00 AM - 12:00 PM	47.2	65.9	41.0
12:00 PM - 01:00 PM	55.0	78.2	42.2
01:00 PM - 02:00 PM	57.3	79.8	47.0
Leq Average 24 hrs. (dB(A))	55.1		
Lmax (dB(A))		87.9	
L90 (dB(A))			44.4
Ldn (dB(A))	63.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457184-1

Sample Number	25102361-3
Parameter	Air Quality
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)
Measurement Date	Nov 12 - Nov 13, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	46.7	67.2	41.1
03:00 PM - 04:00 PM	47.3	72.6	41.0
04:00 PM - 05:00 PM	48.9	74.5	41.2
05:00 PM - 06:00 PM	51.0	77.0	43.1
06:00 PM - 07:00 PM	50.6	73.1	47.1
07:00 PM - 08:00 PM	48.8	70.2	47.2
08:00 PM - 09:00 PM	51.8	83.3	46.7
09:00 PM - 10:00 PM	51.9	67.9	49.3
10:00 PM - 11:00 PM	48.9	64.9	43.3
11:00 PM - 12:00 AM	44.8	57.5	43.0
12:00 AM - 01:00 AM	50.5	73.3	42.9
01:00 AM - 02:00 AM	47.3	52.7	44.0
02:00 AM - 03:00 AM	46.3	54.7	42.6
03:00 AM - 04:00 AM	48.0	58.9	44.0
04:00 AM - 05:00 AM	52.4	64.3	46.0
05:00 AM - 06:00 AM	54.8	75.6	49.1
06:00 AM - 07:00 AM	53.0	83.3	46.6
07:00 AM - 08:00 AM	53.8	89.2	41.9
08:00 AM - 09:00 AM	53.7	73.8	42.0
09:00 AM - 10:00 AM	46.1	70.6	40.8
10:00 AM - 11:00 AM	45.3	63.8	40.8
11:00 AM - 12:00 PM	50.5	66.4	41.2
12:00 PM - 01:00 PM	61.3	76.3	43.3
01:00 PM - 02:00 PM	47.4	65.6	41.3
Leq Average 24 hrs. (dB(A))	52.1		
Lmax (dB(A))		89.2	
L90 (dB(A))			43.0
Ldn (dB(A))	57.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Technical Management

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457186-1

Sample Number	25102361-5
Parameter	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Measurement Date	Nov 11 - Nov 12, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	51.0	74.9	41.8
04:00 PM - 05:00 PM	51.4	71.3	42.7
05:00 PM - 06:00 PM	53.0	71.6	45.6
06:00 PM - 07:00 PM	54.8	72.3	47.3
07:00 PM - 08:00 PM	56.3	68.9	51.4
08:00 PM - 09:00 PM	57.2	70.9	51.6
09:00 PM - 10:00 PM	54.4	72.6	49.2
10:00 PM - 11:00 PM	50.6	71.2	48.7
11:00 PM - 12:00 AM	49.0	62.1	47.1
12:00 AM - 01:00 AM	48.0	65.0	46.5
01:00 AM - 02:00 AM	49.2	59.5	48.0
02:00 AM - 03:00 AM	49.0	72.4	47.9
03:00 AM - 04:00 AM	48.4	71.9	46.5
04:00 AM - 05:00 AM	48.5	61.7	46.3
05:00 AM - 06:00 AM	50.3	69.6	46.3
06:00 AM - 07:00 AM	55.8	78.0	46.3
07:00 AM - 08:00 AM	57.8	82.0	48.0
08:00 AM - 09:00 AM	58.8	79.5	46.8
09:00 AM - 10:00 AM	55.5	71.0	46.0
10:00 AM - 11:00 AM	56.3	75.1	45.0
11:00 AM - 12:00 PM	53.7	71.2	44.4
12:00 PM - 01:00 PM	50.6	69.4	43.3
01:00 PM - 02:00 PM	55.7	80.4	43.5
02:00 PM - 03:00 PM	54.8	92.6	43.9
Leq Average 24 hrs. (dB(A))	54.1		
Lmax (dB(A))		92.6	
L90 (dB(A))			46.3
Ldn (dB(A))	58.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457185-1

Page 1 of 1

Sample Number	25102361-4
Parameter	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Measurement Date	Nov 10 - Nov 11, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	50.5	75.3	43.0
04:00 PM - 05:00 PM	51.7	72.6	44.8
05:00 PM - 06:00 PM	54.5	77.6	45.9
06:00 PM - 07:00 PM	54.1	77.7	46.5
07:00 PM - 08:00 PM	53.7	81.0	50.5
08:00 PM - 09:00 PM	51.9	69.7	50.1
09:00 PM - 10:00 PM	52.4	66.3	49.4
10:00 PM - 11:00 PM	49.7	66.5	47.6
11:00 PM - 12:00 AM	49.5	65.4	46.6
12:00 AM - 01:00 AM	48.4	61.6	47.2
01:00 AM - 02:00 AM	47.2	63.4	45.7
02:00 AM - 03:00 AM	46.1	59.3	45.1
03:00 AM - 04:00 AM	46.8	66.9	45.1
04:00 AM - 05:00 AM	47.0	66.6	45.2
05:00 AM - 06:00 AM	50.0	69.2	45.2
06:00 AM - 07:00 AM	54.6	73.8	45.5
07:00 AM - 08:00 AM	56.4	81.5	47.5
08:00 AM - 09:00 AM	53.0	75.5	44.7
09:00 AM - 10:00 AM	55.3	79.9	44.0
10:00 AM - 11:00 AM	52.4	71.4	42.0
11:00 AM - 12:00 PM	50.1	80.5	40.6
12:00 PM - 01:00 PM	49.9	71.3	41.2
01:00 PM - 02:00 PM	51.5	70.7	41.3
02:00 PM - 03:00 PM	53.5	77.1	41.6
Leq Average 24 hrs. (dB(A))	52.1		
Lmax (dB(A))		81.5	
L90 (dB(A))			45.2
Ldn (dB(A))	56.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457187-1

Sample Number	25102361-6
Parameter	Air Quality
Location	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Measurement Date	Nov 12 - Nov 13, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	55.4	91.7	44.6
04:00 PM - 05:00 PM	53.3	71.1	44.1
05:00 PM - 06:00 PM	53.2	70.1	45.4
06:00 PM - 07:00 PM	53.0	73.9	46.8
07:00 PM - 08:00 PM	53.6	71.7	50.9
08:00 PM - 09:00 PM	53.2	70.7	50.0
09:00 PM - 10:00 PM	51.8	80.2	49.4
10:00 PM - 11:00 PM	50.2	64.8	48.7
11:00 PM - 12:00 AM	49.3	66.3	47.5
12:00 AM - 01:00 AM	50.8	69.3	49.3
01:00 AM - 02:00 AM	50.1	60.5	48.9
02:00 AM - 03:00 AM	49.9	68.8	48.4
03:00 AM - 04:00 AM	48.6	60.1	47.2
04:00 AM - 05:00 AM	48.3	60.0	46.4
05:00 AM - 06:00 AM	50.1	68.5	46.9
06:00 AM - 07:00 AM	54.3	72.1	47.6
07:00 AM - 08:00 AM	55.4	71.5	49.0
08:00 AM - 09:00 AM	54.0	82.6	46.5
09:00 AM - 10:00 AM	52.3	74.0	45.2
10:00 AM - 11:00 AM	52.2	82.7	44.6
11:00 AM - 12:00 PM	50.4	76.1	42.7
12:00 PM - 01:00 PM	51.7	71.0	42.9
01:00 PM - 02:00 PM	61.9	77.9	43.8
02:00 PM - 03:00 PM	52.9	69.3	43.8
Leq Average 24 hrs. (dB(A))	53.6		
Lmax (dB(A))		91.7	
L90 (dB(A))			46.8
Ldn (dB(A))	57.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457204-1

Sample Number	25102361-23
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Nov 11 - Nov 12, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	57.2	83.1	48.1
03:00 PM - 04:00 PM	57.3	80.0	44.6
04:00 PM - 05:00 PM	55.3	75.9	42.4
05:00 PM - 06:00 PM	53.4	76.5	42.2
06:00 PM - 07:00 PM	54.8	87.9	44.8
07:00 PM - 08:00 PM	52.9	76.4	42.1
08:00 PM - 09:00 PM	59.0	90.0	45.3
09:00 PM - 10:00 PM	53.6	80.6	44.4
10:00 PM - 11:00 PM	52.4	75.3	41.2
11:00 PM - 12:00 AM	46.3	65.5	43.3
12:00 AM - 01:00 AM	46.3	67.8	44.0
01:00 AM - 02:00 AM	45.6	59.1	43.0
02:00 AM - 03:00 AM	45.4	64.5	41.9
03:00 AM - 04:00 AM	51.7	85.0	41.3
04:00 AM - 05:00 AM	47.9	70.8	41.4
05:00 AM - 06:00 AM	44.2	58.2	41.5
06:00 AM - 07:00 AM	45.5	68.0	40.4
07:00 AM - 08:00 AM	47.8	68.2	40.5
08:00 AM - 09:00 AM	52.9	76.4	42.1
09:00 AM - 10:00 AM	55.3	75.9	42.4
10:00 AM - 11:00 AM	59.8	87.4	46.7
11:00 AM - 12:00 PM	54.3	78.1	46.8
12:00 PM - 01:00 PM	56.1	84.8	45.1
01:00 PM - 02:00 PM	57.5	84.0	46.4
Leq Average 24 hrs. (dB(A))	54.3		
Lmax (dB(A))		90.0	
L90 (dB(A))			42.4
Ldn (dB(A))	57.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457203-1

Sample Number	25102361-22
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Nov 10 - Nov 11, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	60.7	84.0	45.2
03:00 PM - 04:00 PM	54.6	80.7	45.0
04:00 PM - 05:00 PM	53.7	75.1	42.4
05:00 PM - 06:00 PM	53.4	79.3	42.5
06:00 PM - 07:00 PM	51.5	73.5	42.4
07:00 PM - 08:00 PM	54.8	87.9	44.8
08:00 PM - 09:00 PM	52.4	71.9	44.1
09:00 PM - 10:00 PM	57.3	93.8	51.5
10:00 PM - 11:00 PM	59.2	93.5	52.3
11:00 PM - 12:00 AM	52.4	71.9	44.1
12:00 AM - 01:00 AM	55.9	93.0	46.6
01:00 AM - 02:00 AM	46.4	61.5	44.6
02:00 AM - 03:00 AM	46.2	62.7	43.9
03:00 AM - 04:00 AM	51.6	83.2	45.3
04:00 AM - 05:00 AM	48.7	70.3	42.8
05:00 AM - 06:00 AM	48.0	71.4	41.4
06:00 AM - 07:00 AM	45.4	66.5	41.1
07:00 AM - 08:00 AM	49.0	74.6	41.6
08:00 AM - 09:00 AM	52.4	71.9	44.1
09:00 AM - 10:00 AM	58.7	77.3	46.0
10:00 AM - 11:00 AM	56.6	80.9	46.4
11:00 AM - 12:00 PM	57.4	82.1	46.5
12:00 PM - 01:00 PM	55.7	82.2	45.2
01:00 PM - 02:00 PM	57.7	77.2	45.1
Leq Average 24 hrs. (dB(A))	55.1		
Lmax (dB(A))		93.8	
L90 (dB(A))			44.6
Ldn (dB(A))	60.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457205-1

Sample Number	25102361-24
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Nov 12 - Nov 13, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	55.3	82.2	44.9
03:00 PM - 04:00 PM	52.2	73.5	44.0
04:00 PM - 05:00 PM	51.5	78.9	41.2
05:00 PM - 06:00 PM	50.6	76.0	41.5
06:00 PM - 07:00 PM	51.4	75.1	42.1
07:00 PM - 08:00 PM	54.3	76.1	43.0
08:00 PM - 09:00 PM	53.3	85.7	42.5
09:00 PM - 10:00 PM	53.6	80.6	44.4
10:00 PM - 11:00 PM	50.3	76.3	42.0
11:00 PM - 12:00 AM	48.3	80.8	41.8
12:00 AM - 01:00 AM	44.9	65.9	41.6
01:00 AM - 02:00 AM	44.1	62.0	41.6
02:00 AM - 03:00 AM	44.9	62.5	41.0
03:00 AM - 04:00 AM	44.1	60.9	41.0
04:00 AM - 05:00 AM	49.4	77.3	40.6
05:00 AM - 06:00 AM	44.2	65.3	40.3
06:00 AM - 07:00 AM	43.9	58.3	40.3
07:00 AM - 08:00 AM	47.7	69.1	41.2
08:00 AM - 09:00 AM	52.4	75.3	41.2
09:00 AM - 10:00 AM	57.7	75.4	45.0
10:00 AM - 11:00 AM	55.9	83.0	47.6
11:00 AM - 12:00 PM	59.9	100.4	46.4
12:00 PM - 01:00 PM	54.7	75.2	47.2
01:00 PM - 02:00 PM	55.7	77.0	44.6
Leq Average 24 hrs. (dB(A))	53.1		
Lmax (dB(A))		100.4	
L90 (dB(A))			41.8
Ldn (dB(A))	55.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

Scientist (3)

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
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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457192-1

Sample Number 25102361-11
Parameter Air Quality
Location Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date Nov 11 - Nov 12, 2025
Measurement by Autit Aoonsim
Sound Level meter Serial No. 858519

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	46.2	74.2	37.9
05:00 PM - 06:00 PM	45.0	63.9	39.9
06:00 PM - 07:00 PM	52.9	68.8	44.4
07:00 PM - 08:00 PM	54.1	67.7	52.3
08:00 PM - 09:00 PM	53.1	62.9	52.1
09:00 PM - 10:00 PM	53.1	70.1	51.6
10:00 PM - 11:00 PM	52.0	63.1	51.0
11:00 PM - 12:00 AM	52.3	56.0	51.3
12:00 AM - 01:00 AM	52.1	57.0	50.9
01:00 AM - 02:00 AM	52.2	65.4	50.9
02:00 AM - 03:00 AM	50.5	54.9	49.9
03:00 AM - 04:00 AM	50.3	62.2	49.3
04:00 AM - 05:00 AM	49.7	56.5	48.9
05:00 AM - 06:00 AM	49.3	66.0	47.7
06:00 AM - 07:00 AM	48.0	68.3	44.2
07:00 AM - 08:00 AM	47.6	65.0	42.2
08:00 AM - 09:00 AM	46.0	68.3	39.5
09:00 AM - 10:00 AM	45.2	67.8	38.3
10:00 AM - 11:00 AM	42.8	64.1	37.8
11:00 AM - 12:00 PM	43.3	67.8	38.2
12:00 PM - 01:00 PM	43.5	65.7	36.0
01:00 PM - 02:00 PM	43.6	70.8	36.0
02:00 PM - 03:00 PM	42.7	63.4	36.9
03:00 PM - 04:00 PM	47.6	86.2	37.0
Leq Average 24 hrs. (dB(A))	49.9		
Lmax (dB(A))		86.2	
L90 (dB(A))			44.2
Ldn (dB(A))	57.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) 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
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457191-1

Sample Number 25102361-10
Parameter Air Quality
Location Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date Nov 10 - Nov 11, 2025
Measurement by Autit Aoonsim
Sound Level meter Serial No. 858519

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	48.1	72.1	38.9
05:00 PM - 06:00 PM	47.9	71.6	40.3
06:00 PM - 07:00 PM	52.0	62.9	41.4
07:00 PM - 08:00 PM	54.4	73.1	53.0
08:00 PM - 09:00 PM	53.1	63.9	52.2
09:00 PM - 10:00 PM	51.8	58.2	50.8
10:00 PM - 11:00 PM	51.1	63.7	50.1
11:00 PM - 12:00 AM	50.9	58.6	49.8
12:00 AM - 01:00 AM	50.3	56.6	49.7
01:00 AM - 02:00 AM	48.8	53.8	47.6
02:00 AM - 03:00 AM	48.1	57.0	47.2
03:00 AM - 04:00 AM	49.1	58.3	47.3
04:00 AM - 05:00 AM	50.7	57.2	49.1
05:00 AM - 06:00 AM	50.3	60.4	47.7
06:00 AM - 07:00 AM	52.9	74.7	44.3
07:00 AM - 08:00 AM	48.1	71.6	41.7
08:00 AM - 09:00 AM	55.2	86.1	39.3
09:00 AM - 10:00 AM	52.0	78.7	36.8
10:00 AM - 11:00 AM	49.2	77.6	36.3
11:00 AM - 12:00 PM	40.7	60.2	34.4
12:00 PM - 01:00 PM	42.4	65.7	34.6
01:00 PM - 02:00 PM	43.3	63.0	36.1
02:00 PM - 03:00 PM	46.1	73.0	36.6
03:00 PM - 04:00 PM	47.4	75.2	38.0
Leq Average 24 hrs. (dB(A))	50.5		
Lmax (dB(A))		86.1	
L90 (dB(A))			41.7
Ldn (dB(A))	56.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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2244-23/ EMAIL S:\Reports_Air Noise.rpt (10:44AM)

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457193-1

Sample Number	25102361-12
Parameter	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date	Nov 12 - Nov 13, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858519

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	59.1	79.8	48.7
05:00 PM - 06:00 PM	58.8	84.8	43.4
06:00 PM - 07:00 PM	53.0	69.4	43.5
07:00 PM - 08:00 PM	53.9	72.7	52.6
08:00 PM - 09:00 PM	54.4	69.2	53.0
09:00 PM - 10:00 PM	55.2	65.3	53.3
10:00 PM - 11:00 PM	53.5	57.3	52.1
11:00 PM - 12:00 AM	54.3	60.3	51.7
12:00 AM - 01:00 AM	54.3	59.8	51.3
01:00 AM - 02:00 AM	54.0	59.3	51.3
02:00 AM - 03:00 AM	52.8	58.9	50.8
03:00 AM - 04:00 AM	52.2	60.3	50.5
04:00 AM - 05:00 AM	50.1	69.3	49.0
05:00 AM - 06:00 AM	49.2	68.6	48.0
06:00 AM - 07:00 AM	47.4	70.4	43.3
07:00 AM - 08:00 AM	47.6	66.8	42.4
08:00 AM - 09:00 AM	47.7	67.3	41.0
09:00 AM - 10:00 AM	47.4	73.0	38.8
10:00 AM - 11:00 AM	46.3	72.9	40.7
11:00 AM - 12:00 PM	45.1	73.3	36.1
12:00 PM - 01:00 PM	55.5	69.6	38.5
01:00 PM - 02:00 PM	49.2	68.7	37.4
02:00 PM - 03:00 PM	46.2	69.6	38.1
03:00 PM - 04:00 PM	47.6	65.0	42.2
Leq Average 24 hrs. (dB(A))	53.2		
Lmax (dB(A))		84.8	
L90 (dB(A))			43.5
Ldn (dB(A))	59.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
Scientist (3)

Approved by
Section Head

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น.10/67

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457207-1

Sample Number	25102361-26
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Nov 11 - Nov 12, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 572562

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	53.4	69.6	52.0
02:00 PM - 03:00 PM	51.9	67.0	50.4
03:00 PM - 04:00 PM	50.2	62.1	48.5
04:00 PM - 05:00 PM	48.8	62.6	47.8
05:00 PM - 06:00 PM	48.0	58.0	47.4
06:00 PM - 07:00 PM	47.9	55.0	47.3
07:00 PM - 08:00 PM	53.0	73.4	47.7
08:00 PM - 09:00 PM	48.4	67.8	47.3
09:00 PM - 10:00 PM	50.6	72.2	47.3
10:00 PM - 11:00 PM	50.0	69.0	47.0
11:00 PM - 12:00 AM	48.6	75.4	44.6
12:00 AM - 01:00 AM	50.9	76.3	42.2
01:00 AM - 02:00 AM	52.1	85.0	40.0
02:00 AM - 03:00 AM	46.5	71.9	35.7
03:00 AM - 04:00 AM	54.4	72.6	49.2
04:00 AM - 05:00 AM	50.6	71.2	48.7
05:00 AM - 06:00 AM	49.0	62.1	47.1
06:00 AM - 07:00 AM	48.0	65.0	46.5
07:00 AM - 08:00 AM	49.2	59.5	48.0
08:00 AM - 09:00 AM	49.0	72.4	47.9
09:00 AM - 10:00 AM	48.4	71.9	46.5
10:00 AM - 11:00 AM	48.5	61.7	46.3
11:00 AM - 12:00 PM	50.3	69.6	46.3
12:00 PM - 01:00 PM	55.8	78.0	46.3
Leq Average 24 hrs. (dB(A))	50.8		
Lmax (dB(A))		85.0	
L90 (dB(A))			47.3
Ldn (dB(A))	57.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457206-1

Sample Number	25102361-25
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Nov 10 - Nov 11, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 572562

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM	56.6	88.0	34.9
02:00 PM - 03:00 PM	45.9	73.5	36.0
03:00 PM - 04:00 PM	49.8	72.6	40.7
04:00 PM - 05:00 PM	54.1	64.7	52.8
05:00 PM - 06:00 PM	53.5	67.0	52.0
06:00 PM - 07:00 PM	53.4	69.6	52.0
07:00 PM - 08:00 PM	51.9	67.0	50.4
08:00 PM - 09:00 PM	50.2	62.1	48.5
09:00 PM - 10:00 PM	48.8	62.6	47.8
10:00 PM - 11:00 PM	48.0	58.0	47.4
11:00 PM - 12:00 AM	47.9	55.0	47.3
12:00 AM - 01:00 AM	53.0	73.4	47.7
01:00 AM - 02:00 AM	48.4	67.8	47.3
02:00 AM - 03:00 AM	50.6	72.2	47.3
03:00 AM - 04:00 AM	50.0	69.0	47.0
04:00 AM - 05:00 AM	48.6	75.4	44.6
05:00 AM - 06:00 AM	50.9	76.3	42.2
06:00 AM - 07:00 AM	52.1	85.0	40.0
07:00 AM - 08:00 AM	46.5	71.9	35.7
08:00 AM - 09:00 AM	56.6	88.0	34.9
09:00 AM - 10:00 AM	45.9	73.5	36.0
10:00 AM - 11:00 AM	49.8	72.6	40.7
11:00 AM - 12:00 PM	54.1	64.7	52.8
12:00 PM - 01:00 PM	53.5	67.0	52.0
Leq Average 24 hrs. (dB(A))	51.9		
Lmax (dB(A))		88.0	
L90 (dB(A))			47.3
Ldn (dB(A))	57.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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2244-23/ EMAIL S:\Reports_Air Noise.rpt (10:48AM)

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 345720-g1

Sample Number	25102361g27
Parameter	Air Buality
Location	(an Lonf Du GSP8 47B 067200-, 1799066)
Measurement Date	Nov 12 gNov 13, 2025
Measurement by	Autit Aoonsim
Sound Level meter	8erial No. 572562

Time	Leq Gd(GA))	Lmax Gd(GA))	L90 Gd(GA))
01:00 PM g02:00 PM	57.-	-2.0	4-.0
02:00 PM g03:00 PM	5-.-	79.5	46.-
03:00 PM g04:00 PM	55.5	71.0	46.0
04:00 PM g05:00 PM	56.3	75.1	45.0
05:00 PM g06:00 PM	53.7	71.2	44.4
06:00 PM g07:00 PM	50.6	69.4	43.3
07:00 PM g0-:00 PM	53.6	71.7	50.9
0-:00 PM g09:00 PM	53.2	70.7	50.0
09:00 PM g10:00 PM	51.-	-0.2	49.4
10:00 PM g11:00 PM	50.2	64.-	4-.7
11:00 PM g12:00 AM	49.3	66.3	47.5
12:00 AM g01:00 AM	50.-	69.3	49.3
01:00 AM g02:00 AM	50.1	60.5	4-.9
02:00 AM g03:00 AM	49.9	6-.-	4-.4
03:00 AM g04:00 AM	4-.6	60.1	47.2
04:00 AM g05:00 AM	4-.3	60.0	46.4
05:00 AM g06:00 AM	50.1	6-.5	46.9
06:00 AM g07:00 AM	54.3	72.1	47.6
07:00 AM g0-:00 AM	55.4	71.5	49.0
0-:00 AM g09:00 AM	54.0	-2.6	46.5
09:00 AM g10:00 AM	52.3	74.0	45.2
10:00 AM g11:00 AM	52.2	-2.7	44.6
11:00 AM g12:00 PM	50.4	76.1	42.7
12:00 PM g01:00 PM	4-.6	75.4	44.6
Leq Averafe 24 hrs. Gd(GA))	53.4		
Lmax Gd(GA))		-2.7	
L90 Gd(GA))			46.9
Ldn Gd(GA))	57.-		
8tandard Gd(GA))	70	115	

ReQerence Method : I8O1996g1 and 1996g2
8tandard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 Gพ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 254-

Technical Management

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8ection Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457189-1

Sample Number	25102361-8
Parameter	Air Quality
Location	Ban Nong Sang (GPS 47Q 0678387, 1805733)
Measurement Date	Nov 14 - Nov 15, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	50.3	67.3	41.0
06:00 PM - 07:00 PM	57.3	70.9	54.3
07:00 PM - 08:00 PM	59.7	82.2	57.2
08:00 PM - 09:00 PM	57.5	64.7	56.2
09:00 PM - 10:00 PM	58.8	65.8	57.8
10:00 PM - 11:00 PM	58.2	64.4	57.2
11:00 PM - 12:00 AM	56.5	64.0	53.7
12:00 AM - 01:00 AM	54.9	58.4	50.8
01:00 AM - 02:00 AM	52.2	57.6	49.8
02:00 AM - 03:00 AM	53.0	72.3	49.4
03:00 AM - 04:00 AM	53.3	65.4	49.6
04:00 AM - 05:00 AM	60.9	86.5	51.1
05:00 AM - 06:00 AM	57.9	72.4	49.0
06:00 AM - 07:00 AM	61.0	82.6	44.4
07:00 AM - 08:00 AM	50.9	75.9	42.8
08:00 AM - 09:00 AM	50.4	69.6	41.5
09:00 AM - 10:00 AM	50.8	71.7	41.5
10:00 AM - 11:00 AM	48.1	71.9	41.1
11:00 AM - 12:00 PM	49.0	73.7	40.2
12:00 PM - 01:00 PM	45.3	66.9	40.5
01:00 PM - 02:00 PM	49.9	84.3	39.3
02:00 PM - 03:00 PM	56.1	81.8	43.0
03:00 PM - 04:00 PM	49.3	76.6	39.7
04:00 PM - 05:00 PM	49.2	75.4	41.2
Leq Average 24 hrs. (dB(A))	55.8		
Lmax (dB(A))		86.5	
L90 (dB(A))			44.4
Ldn (dB(A))	63.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457188-1

Sample Number	25102361-7
Parameter	Air Quality
Location	Ban Nong Sang (GPS 47Q 0678387, 1805733)
Measurement Date	Nov 13 - Nov 14, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	53.9	81.4	41.2
06:00 PM - 07:00 PM	56.8	85.8	52.9
07:00 PM - 08:00 PM	56.5	66.1	54.2
08:00 PM - 09:00 PM	56.7	66.2	54.7
09:00 PM - 10:00 PM	55.0	63.7	53.9
10:00 PM - 11:00 PM	54.0	65.7	52.7
11:00 PM - 12:00 AM	55.2	66.3	52.1
12:00 AM - 01:00 AM	56.7	64.6	51.9
01:00 AM - 02:00 AM	54.4	58.4	50.0
02:00 AM - 03:00 AM	55.8	62.4	52.5
03:00 AM - 04:00 AM	54.4	60.0	50.5
04:00 AM - 05:00 AM	56.1	69.3	52.2
05:00 AM - 06:00 AM	56.0	62.2	49.4
06:00 AM - 07:00 AM	51.1	76.0	44.0
07:00 AM - 08:00 AM	50.9	77.2	42.4
08:00 AM - 09:00 AM	49.7	75.2	41.0
09:00 AM - 10:00 AM	48.7	72.6	40.4
10:00 AM - 11:00 AM	46.5	73.0	39.4
11:00 AM - 12:00 PM	48.7	77.3	39.3
12:00 PM - 01:00 PM	49.1	77.3	39.3
01:00 PM - 02:00 PM	46.5	71.0	38.9
02:00 PM - 03:00 PM	50.9	75.4	39.5
03:00 PM - 04:00 PM	46.9	80.8	39.5
04:00 PM - 05:00 PM	47.8	67.1	40.7
Leq Average 24 hrs. (dB(A))	53.7		
Lmax (dB(A))		85.8	
L90 (dB(A))			44.0
Ldn (dB(A))	61.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 34571908l

Sample Number	2510236189
Parameter	Air f uality
Location	Qan Non- Ban- S(PB 47f 067G3G7, 1G05733)
Measurement Date	Nov 15 8Nov 16, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Berial No. G5G520

Time	Leq SdQSA))	Lmax SdQSA))	L90 SdQSA))
05:00 PM 806:00 PM	51.5	G1.0	41.4
06:00 PM 807:00 PM	55.0	77.7	50.5
07:00 PM 80G:00 PM	53.6	70.9	51.9
0G:00 PM 809:00 PM	56.4	66.6	52.G
09:00 PM 810:00 PM	56.2	60.4	55.2
10:00 PM 811:00 PM	55.9	64.7	55.2
11:00 PM 812:00 AM	55.2	62.9	54.3
12:00 AM 801:00 AM	52.6	70.G	49.3
01:00 AM 802:00 AM	52.6	73.7	49.3
02:00 AM 803:00 AM	4G.G	67.7	47.0
03:00 AM 804:00 AM	49.0	72.7	45.5
04:00 AM 805:00 AM	54.7	74.6	46.3
05:00 AM 806:00 AM	51.6	7G.9	45.G
06:00 AM 807:00 AM	49.1	71.5	39.9
07:00 AM 80G:00 AM	47.9	6G.1	3G.G
0G:00 AM 809:00 AM	46.4	70.G	34.5
09:00 AM 810:00 AM	57.3	G0.6	35.G
10:00 AM 811:00 AM	50.G	7G.G	30.9
11:00 AM 812:00 PM	46.4	70.7	31.4
12:00 PM 801:00 PM	47.4	74.4	29.7
01:00 PM 802:00 PM	44.6	6G.G	29.6
02:00 PM 803:00 PM	50.6	67.4	34.3
03:00 PM 804:00 PM	52.2	57.6	49.G
04:00 PM 805:00 PM	51.1	76.0	44.0
Leq Avera- e 24 hrs. SdQSA))	52.G		
Lmax SdQSA))		G1.0	
L90 SdQSA))			45.5
Ldn SdQSA))	59.3		
Btandard SdQSA))	70	115	

Regerence Method : IBO199681 and 199682
Btandard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 Sพ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 254G

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Approved by

Bection Head

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น.10/71

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457195-1

Sample Number	25102361-14
Parameter	Air Quality
Location	Ban Khao Kham (GPS 47Q 0675850, 1806485)
Measurement Date	Nov 14 - Nov 15, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	45.7	71.3	37.6
04:00 PM - 05:00 PM	48.4	79.5	38.9
05:00 PM - 06:00 PM	56.3	60.8	53.7
06:00 PM - 07:00 PM	60.0	73.8	57.7
07:00 PM - 08:00 PM	61.6	64.1	61.0
08:00 PM - 09:00 PM	61.4	64.0	60.8
09:00 PM - 10:00 PM	61.1	70.8	60.0
10:00 PM - 11:00 PM	59.4	69.8	57.2
11:00 PM - 12:00 AM	56.5	69.9	54.7
12:00 AM - 01:00 AM	55.8	61.5	54.7
01:00 AM - 02:00 AM	55.6	66.4	54.8
02:00 AM - 03:00 AM	52.8	68.5	50.3
03:00 AM - 04:00 AM	52.3	64.4	50.2
04:00 AM - 05:00 AM	52.4	67.0	48.8
05:00 AM - 06:00 AM	49.3	70.6	42.2
06:00 AM - 07:00 AM	46.2	73.5	39.0
07:00 AM - 08:00 AM	43.2	66.5	33.8
08:00 AM - 09:00 AM	40.3	63.3	31.6
09:00 AM - 10:00 AM	40.9	69.5	30.5
10:00 AM - 11:00 AM	40.2	64.5	30.3
11:00 AM - 12:00 PM	38.0	63.3	28.9
12:00 PM - 01:00 PM	42.7	72.6	30.7
01:00 PM - 02:00 PM	40.5	64.3	29.9
02:00 PM - 03:00 PM	41.3	66.0	35.6
Leq Average 24 hrs. (dB(A))	55.5		
Lmax (dB(A))		79.5	
L90 (dB(A))			42.2
Ldn (dB(A))	61.4		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) 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
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457194-1

Sample Number	25102361-13
Parameter	Air Quality
Location	Ban Khao Kham (GPS 47Q 0675850, 1806485)
Measurement Date	Nov 13 - Nov 14, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	45.1	81.8	38.1
04:00 PM - 05:00 PM	48.6	74.2	37.6
05:00 PM - 06:00 PM	53.9	69.2	49.0
06:00 PM - 07:00 PM	57.7	61.4	56.6
07:00 PM - 08:00 PM	59.6	62.3	58.2
08:00 PM - 09:00 PM	61.8	64.1	60.9
09:00 PM - 10:00 PM	62.0	64.4	61.1
10:00 PM - 11:00 PM	61.1	63.4	60.0
11:00 PM - 12:00 AM	58.8	62.3	56.0
12:00 AM - 01:00 AM	52.4	57.6	50.8
01:00 AM - 02:00 AM	51.5	57.2	49.5
02:00 AM - 03:00 AM	51.6	62.9	49.0
03:00 AM - 04:00 AM	52.8	59.0	49.9
04:00 AM - 05:00 AM	49.9	78.3	46.3
05:00 AM - 06:00 AM	47.9	69.2	39.8
06:00 AM - 07:00 AM	46.2	68.2	40.0
07:00 AM - 08:00 AM	44.3	64.4	36.1
08:00 AM - 09:00 AM	39.7	64.7	34.2
09:00 AM - 10:00 AM	39.2	58.1	31.9
10:00 AM - 11:00 AM	43.3	66.2	31.5
11:00 AM - 12:00 PM	46.1	72.4	31.1
12:00 PM - 01:00 PM	42.2	64.1	34.1
01:00 PM - 02:00 PM	47.8	80.6	34.4
02:00 PM - 03:00 PM	44.9	72.2	34.9
Leq Average 24 hrs. (dB(A))	55.3		
Lmax (dB(A))		81.8	
L90 (dB(A))			40.0
Ldn (dB(A))	61.5		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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2244-23/ EMAIL S:\Reports_Air Noise.rpt (10:45AM)

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457196-1

Sample Number	25102361-15
Parameter	Air Quality
Location	Ban Khao Kham (GPS 47Q 0675850, 1806485)
Measurement Date	Nov 15 - Nov 16, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858521

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	42.2	66.9	35.3
04:00 PM - 05:00 PM	46.0	66.6	36.7
05:00 PM - 06:00 PM	56.5	62.2	53.1
06:00 PM - 07:00 PM	60.5	70.7	59.6
07:00 PM - 08:00 PM	60.4	69.8	59.3
08:00 PM - 09:00 PM	60.8	69.4	59.6
09:00 PM - 10:00 PM	60.0	62.8	58.9
10:00 PM - 11:00 PM	58.7	68.8	58.1
11:00 PM - 12:00 AM	58.2	61.2	57.4
12:00 AM - 01:00 AM	56.8	60.9	55.3
01:00 AM - 02:00 AM	55.7	59.2	53.7
02:00 AM - 03:00 AM	56.2	59.2	55.2
03:00 AM - 04:00 AM	53.3	62.0	50.2
04:00 AM - 05:00 AM	49.2	69.6	45.5
05:00 AM - 06:00 AM	47.5	69.6	42.6
06:00 AM - 07:00 AM	46.3	71.7	39.9
07:00 AM - 08:00 AM	44.7	66.1	37.6
08:00 AM - 09:00 AM	42.4	66.5	37.0
09:00 AM - 10:00 AM	42.6	64.0	38.5
10:00 AM - 11:00 AM	40.8	57.2	34.7
11:00 AM - 12:00 PM	37.5	65.1	32.2
12:00 PM - 01:00 PM	39.7	63.7	31.7
01:00 PM - 02:00 PM	40.3	63.2	31.7
02:00 PM - 03:00 PM	48.5	78.7	35.0
Leq Average 24 hrs. (dB(A))	55.3		
Lmax (dB(A))		78.7	
L90 (dB(A))			42.6
Ldn (dB(A))	61.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 345719-g1

Sample Number 25102361g17
Parameter Air Buality
Location (an Tunf Thonf GSP8 47B 06746-7, 1-0576-)
Measurement Date Nov 14 gNov 15, 2025
Measurement by Autit Aoonsim
Sound Level meter 8erial No. 572563

Time	Leq Gl(GA))	Lmax Gl(GA))	L90 Gl(GA))
02:00 PM g03:00 PM	46.1	73.-	32.1
03:00 PM g04:00 PM	46.7	75.7	34.2
04:00 PM g05:00 PM	53.7	74.6	3-.-
05:00 PM g06:00 PM	62.6	76.2	56.2
06:00 PM g07:00 PM	5-.3	79.1	56.2
07:00 PM g0-:00 PM	57.5	72.4	56.0
0-:00 PM g09:00 PM	57.6	75.-	55.2
09:00 PM g10:00 PM	55.5	74.7	51.7
10:00 PM g11:00 PM	57.1	76.0	52.0
11:00 PM g12:00 AM	51.3	70.2	50.0
12:00 AM g01:00 AM	56.3	-1.7	49.4
01:00 AM g02:00 AM	52.0	73.2	4-.0
02:00 AM g03:00 AM	49.9	70.0	47.5
03:00 AM g04:00 AM	49.5	67.9	47.5
04:00 AM g05:00 AM	49.6	6-.9	46.0
05:00 AM g06:00 AM	49.9	73.-	41.4
06:00 AM g07:00 AM	4-.3	-1.1	3-.1
07:00 AM g0-:00 AM	4-.6	73.1	36.4
0-:00 AM g09:00 AM	49.2	74.9	33.0
09:00 AM g10:00 AM	46.2	71.6	34.1
10:00 AM g11:00 AM	49.1	76.0	36.4
11:00 AM g12:00 PM	44.5	67.6	34.1
12:00 PM g01:00 PM	59.0	-5.5	35.4
01:00 PM g02:00 PM	59.3	-7.-	35.1
Leq Averaf e 24 hrs. Gl(GA))	55.2		
Lmax Gl(GA))		-7.-	
L90 Gl(GA))			41.4
Ldn Gl(GA))	59.-		
8tandard Gl(GA))	70	115	

Re@rence Method : I8O1996g1 and 1996g2
8tandard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 254-

Technical Management _____ **Approved by** _____

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457197-1

Sample Number 25102361-16
Parameter Air Quality
Location Ban Tung Thong (GPS 47Q 0674687, 1805768)
Measurement Date Nov 13 - Nov 14, 2025
Measurement by Autit Aoonsim
Sound Level meter Serial No. 572563

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	44.7	78.3	34.8
03:00 PM - 04:00 PM	43.0	67.0	36.6
04:00 PM - 05:00 PM	46.4	75.0	40.0
05:00 PM - 06:00 PM	62.9	70.5	53.9
06:00 PM - 07:00 PM	57.2	73.5	56.0
07:00 PM - 08:00 PM	58.3	76.9	56.6
08:00 PM - 09:00 PM	58.5	78.5	55.9
09:00 PM - 10:00 PM	55.4	65.3	54.4
10:00 PM - 11:00 PM	53.7	58.6	52.9
11:00 PM - 12:00 AM	52.2	55.6	51.3
12:00 AM - 01:00 AM	55.6	78.5	51.8
01:00 AM - 02:00 AM	52.6	55.9	51.8
02:00 AM - 03:00 AM	50.4	67.4	49.4
03:00 AM - 04:00 AM	50.5	68.6	49.3
04:00 AM - 05:00 AM	49.8	67.6	47.5
05:00 AM - 06:00 AM	49.1	72.4	42.2
06:00 AM - 07:00 AM	50.1	80.6	39.9
07:00 AM - 08:00 AM	51.8	80.3	36.7
08:00 AM - 09:00 AM	44.6	78.7	34.0
09:00 AM - 10:00 AM	42.3	66.8	34.4
10:00 AM - 11:00 AM	42.4	68.3	34.2
11:00 AM - 12:00 PM	45.4	66.1	36.3
12:00 PM - 01:00 PM	45.4	65.7	35.7
01:00 PM - 02:00 PM	41.2	67.2	29.1
Leq Average 24 hrs. (dB(A))	54.0		
Lmax (dB(A))		80.6	
L90 (dB(A))			42.2
Ldn (dB(A))	59.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457199-1

Sample Number	25102361-1Q
Parameter	Air Buality
Location	(an Tung Thong GSP8 47B 06746Q7, 1Q0576Q)
Measurement Date	Nov 15 - Nov 16, 2025
Measurement by	Autit Aoonsim
Sound Level meter	8erial No. 572563

Time	Leq Gd(GA))	Lmax Gd(GA))	L90 Gd(GA))
02:00 PM - 03:00 PM	47.5	74.3	39.3
03:00 PM - 04:00 PM	53.7	7Q.5	40.2
04:00 PM - 05:00 PM	52.1	7Q.7	42.4
05:00 PM - 06:00 PM	55.0	74.5	51.Q
06:00 PM - 07:00 PM	53.4	72.5	52.1
07:00 PM - 0Q:00 PM	53.1	75.9	52.0
0Q:00 PM - 09:00 PM	54.0	76.7	52.0
09:00 PM - 10:00 PM	52.6	65.0	51.Q
10:00 PM - 11:00 PM	51.6	67.6	50.4
11:00 PM - 12:00 AM	51.1	6Q.7	50.1
12:00 AM - 01:00 AM	50.Q	62.7	49.Q
01:00 AM - 02:00 AM	50.0	53.2	49.2
02:00 AM - 03:00 AM	47.Q	64.4	46.7
03:00 AM - 04:00 AM	49.2	67.7	47.0
04:00 AM - 05:00 AM	4Q.5	67.3	46.3
05:00 AM - 06:00 AM	4Q.6	71.Q	42.5
06:00 AM - 07:00 AM	51.0	Q2.2	39.5
07:00 AM - 0Q:00 AM	49.7	79.7	3Q.3
0Q:00 AM - 09:00 AM	44.2	69.1	35.Q
09:00 AM - 10:00 AM	46.1	QQ.7	34.0
10:00 AM - 11:00 AM	44.4	73.Q	33.1
11:00 AM - 12:00 PM	3Q.6	64.4	33.1
12:00 PM - 01:00 PM	4Q.3	75.9	33.2
01:00 PM - 02:00 PM	4Q.0	7Q.4	33.5
Leq Average 24 hrs. Gd(GA))	50.Q		
Lmax Gd(GA))		Q2.2	
L90 Gd(GA))			42.5
Ldn Gd(GA))	56.6		
8tandard Gd(GA))	70	115	

Reference Method : I8O1996-1 and 1996-2
8tandard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 Gพ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 254Q

Technical Management _____ **Approved by** _____

8cientist G3) 8ection Head

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457201-1

Sample Number	25102361-20
Parameter	Air Quality
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Measurement Date	Nov 14 - Nov 15, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858519

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	52.7	82.0	39.8
05:00 PM - 06:00 PM	58.0	89.2	47.0
06:00 PM - 07:00 PM	62.5	94.3	54.6
07:00 PM - 08:00 PM	56.3	60.0	54.5
08:00 PM - 09:00 PM	57.3	83.6	55.0
09:00 PM - 10:00 PM	57.5	84.4	54.4
10:00 PM - 11:00 PM	54.3	64.8	52.7
11:00 PM - 12:00 AM	53.7	66.4	52.9
12:00 AM - 01:00 AM	57.6	84.4	49.1
01:00 AM - 02:00 AM	55.3	84.0	48.0
02:00 AM - 03:00 AM	53.4	93.5	46.9
03:00 AM - 04:00 AM	49.3	74.4	45.8
04:00 AM - 05:00 AM	52.3	76.1	47.9
05:00 AM - 06:00 AM	52.8	80.3	46.3
06:00 AM - 07:00 AM	51.1	73.6	42.1
07:00 AM - 08:00 AM	54.6	87.2	42.6
08:00 AM - 09:00 AM	54.5	80.7	43.2
09:00 AM - 10:00 AM	59.8	90.0	40.5
10:00 AM - 11:00 AM	50.6	82.8	40.0
11:00 AM - 12:00 PM	51.2	76.2	39.0
12:00 PM - 01:00 PM	47.5	79.1	39.5
01:00 PM - 02:00 PM	55.2	76.6	38.1
02:00 PM - 03:00 PM	52.6	79.9	39.4
03:00 PM - 04:00 PM	51.1	81.1	38.6
Leq Average 24 hrs. (dB(A))	55.6		
Lmax (dB(A))		94.3	
L90 (dB(A))			45.8
Ldn (dB(A))	60.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management _____ **Approved by** _____

Scientist (3) Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457200-1

Sample Number	25102361-19
Parameter	Air Quality
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Measurement Date	Nov 13 - Nov 14, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858519

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	53.6	85.0	40.1
05:00 PM - 06:00 PM	60.8	92.1	46.7
06:00 PM - 07:00 PM	61.5	90.9	52.2
07:00 PM - 08:00 PM	58.8	84.3	54.6
08:00 PM - 09:00 PM	59.6	86.3	55.2
09:00 PM - 10:00 PM	58.6	92.3	54.3
10:00 PM - 11:00 PM	58.9	91.3	52.1
11:00 PM - 12:00 AM	61.8	92.3	51.9
12:00 AM - 01:00 AM	52.9	80.4	50.1
01:00 AM - 02:00 AM	50.7	57.4	49.4
02:00 AM - 03:00 AM	50.6	64.9	49.3
03:00 AM - 04:00 AM	51.7	65.5	49.9
04:00 AM - 05:00 AM	53.5	71.9	51.1
05:00 AM - 06:00 AM	56.7	83.5	49.2
06:00 AM - 07:00 AM	52.3	76.2	43.9
07:00 AM - 08:00 AM	54.4	81.9	42.8
08:00 AM - 09:00 AM	51.1	78.6	40.0
09:00 AM - 10:00 AM	49.8	76.8	39.4
10:00 AM - 11:00 AM	44.2	67.2	39.1
11:00 AM - 12:00 PM	44.3	72.6	39.2
12:00 PM - 01:00 PM	46.5	69.0	40.8
01:00 PM - 02:00 PM	53.7	88.9	39.2
02:00 PM - 03:00 PM	50.4	81.1	38.7
03:00 PM - 04:00 PM	52.4	85.9	39.6
Leq Average 24 hrs. (dB(A))	56.2		
Lmax (dB(A))		92.3	
L90 (dB(A))			46.7
Ldn (dB(A))	62.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID: 25102361
Date Received : Nov 19, 2025
Date Reported : Nov 22, 2025
Report Number: 3457202-1

Sample Number	25102361-21
Parameter	Air Quality
Location	Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Measurement Date	Nov 15 - Nov 16, 2025
Measurement by	Autit Aoonsim
Sound Level meter	Serial No. 858519

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	47.8	75.1	39.4
05:00 PM - 06:00 PM	55.1	87.1	42.5
06:00 PM - 07:00 PM	52.9	86.7	48.8
07:00 PM - 08:00 PM	54.1	82.6	48.9
08:00 PM - 09:00 PM	58.9	90.5	50.1
09:00 PM - 10:00 PM	55.2	81.0	52.7
10:00 PM - 11:00 PM	54.5	56.7	53.7
11:00 PM - 12:00 AM	56.8	80.6	52.6
12:00 AM - 01:00 AM	55.4	86.2	49.3
01:00 AM - 02:00 AM	49.3	64.0	48.4
02:00 AM - 03:00 AM	52.5	77.4	47.9
03:00 AM - 04:00 AM	48.7	64.0	46.7
04:00 AM - 05:00 AM	52.1	73.7	47.4
05:00 AM - 06:00 AM	53.7	78.5	47.9
06:00 AM - 07:00 AM	55.6	86.6	43.4
07:00 AM - 08:00 AM	56.5	84.6	42.5
08:00 AM - 09:00 AM	54.1	79.5	43.0
09:00 AM - 10:00 AM	55.1	78.2	43.0
10:00 AM - 11:00 AM	60.1	85.7	41.3
11:00 AM - 12:00 PM	56.1	79.5	40.5
12:00 PM - 01:00 PM	49.4	76.6	40.1
01:00 PM - 02:00 PM	60.2	76.7	49.1
02:00 PM - 03:00 PM	54.3	64.8	52.7
03:00 PM - 04:00 PM	56.7	83.5	49.2
Leq Average 24 hrs. (dB(A))	55.5		
Lmax (dB(A))		90.5	
L90 (dB(A))			47.9
Ldn (dB(A))	60.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Technical Management
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Approved by
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น.10/77

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-2
Sample Description Vibration
Location Ban Khao Mor (GPS 47Q 0675703, 1804307)
Sampled Date Aug 23 - Aug 24, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1618	1618	1618
Sensitivity	-	0.254 mm/s	0.1 dB

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 23, 2025	12:05 PM	0.625	25.000	0.006	0.625	25.000	0.006	1.350	19.200	0.015	124
Max		**0.625**	**25.000**	**0.006**	**0.625**	**25.000**	**0.006**	**1.350**	**19.200**	**0.015**	**124**
Standard		**27.500**	**25.000**	**-**	**27.500**	**25.000**	**-**	**24.600**	**19.200**	**-**	**-**

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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Assistant General Manager

9.1.10/78

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-1
Sample Description Vibration
Location Ban Dong Long (GPS 47Q 0678205, 1802158)
Sampled Date Aug 23 - Aug 24, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1617	1617	1617
Sensitivity	-	0.254 mm/s	0.1 dB

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 23, 2025	12:05 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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Assistant General Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-4
Sample Description Vibration
Location Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Sampled Date Aug 23 - Aug 24, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1822	1822	1822
Sensitivity	-	0.254 mm/s	0.1 dB

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 23, 2025	12:05 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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Assistant General Manager

9L 10/79

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-3
Sample Description Vibration
Location Ban Khao Kham (GPS 47Q 0675850, 1806485)
Sampled Date Aug 23 - Aug 24, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1852	1852	1852
Sensitivity	-	0.254 mm/s	0.1 dB

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 23, 2025	12:05 PM	0.575	41.700	0.018	0.150	-	0.010	0.150	-	0.015	106
Max		**0.575**	**41.700**	**0.018**	**0.150**	**-**	**0.010**	**0.150**	**-**	**0.015**	**106**
Standard		**35.850**	**41.700**	-	-	-	-	-	-	-	-

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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Assistant General Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-6
Sample Description Vibration
Location Ban Tung Thong (GPS 47Q 0674687, 1805768)
Sampled Date Aug 21 - Aug 22, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1617	1617	1617
Sensitivity	-	0.254 mm/s	0.1 dB

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, 2025	12:05 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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Assistant General Manager

14.10/80

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-5
Sample Description Vibration
Location Ban Nong Sang (GPS 47Q 0678387, 1805733)
Sampled Date Aug 21 - Aug 22, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1822	1822	1822
Sensitivity	-	0.254 mm/s	0.1 dB

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, 2025	12:05 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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 : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 2576235
Date Received :Aug 28, 2025
Date Reported :Sep 03, 2025
Report Number :3382279-1

Sample Number 2576235-7
Sample Description Vibration
Location Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Sampled Date Aug 21 - Aug 22, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1852	1852	1852
Sensitivity	-	0.254 mm/s	0.1 dB

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, 2025	12:05 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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 : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-2
Sample Description Vibration
Location Ban Khao Mor (GPS 47Q 0675703, 1804307)
Sampled Date Nov 10 - Nov 11, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1822	1822	1822
Sensitivity	-	0.254 mm/s	0.1 dB

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 11, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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Assistant General Manager

14.10/82

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-1
Sample Description Vibration
Location Ban Dong Long (GPS 47Q 0678205, 1802158)
Sampled Date Nov 10 - Nov 11, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1618	1618	1618
Sensitivity	-	0.254 mm/s	0.1 dB

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 11, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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Assistant General Manager

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-4
Sample Description Vibration
Location Ban Nong Ra Man (GPS 47Q 0674684, 1802590)
Sampled Date Nov 10 - Nov 11, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1852	1852	1852
Sensitivity	-	0.254 mm/s	0.1 dB

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 11, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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14.10/83

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-3
Sample Description Vibration
Location Ban Khao Kham (GPS 47Q 0675850, 1806485)
Sampled Date Nov 13 - Nov 14, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1618	1618	1618
Sensitivity	-	0.254 mm/s	0.1 dB

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 14, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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 : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-6
Sample Description Vibration
Location Ban Tung Thong (GPS 47Q 0674687, 1805768)
Sampled Date Nov 13 - Nov 14, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1617	1617	1617
Sensitivity	-	0.254 mm/s	0.1 dB

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 14, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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).

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Assistant General Manager

9.1.10/84

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-5
Sample Description Vibration
Location Ban Nong Sang (GPS 47Q 0678387, 1805733)
Sampled Date Nov 13 - Nov 14, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1852	1852	1852
Sensitivity	-	0.254 mm/s	0.1 dB

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 14, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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Assistant General Manager

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :

Lot ID : 25102358
Date Received :Nov 19, 2025
Date Reported :Nov 25, 2025
Report Number :3444442-1

Sample Number 25102358-7
Sample Description Vibration
Location Ban Mai Klong Ta Lud (GPS 47Q 0676588, 1807193)
Sampled Date Nov 13 - Nov 14, 2025
Sampled by

Equipment Data			
Description	Data Logger	Geophone	Microphone
Brand	Vibrock	Vibrock	Vibrock
Model	V901	V901	V901
S/N	1822	1822	1822
Sensitivity	-	0.254 mm/s	0.1 dB

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 14, 2025	12:15 PM	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max		**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**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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CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**2576056**
Contact		Date Samples Received	Aug 21, 2025 01:00 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Sep 05, 2025 10:29 PM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		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.

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project : CHATREE

Analytical Results

	Client sample ID		SW6808ST1	SW6808ST2	SW6808ST15	SW6808ST9	SW6808ST10	SW6808ST11	SW6808ST13
	Client sampling date / time		18-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25
Compound	LOR	Unit	**2576056-1**	**2576056-2**	**2576056-3**	**2576056-4**	**2576056-5**	**2576056-6**	**2576056-7**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	89	164	4012	4248	1568	608	135
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	10	8	6	<5	<5	6	<5
EA065: Total Hardness									
Total Hardness	1	mg/L	61	110	2944	3054	1605	507	97
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	65	95	100	115	70	75	100
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	65	95	100	115	70	75	100
ED041G: Sulfate									
Sulfate	1.0	mg/L	8.7	36.2	2762	2831	931	466	9.0
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	5.3	4.7	4.0	4.0	3.1	2.8	3.6
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	16.2	26.0	546	573	345	83.9	25.9
Magnesium	0.10	mg/L	4.93	11.3	383	393	180	71.8	8.13
Potassium	0.10	mg/L	2.88	2.62	13.5	12.8	12.5	8.01	2.57
Sodium	0.10	mg/L	11.8	20.9	32.0	30.3	18.5	10.6	12.5
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	0.005	<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	0.86	0.48	0.14	<0.05	0.27	<0.05	0.42
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.14	0.13	0.28	0.78	2.34	0.10	0.19
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

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project : CHATREE

Analytical Results

Client sample ID			SW6808ST1	SW6808ST2	SW6808ST15	SW6808ST9	SW6808ST10	SW6808ST11	SW6808ST13
Client sampling date / time			18-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25
Compound	LOR	Unit	2576056-1	2576056-2	2576056-3	2576056-4	2576056-5	2576056-6	2576056-7
EN055: Ionic Balance									
Ionic Balance	0	%	0.41	13.83	2.05	2.37	24.26	0.23	0.65
Total Anions	0.01	mEq/L	1.39	2.43	58.07	59.72	20.23	10.81	1.92
Total Cations	0.01	mEq/L	1.80	3.21	60.50	62.63	33.19	10.76	2.57
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	4.69	6.00	1.64	1.08	1.78	5.95	5.67
Turbidity									
Turbidity	0.1	NTU	6.8	7.2	2.0	1.4	6.2	5.7	4.7

LOR = Limit of reporting

Approved by

Senior Manager

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6808ST14	SW6808ST16	SW6808ST17	SW6808ST18	SW6808ST20	SW6808ST21	SW6808ST22
Client sampling date / time			18-Aug-25	18-Aug-25	20-Aug-25	20-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25
Compound	LOR	Unit	2576056-8	2576056-9	2576056-10	2576056-11	2576056-12	2576056-13	2576056-14
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	138	98	1884	664	1880	2720	134
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	8	23	<5	9	10	<5	38
EA065: Total Hardness									
Total Hardness	1	mg/L	95	77	2056	591	1780	2565	76
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	100	80	70	85	60	95	80
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	100	80	70	85	60	95	80
ED041G: Sulfate									
Sulfate	1.0	mg/L	19.9	16.1	1605	576	1460	2313	23.6
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	4.1	4.7	4.5	5.3	3.3	3.5	4.5
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	23.6	20.4	386	100	331	498	21.1
Magnesium	0.10	mg/L	9.02	6.68	265	83.4	232	321	6.19
Potassium	0.10	mg/L	2.46	2.41	7.69	9.82	11.5	12.4	3.73
Sodium	0.10	mg/L	17.2	12.6	33.1	20.5	16.9	28.1	12.5
EG020T: Total Metals by ICP-MS									
Arsenic	0.001	mg/L	0.002	0.002	<0.001	0.002	0.002	<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	0.002	0.003	<0.001	0.005	0.001	<0.001	0.005
Iron	0.05	mg/L	0.61	1.90	0.15	0.12	0.13	<0.05	2.07
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.10	0.13	0.17	0.50	1.15	0.23	0.17
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

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6808ST14	SW6808ST16	SW6808ST17	SW6808ST18	SW6808ST20	SW6808ST21	SW6808ST22
Client sampling date / time			18-Aug-25	18-Aug-25	20-Aug-25	20-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25
Compound	LOR	Unit	2576056-8	2576056-9	2576056-10	2576056-11	2576056-12	2576056-13	2576056-14
EN055: Ionic Balance									
Ionic Balance	0	%	0.57	0.40	11.35	1.11	8.55	3.95	0.28
Total Anions	0.01	mEq/L	2.16	1.77	34.01	13.30	30.84	48.83	1.92
Total Cations	0.01	mEq/L	2.73	2.18	42.72	13.00	36.61	52.85	2.20
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	5.62	5.13	3.64	6.75	3.56	1.62	5.49
Turbidity									
Turbidity	0.1	NTU	6.8	27	2.2	14	9.6	1.5	31

LOR = Limit of reporting

Approved by _____

Senior Manager

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6808ST23	SW6808ST27	SW6808ST28	SW6808ST30	SW6808ST31	SW6808ST33	SW6808ST36
Client sampling date / time			18-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25	19-Aug-25	20-Aug-25
Compound	LOR	Unit	2576056-15	2576056-16	2576056-17	2576056-18	2576056-19	2576056-20	2576056-21
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	129	968	544	2516	1420	1268	1940
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	6	<5	16	<5	56	<5	<5
EA065: Total Hardness									
Total Hardness	1	mg/L	86	1082	415	2505	1453	1257	1952
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	90	115	65	18	22	2	60
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	90	115	65	18	22	2	60
ED041G: Sulfate									
Sulfate	1.0	mg/L	13.5	918	371	2325	1273	946	1593
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	3.8	3.0	4.7	4.4	2.9	2.2	8.9
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	22.0	258	97.0	444	340	287	348
Magnesium	0.10	mg/L	7.91	105	43.4	340	143	131	258
Potassium	0.10	mg/L	2.31	8.78	6.75	15.4	10.2	11.4	5.80
Sodium	0.10	mg/L	14.8	11.2	11.4	17.0	24.1	13.0	46.1
EG020T: Total Metals by ICP-MS									
Arsenic	0.001	mg/L	0.001	0.002	0.005	<0.001	0.004	<0.001	<0.001
Cobalt	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001
Copper	0.001	mg/L	0.003	0.001	0.001	0.002	0.003	0.002	0.002
Iron	0.05	mg/L	0.57	0.08	0.06	0.05	1.33	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	0.06	0.14	0.20	0.05	0.33	1.43	0.13
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

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6808ST23	SW6808ST27	SW6808ST28	SW6808ST30	SW6808ST31	SW6808ST33	SW6808ST36
Client sampling date / time			18-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25	19-Aug-25	20-Aug-25
Compound	LOR	Unit	2576056-15	2576056-16	2576056-17	2576056-18	2576056-19	2576056-20	2576056-21
EN055: Ionic Balance									
Ionic Balance	0	%	0.60	3.57	1.78	3.46	6.49	14.44	9.39
Total Anions	0.01	mEq/L	1.86	20.68	8.76	47.83	26.41	19.39	33.72
Total Cations	0.01	mEq/L	2.45	22.21	9.08	51.25	30.07	25.94	40.71
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	5.81	2.17	6.79	1.74	4.29	1.77	3.00
Turbidity									
Turbidity	0.1	NTU	6.5	1.1	12	0.90	9.3	0.65	1.4

LOR = Limit of reporting

Approved by _____

Senior Manager

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6808ST37	SW6808ST39	SW6808ST40	SW6808ST41	----	----	----
Client sampling date / time			19-Aug-25	19-Aug-25	18-Aug-25	19-Aug-25	----	----	----
Compound	LOR	Unit	2576056-22	2576056-23	2576056-24	2576056-25	----	----	----
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	664	696	366	964	----	----	----
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	<5	6	<5	<5	----	----	----
EA065: Total Hardness									
Total Hardness	1	mg/L	567	651	301	1158	----	----	----
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	18	70	65	65	----	----	----
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	18	70	65	65	----	----	----
ED041G: Sulfate									
Sulfate	1.0	mg/L	607	584	259	1024	----	----	----
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.6	5.7	2.8	2.0	----	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	143	165	71.3	227	----	----	----
Magnesium	0.10	mg/L	51.3	55.9	31.0	150	----	----	----
Potassium	0.10	mg/L	3.59	12.0	7.42	5.21	----	----	----
Sodium	0.10	mg/L	16.9	10.3	4.02	23.2	----	----	----
EG020T: Total Metals by ICP-MS									
Arsenic	0.001	mg/L	0.001	0.004	0.005	0.001	----	----	----
Cobalt	0.001	mg/L	<0.001	0.001	<0.001	<0.001	----	----	----
Copper	0.001	mg/L	0.002	0.03	<0.001	<0.001	----	----	----
Iron	0.05	mg/L	0.10	0.06	<0.05	0.10	----	----	----
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	----	----	----
Manganese	0.001	mg/L	0.11	0.15	0.13	0.29	----	----	----
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	----	----	----

LOR = Limit of reporting

Approved by _____

Senior Manager

ALS Lot No. : 2576056
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		SW6808ST37	SW6808ST39	SW6808ST40	SW6808ST41	----	----	----
	Client sampling date / time		19-Aug-25	19-Aug-25	18-Aug-25	19-Aug-25	----	----	----
Compound	LOR	Unit	2576056-22	2576056-23	2576056-24	2576056-25	----	----	----
EN055: Ionic Balance									
Ionic Balance	0	%	2.09	1.46	0.35	6.07	----	----	----
Total Anions	0.01	mEq/L	12.72	13.22	6.43	22.01	----	----	----
Total Cations	0.01	mEq/L	12.20	13.61	6.47	24.85	----	----	----
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	2.08	4.97	4.08	2.0	----	----	----
Turbidity									
Turbidity	0.1	NTU	1.9	4.8	3.0	2.0	----	----	----

LOR = Limit of reporting

Approved by

Senior Manager

CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**25101837**
Contact		Date Samples Received	Nov 14, 2025 01:00 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Dec 01, 2025 03:27 PM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		Project	CHATREE
Telephone	0-5661-4500	No. of samples received	26
Facsimile	0-5661-4190	No. of samples analysed	26

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.

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	SW6811ST1	SW6811ST2	SW6811ST10	SW6811ST11	SW6811ST13	SW6811ST14	SW6811ST15
			Client sampling date / time	10-Nov-25	10-Nov-25	13-Nov-25	13-Nov-25	10-Nov-25	10-Nov-25	11-Nov-25
Compound	LOR	Unit		25101837-1	25101837-2	25101837-3	25101837-4	25101837-5	25101837-6	25101837-7
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		118	416	1805	485	148	125	2090
EA025: Suspended Solids										
Total Suspended Solids	5	mg/L		10	22	<5	<5	<5	<5	<5
EA065: Total Hardness										
Total Hardness	1	mg/L		68	299	1370	296	116	82	1920
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		56	76	86	71	111	96	66
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		56	76	86	71	111	96	66
ED041G: Sulfate										
Sulfate	1.0	mg/L		11.6	265	1324	261	34.1	8.7	2149
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		6.1	8.2	2.6	1.8	6.7	4.1	4.4
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		18.3	53.0	310	43.9	28.8	22.1	361
Magnesium	0.10	mg/L		5.29	40.5	143	45.3	10.7	6.56	247
Potassium	0.10	mg/L		5.42	9.23	11.2	5.27	5.24	3.49	9.03
Sodium	0.10	mg/L		10.8	12.4	18.3	6.32	16.9	10.8	20.4
EG020T: Total Metals by ICP-MS										
Arsenic	0.001	mg/L		0.002	0.003	<0.001	<0.001	0.002	0.002	<0.001
Cobalt	0.001	mg/L		<0.001	<0.001	0.01	<0.001	<0.001	<0.001	<0.001
Copper	0.001	mg/L		0.002	0.001	0.001	<0.001	0.002	0.002	0.001
Iron	0.05	mg/L		1.45	1.48	0.72	0.07	0.43	0.19	<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		0.30	0.77	4.26	0.16	0.13	0.05	0.48
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

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6811ST1	SW6811ST2	SW6811ST10	SW6811ST11	SW6811ST13	SW6811ST14	SW6811ST15
Client sampling date / time			10-Nov-25	10-Nov-25	13-Nov-25	13-Nov-25	10-Nov-25	10-Nov-25	11-Nov-25
Compound	LOR	Unit	25101837-1	25101837-2	25101837-3	25101837-4	25101837-5	25101837-6	25101837-7
EN055: Ionic Balance									
Ionic Balance	0	%	0.64	0.90	0.26	1.54	8.03	0.33	6.54
Total Anions	0.01	mEq/L	1.32	6.87	28.47	6.52	2.71	1.87	45.02
Total Cations	0.01	mEq/L	1.96	6.75	28.32	6.33	3.18	2.20	39.49
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	6.33	9.12	1.43	7.14	6.14	5.22	2.18
Turbidity									
Turbidity	0.1	NTU	7.6	20	11	4.0	3.1	2.6	1.2

LOR = Limit of reporting

Approved by

Senior Manager

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6811ST16	SW6811ST17	SW6811ST18	SW6811ST20	SW6811ST21	SW6811ST22	SW6811ST23
Client sampling date / time			10-Nov-25	12-Nov-25	12-Nov-25	12-Nov-25	11-Nov-25	10-Nov-25	10-Nov-25
Compound	LOR	Unit	25101837-8	25101837-9	25101837-10	25101837-11	25101837-12	25101837-13	25101837-14
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	160	1016	636	1808	2968	190	212
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	15	<5	7	<5	<5	39	18
EA065: Total Hardness									
Total Hardness	1	mg/L	93	1052	468	1594	2181	113	144
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	96	81	86	66	86	142	147
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	96	81	86	66	86	142	147
ED041G: Sulfate									
Sulfate	1.0	mg/L	11.5	1146	450	1731	2414	6.5	24.2
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	6.5	4.9	6.3	3.0	3.0	7.6	9.1
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	24.7	196	94.1	260	422	30.0	36.1
Magnesium	0.10	mg/L	7.69	137	56.6	229	273	9.22	13.1
Potassium	0.10	mg/L	4.32	5.34	8.74	10.6	10.5	7.46	10.2
Sodium	0.10	mg/L	13.1	24.8	30.0	12.0	24.4	18.8	16.5
EG020T: Total Metals by ICP-MS									
Arsenic	0.001	mg/L	0.002	<0.001	0.001	0.002	<0.001	0.007	0.007
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	0.002	0.001
Iron	0.05	mg/L	2.37	0.11	0.12	0.07	0.06	3.87	1.53
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.53	0.24	0.86	1.22	0.14	1.40	1.37
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

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6811ST16	SW6811ST17	SW6811ST18	SW6811ST20	SW6811ST21	SW6811ST22	SW6811ST23
Client sampling date / time			10-Nov-25	12-Nov-25	12-Nov-25	12-Nov-25	11-Nov-25	10-Nov-25	10-Nov-25
Compound	LOR	Unit	25101837-8	25101837-9	25101837-10	25101837-11	25101837-12	25101837-13	25101837-14
EN055: Ionic Balance									
Ionic Balance	0	%	0.55	5.48	0.50	5.60	6.14	10.01	10.05
Total Anions	0.01	mEq/L	1.99	24.84	10.77	36.46	50.72	2.67	3.15
Total Cations	0.01	mEq/L	2.54	22.26	10.88	32.60	44.86	3.26	3.86
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	6.79	3.98	7.75	2.98	1.91	11.4	11.0
Turbidity									
Turbidity	0.1	NTU	20	1.1	12	4.0	2.1	30	22

LOR = Limit of reporting

Approved by

Senior Manager

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6811ST27	SW6811ST28	SW6811ST29	SW6811ST30	SW6811ST31	SW6811ST33	SW6811ST36
Client sampling date / time			12-Nov-25	11-Nov-25	12-Nov-25	12-Nov-25	11-Nov-25	11-Nov-25	12-Nov-25
Compound	LOR	Unit	25101837-15	25101837-16	25101837-17	25101837-18	25101837-19	25101837-20	25101837-21
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	1096	384	1620	1885	1304	1236	1915
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	<5	<5	<5	<5	<5	<5	<5
EA065: Total Hardness									
Total Hardness	1	mg/L	1024	309	1506	2092	1402	1080	1944
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	116	81	51	13	61	3	66
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	81	51	13	61	3	66
ED041G: Sulfate									
Sulfate	1.0	mg/L	1022	192	1630	2278	1510	1009	2041
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	2.6	2.9	2.2	3.6	2.7	2.5	7.1
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	198	72.6	402	352	236	246	359
Magnesium	0.10	mg/L	130	31.0	114	295	197	110	255
Potassium	0.10	mg/L	6.40	4.59	7.90	11.8	10.1	9.14	5.02
Sodium	0.10	mg/L	9.42	4.98	31.3	13.1	10.7	10.6	34.5
EG020T: Total Metals by ICP-MS									
Arsenic	0.001	mg/L	0.001	0.004	<0.001	<0.001	0.001	<0.001	<0.001
Cobalt	0.001	mg/L	<0.001	<0.001	0.001	<0.001	<0.001	0.008	<0.001
Copper	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	0.01	<0.001
Iron	0.05	mg/L	<0.05	0.11	<0.05	<0.05	0.07	0.10	<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	0.11	0.38	0.23	0.01	0.28	2.36	0.29
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

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6811ST27	SW6811ST28	SW6811ST29	SW6811ST30	SW6811ST31	SW6811ST33	SW6811ST36
Client sampling date / time			12-Nov-25	11-Nov-25	12-Nov-25	12-Nov-25	11-Nov-25	11-Nov-25	12-Nov-25
Compound	LOR	Unit	25101837-15	25101837-16	25101837-17	25101837-18	25101837-19	25101837-20	25101837-21
EN055: Ionic Balance									
Ionic Balance	0	%	3.75	9.96	4.79	4.49	5.15	3.04	2.88
Total Anions	0.01	mEq/L	22.82	5.33	34.14	46.76	31.86	20.68	42.90
Total Cations	0.01	mEq/L	21.17	6.51	31.01	42.75	28.74	21.98	40.49
EP005: Total Organic Carbon									
Total Organic Carbon	0.1	mg/L	2.38	4.20	0.78	1.41	3.07	1.33	1.70
Turbidity									
Turbidity	0.1	NTU	1.6	6.5	0.70	0.45	2.7	0.95	1.3

LOR = Limit of reporting

Approved by

Senior Manager

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

Client sample ID			SW6811ST37	SW6811ST39	SW6811ST40	SW6811ST41	SW6811ST9	----	----
Client sampling date / time			12-Nov-25	12-Nov-25	11-Nov-25	12-Nov-25	11-Nov-25	----	----
Compound	LOR	Unit	25101837-22	25101837-23	25101837-24	25101837-25	25101837-26	----	----
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	804	836	138	984	2930	----	----
EA025: Suspended Solids									
Total Suspended Solids	5	mg/L	<5	6	<5	<5	<5	----	----
EA065: Total Hardness									
Total Hardness	1	mg/L	783	566	115	1004	2440	----	----
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	20	91	51	61	86	----	----
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	20	91	51	61	86	----	----
ED041G: Sulfate									
Sulfate	1.0	mg/L	821	523	66.7	1002	2179	----	----
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	2.0	4.0	<1.0	1.2	4.1	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	175	149	27.4	184	501	----	----
Magnesium	0.10	mg/L	76.8	47.0	11.3	126	287	----	----
Potassium	0.10	mg/L	3.26	10.4	3.51	4.55	10.4	----	----
Sodium	0.10	mg/L	16.7	7.31	1.66	16.9	28.0	----	----
EG020T: Total Metals by ICP-MS									
Arsenic	0.001	mg/L	<0.001	0.004	0.003	<0.001	<0.001	----	----
Cobalt	0.001	mg/L	<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	----	----
Iron	0.05	mg/L	<0.05	<0.05	0.05	0.09	0.05	----	----
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	----	----
Manganese	0.001	mg/L	0.07	0.29	0.08	0.51	0.40	----	----
EG035T: Total Recoverable 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-1: Cyanide WAD Discrete analyzer									
Weak Acid Dissociable Cyanide	0.002	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	----	----

LOR = Limit of reporting

Approved by

Senior Manager

ALS Lot No. : 25101837
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	SW6811ST37	SW6811ST39	SW6811ST40	SW6811ST41	SW6811ST9	----	----
			Client sampling date / time	12-Nov-25	12-Nov-25	11-Nov-25	12-Nov-25	11-Nov-25	----	----
Compound	LOR	Unit		25101837-22	25101837-23	25101837-24	25101837-25	25101837-26	----	----
EN055: Ionic Balance										
Ionic Balance	0	%		3.78	1.51	0.25	2.51	4.36	----	----
Total Anions	0.01	mEq/L		17.14	12.26	2.21	21.46	45.97	----	----
Total Cations	0.01	mEq/L		15.89	11.90	2.46	20.41	50.16	----	----
EP005: Total Organic Carbon										
Total Organic Carbon	0.1	mg/L		2.07	4.59	2.74	4.13	1.26	----	----
Turbidity										
Turbidity	0.1	NTU		1.1	6.3	2.0	2.0	1.5	----	----

LOR = Limit of reporting

Approved by _____

Senior Manager

CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**2576065**
Contact		Date Samples Received	Aug 20, 2025 12:00 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Aug 29, 2025 09:31 AM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		Project	CHATREE
Telephone	0-5661-4500	No. of samples received	24
Facsimile	0-5661-4190	No. of samples analysed	24

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

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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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ALS Lot No. : 2576065
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	GW6808ST4	GW6808ST5	GW6808ST7	GW6808ST8	GW6808ST9	GW6808ST10	GW6808ST11
			Client sampling date / time	18-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25
Compound	LOR	Unit		**2576065-1**	**2576065-2**	**2576065-3**	**2576065-4**	**2576065-5**	**2576065-6**	**2576065-7**
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		328	356	384	172	208	284	203
EA065: Total Hardness										
Total Hardness	1	mg/L		251	319	268	113	140	186	108
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		250	290	350	100	120	225	115
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		250	290	350	100	120	225	115
ED041G: Sulfate										
Sulfate	1.0	mg/L		38.7	2.6	35.2	37.3	34.8	39.2	20.7
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		10.2	1.2	19.4	9.1	6.7	10.5	2.2
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		73.5	112	69.1	38.2	35.3	51.4	29.5
Magnesium	0.10	mg/L		16.4	9.45	23.2	4.33	12.5	14.0	8.40
Potassium	0.10	mg/L		0.51	0.59	0.32	4.97	0.39	0.37	1.42
Sodium	0.10	mg/L		35.1	16.8	76.8	14.8	18.0	53.6	16.1
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)										
Arsenic	0.001	mg/L		0.004	0.001	0.003	0.004	<0.001	<0.001	<0.001
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	<0.05
Lead	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L		0.02	0.09	0.09	0.17	0.13	0.66	0.02
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)										
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	----	%		11.74	19.10	10.83	6.68	11.10	11.75	0.53
Total Anions	0.01	mEq/L		5.17	4.84	7.00	2.66	2.86	4.78	2.37
Total Cations	0.01	mEq/L		6.55	7.12	8.70	3.04	3.58	6.06	2.90
Turbidity										
Turbidity	0.1	NTU		0.60	1.2	0.80	8.4	0.55	1.1	13

Approved by _____

Senior Manager

MM-N12 ม 10/96

ALS Lot No. : 2576065
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		GW6808ST12	GW6808ST13	GW6808ST15	GW6808ST18	GW6808ST20	GW6808ST21	GW6808ST22
	Client sampling date / time		19-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25
Compound	LOR	Unit	**2576065-8**	**2576065-9**	**2576065-10**	**2576065-11**	**2576065-12**	**2576065-13**	**2576065-14**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	207	236	218	468	312	276	308
EA065: Total Hardness									
Total Hardness	1	mg/L	123	159	165	258	253	221	238
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	140	165	105	235	205	215	270
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	140	165	105	235	205	215	270
ED041G: Sulfate									
Sulfate	1.0	mg/L	4.9	3.2	61.6	140	1.4	30.5	19.8
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.6	5.3	14.2	39.7	33.2	6.0	4.7
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	41.1	48.3	52.8	75.4	68.8	64.1	72.3
Magnesium	0.10	mg/L	4.91	9.36	8.17	17.0	19.6	14.8	14.0
Potassium	0.10	mg/L	1.12	0.25	7.13	1.30	1.00	0.44	1.13
Sodium	0.10	mg/L	14.8	13.8	10.2	85.3	15.1	22.6	34.7
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.02	<0.001	0.001	<0.001	<0.001	0.002	0.003
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	0.002
Iron	0.05	mg/L	<0.05	0.06	<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	0.01	0.16	0.94	<0.001	0.15	0.003	0.40
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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
EK026G: 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	----	%	12.32	12.94	7.61	6.48	13.94	11.25	11.86
Total Anions	0.01	mEq/L	2.44	2.92	3.38	7.82	4.33	4.32	4.96
Total Cations	0.01	mEq/L	3.13	3.79	3.93	8.91	5.73	5.41	6.30
Turbidity									
Turbidity	0.1	NTU	0.40	1.3	25	0.50	4.9	1.6	1.3

Approved by

Senior Manager

ALS Lot No. : 2576065
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		RG68086672	RG6808690	RG6808691	RG6808692	RG6808693	RG68084017	RG68084018
	Client sampling date / time		19-Aug-25	18-Aug-25	18-Aug-25	19-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25
Compound	LOR	Unit	**2576065-15**	**2576065-16**	**2576065-17**	**2576065-18**	**2576065-19**	**2576065-20**	**2576065-21**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	258	368	318	206	296	572	364
EA065: Total Hardness									
Total Hardness	1	mg/L	139	291	264	143	298	432	274
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	130	300	295	175	215	290	255
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	130	300	295	175	215	290	255
ED041G: Sulfate									
Sulfate	1.0	mg/L	35.8	<1.0	7.4	1.7	59.7	123	46.1
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.7	1.1	3.1	1.2	1.7	46.1	8.9
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	33.4	90.1	65.8	36.5	91.0	135	88.8
Magnesium	0.10	mg/L	13.5	16.0	24.1	12.6	17.2	23.2	12.7
Potassium	0.10	mg/L	3.95	0.75	9.31	0.28	1.03	1.19	3.69
Sodium	0.10	mg/L	16.0	23.6	29.4	22.1	8.48	71.1	29.0
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.002	0.003	0.002	0.002	0.001	0.001	0.003
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	0.22	0.55	1.74	0.07	0.34	0.88	0.40
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	----	%	10.23	16.06	14.46	13.09	14.05	15.71	11.99
Total Anions	0.01	mEq/L	2.91	4.96	5.07	2.94	4.79	8.56	5.37
Total Cations	0.01	mEq/L	3.57	6.86	6.79	3.82	6.35	11.76	6.83
Turbidity									
Turbidity	0.1	NTU	30	2.7	29	2.3	23	11	15

Approved by

Senior Manager

MM-N12

ม 10/97

ALS Lot No. : 2576065
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	RG68084021	RG68084024	RG68084025	----	----	----	----
			Client sampling date / time	18-Aug-25	18-Aug-25	18-Aug-25	----	----	----	----
Compound	LOR	Unit		**2576065-22**	**2576065-23**	**2576065-24**	**----**	**----**	**----**	**----**
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		132	157	173	----	----	----	----
EA065: Total Hardness										
Total Hardness	1	mg/L		85	83	128	----	----	----	----
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		75	80	110	----	----	----	----
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		75	80	110	----	----	----	----
ED041G: Sulfate										
Sulfate	1.0	mg/L		20.8	35.2	21.1	----	----	----	----
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		3.2	8.1	6.8	----	----	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		27.6	23.0	38.4	----	----	----	----
Magnesium	0.10	mg/L		3.97	6.35	7.73	----	----	----	----
Potassium	0.10	mg/L		4.92	1.34	2.86	----	----	----	----
Sodium	0.10	mg/L		6.52	16.7	12.0	----	----	----	----
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)										
Arsenic	0.001	mg/L		0.003	<0.001	<0.001	----	----	----	----
Cobalt	0.001	mg/L		<0.001	0.002	<0.001	----	----	----	----
Copper	0.001	mg/L		0.004	<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		0.09	0.99	0.04	----	----	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)										
Mercury	0.0001	mg/L		<0.0001	<0.0001	<0.0001	----	----	----	----
EK025G: Cyanide Discrete analyzer										
Cyanide	0.002	mg/L		<0.002	<0.002	<0.002	----	----	----	----
EK025G: Cyanide Discrete analyzer										
Weak Acid Dissociable Cyanide	0.002	mg/L		<0.002	<0.002	<0.002	----	----	----	----
EN055: Ionic Balance										
Ionic Balance	----	%		0.37	0.17	12.94	----	----	----	----
Total Anions	0.01	mEq/L		1.74	2.26	2.42	----	----	----	----
Total Cations	0.01	mEq/L		2.11	2.43	3.15	----	----	----	----
Turbidity										
Turbidity	0.1	NTU		70	7.8	22	----	----	----	----

Approved by _____

Senior Manager

CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**2576071**
Contact		Date Samples Received	Aug 20, 2025 12:00 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Aug 29, 2025 09:30 AM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		Project	CHATREE
Telephone	0-5661-4500	No. of samples received	17
Facsimile	0-5661-4190	No. of samples analysed	17

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

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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.

ALS Lot No. : 2576071
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	MS6808678	MS6808679	MS68085994	MS68085997	MS68085998	MS68086081	MS68086082
			Client sampling date / time	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25	19-Aug-25
Compound	LOR	Unit		**2576071-1**	**2576071-2**	**2576071-3**	**2576071-4**	**2576071-5**	**2576071-6**	**2576071-7**
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		240	308	1940	137	175	480	1208
EA065: Total Hardness										
Total Hardness	1	mg/L		149	182	1800	63	57	361	1130
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		115	100	365	75	80	18	125
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		115	100	365	75	80	18	125
ED041G: Sulfate										
Sulfate	1.0	mg/L		51.2	87.9	1091	27.4	65.7	376	858
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		1.0	1.0	2.6	2.0	5.5	1.8	2.5
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		30.9	44.9	483	20.0	19.0	79.2	245
Magnesium	0.10	mg/L		17.5	17.0	95.7	3.05	2.38	39.7	101
Potassium	0.10	mg/L		0.40	1.01	5.52	0.67	0.31	2.90	3.09
Sodium	0.10	mg/L		15.6	16.6	53.4	23.0	47.1	15.7	53.3
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)										
Arsenic	0.001	mg/L		0.001	0.001	0.008	0.001	0.001	0.001	0.002
Cobalt	0.001	mg/L		<0.001	0.01	<0.001	0.002	0.005	0.01	0.003
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	1.94	0.08	<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		0.19	0.77	1.43	0.16	0.19	5.34	0.89
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)										
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	----	%		10.69	11.75	9.80	0.43	6.53	0.16	7.82
Total Anions	0.01	mEq/L		2.96	3.46	28.29	1.84	2.81	8.00	19.61
Total Cations	0.01	mEq/L		3.67	4.38	34.44	2.27	3.20	7.97	22.93
Turbidity										
Turbidity	0.1	NTU		34	75	26	27	95	28	1.7

Approved by _____
Senior Manager

MM-N12 ม 10/99

ALS Lot No. : 2576071
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		MS68086083	MS68086084	MS68086647	MS68086648	MS68086651	MS68086652	MS68086653
	Client sampling date / time		19-Aug-25	19-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25	18-Aug-25
Compound	LOR	Unit	**2576071-8**	**2576071-9**	**2576071-10**	**2576071-11**	**2576071-12**	**2576071-13**	**2576071-14**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	366	280	414	200	412	464	992
EA065: Total Hardness									
Total Hardness	1	mg/L	285	310	335	159	422	461	952
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	290	325	190	125	225	290	120
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	290	325	190	125	225	290	120
ED041G: Sulfate									
Sulfate	1.0	mg/L	8.7	4.8	127	46.0	190	129	715
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.6	1.0	2.2	2.3	3.1	3.7	4.2
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	83.6	78.2	109	49.1	122	136	172
Magnesium	0.10	mg/L	18.5	27.9	15.5	8.96	28.7	29.7	116
Potassium	0.10	mg/L	0.63	<0.10	3.42	1.94	4.72	2.83	14.1
Sodium	0.10	mg/L	28.4	30.9	11.9	10.0	12.5	12.8	8.18
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.003	<0.001	<0.001	<0.001	0.002	0.004	0.002
Cobalt	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.001	0.003	<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	0.20	0.87	13.5
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.02	0.08	0.23	0.26	1.69	1.29	4.86
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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
EK026G: 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	----	%	16.48	16.09	11.65	9.24	8.66	13.51	6.02
Total Anions	0.01	mEq/L	4.98	5.45	5.77	3.05	7.66	7.50	16.67
Total Cations	0.01	mEq/L	6.94	7.54	7.29	3.67	9.11	9.84	18.81
Turbidity									
Turbidity	0.1	NTU	0.90	2.1	10	360	17	23	130

Approved by _____

Senior Manager

ALS Lot No. : 2576071
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		MS68086654	MS68086665	MS68086666	----	----	----	----
	Client sampling date / time		18-Aug-25	18-Aug-25	18-Aug-25	----	----	----	----
Compound	LOR	Unit	**2576071-15**	**2576071-16**	**2576071-17**	**----**	**----**	**----**	**----**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	184	137	256	----	----	----	----
EA065: Total Hardness									
Total Hardness	1	mg/L	112	69	170	----	----	----	----
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	65	70	145	----	----	----	----
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	65	70	145	----	----	----	----
ED041G: Sulfate									
Sulfate	1.0	mg/L	68.7	22.3	24.7	----	----	----	----
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	4.7	2.0	2.1	----	----	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	11.1	20.9	54.2	----	----	----	----
Magnesium	0.10	mg/L	20.5	4.06	8.45	----	----	----	----
Potassium	0.10	mg/L	5.45	1.72	2.13	----	----	----	----
Sodium	0.10	mg/L	14.9	14.2	13.3	----	----	----	----
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.004	0.002	0.003	----	----	----	----
Cobalt	0.001	mg/L	0.02	0.002	<0.001	----	----	----	----
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	1.98	0.31	0.65	----	----	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
Mercury	0.0001	mg/L	<0.0001	<0.0001	<0.0001	----	----	----	----
EK025G: Cyanide Discrete analyzer									
Cyanide	0.002	mg/L	<0.002	<0.002	<0.002	----	----	----	----
EK025G: Cyanide Discrete analyzer									
Weak Acid Dissociable Cyanide	0.002	mg/L	<0.002	<0.002	<0.002	----	----	----	----
EN055: Ionic Balance									
Ionic Balance	----	%	7.70	0.38	15.72	----	----	----	----
Total Anions	0.01	mEq/L	2.60	1.66	2.94	----	----	----	----
Total Cations	0.01	mEq/L	3.03	2.04	4.03	----	----	----	----
Turbidity									
Turbidity	0.1	NTU	390	16	5.2	----	----	----	----

Approved by _____

Senior Manager

MM-N12

10/100

CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**2576072**
Contact		Date Samples Received	Aug 22, 2025 04:01 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Aug 30, 2025 11:20 PM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		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 from without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ALS Lot No. : 2576072
Client : Akara Resources Public Co., Ltd.
Project : CHATREE

Analytical Results

	Client sample ID		MS68085991	MS68085992	TSF6808663	TSF6808699	TSF68081991	TSF68081992	TSF68085350
	Client sampling date / time		20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25
Compound	LOR	Unit	**2576072-1**	**2576072-2**	**2576072-3**	**2576072-4**	**2576072-5**	**2576072-6**	**2576072-7**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	176	294	896	1728	784	792	980
EA065: Total Hardness									
Total Hardness	1	mg/L	139	261	768	1281	605	595	693
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	135	240	340	375	470	540	340
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	135	240	340	375	470	540	340
ED041G: Sulfate									
Sulfate	1.0	mg/L	11.8	6.7	512	1054	191	129	583
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	6.2	1.9	27.5	17.1	6.4	6.7	10.3
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	50.9	94.3	248	267	165	141	176
Magnesium	0.10	mg/L	2.78	6.20	38.3	152	51.2	58.4	68.7
Potassium	0.10	mg/L	0.78	0.69	2.50	1.26	0.87	0.52	2.84
Sodium	0.10	mg/L	12.9	11.2	30.1	74.9	39.8	88.6	74.8
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	0.002	0.003	0.002
Cobalt	0.001	mg/L	0.001	0.002	<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	0.37	0.85	1.96	0.76	0.87	0.07	1.13
Silver	0.001	mg/L	<0.001	----	----	----	----	<0.001	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	-	%	12.13	16.22	0.29	1.67	9.32	14.83	0.01
Total Anions	0.01	mEq/L	2.63	4.12	16.78	28.12	11.78	11.66	17.74
Total Cations	0.01	mEq/L	3.35	5.72	16.88	29.08	14.20	15.72	17.74
Turbidity									
Turbidity	0.1	NTU	65	50	13	16	7.5	0.70	8.1

ALS Lot No. : 2576072
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68085351	TSF68085249	TSF68086534	TSF68085332	TSF68085336	TSF68086691	TSF68085338
	Client sampling date / time		20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	19-Aug-25	19-Aug-25
Compound	LOR	Unit	**2576072-8**	**2576072-9**	**2576072-10**	**2576072-11**	**2576072-12**	**2576072-13**	**2576072-14**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	1748	430	536	190	420	392	388
EA065: Total Hardness									
Total Hardness	1	mg/L	1337	361	410	127	320	338	314
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	140	285	275	105	240	260	220
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	140	285	275	105	240	260	220
ED041G: Sulfate									
Sulfate	1.0	mg/L	1377	40.2	31.8	33.7	70.0	82.6	92.5
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	3.8	7.9	5.8	2.3	3.3	4.3	4.3
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	253	133	147	38.3	104	110	101
Magnesium	0.10	mg/L	174	7.34	11.2	7.55	14.6	15.6	15.0
Potassium	0.10	mg/L	4.10	1.08	1.33	1.10	1.10	1.65	1.77
Sodium	0.10	mg/L	40.3	13.3	14.4	12.5	21.5	24.1	23.4
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	0.003	0.003	0.002	0.007	0.02	0.008
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	<0.05
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.55	0.73	0.43	0.32	0.04	1.01	1.07
Silver	0.001	mg/L	----	----	----	----	<0.001	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	-	%	2.79	15.62	25.35	11.30	14.81	12.77	13.36
Total Anions	0.01	mEq/L	30.48	5.71	5.32	2.47	5.45	6.07	5.61
Total Cations	0.01	mEq/L	28.82	7.83	8.93	3.10	7.35	7.84	7.34
Turbidity									
Turbidity	0.1	NTU	4.5	7.3	23	12	0.60	70	85

Senior Manager

ALS Lot No. : 2576072
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68085339	TSF68086467	TSF68086468	TSF68086472	TSF68086473	TSF68086655	TSF68086656
	Client sampling date / time		19-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25
Compound	LOR	Unit	**2576072-15**	**2576072-16**	**2576072-17**	**2576072-18**	**2576072-19**	**2576072-20**	**2576072-21**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	222	988	2988	284	1184	20	152
EA065: Total Hardness									
Total Hardness	1	mg/L	155	866	2305	261	1062	11	101
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	90	340	75	235	12	10	100
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	90	340	75	235	12	10	100
ED041G: Sulfate									
Sulfate	1.0	mg/L	83.2	513	2022	30.8	1094	1.8	22.1
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	3.4	7.2	20.4	2.0	11.4	2.1	2.9
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	49.7	247	428	84.2	215	3.42	31.1
Magnesium	0.10	mg/L	8.55	40.8	243	12.3	111	0.60	5.58
Potassium	0.10	mg/L	3.94	2.62	14.8	1.24	1.49	0.44	2.09
Sodium	0.10	mg/L	16.2	29.7	118	17.7	51.5	4.00	9.94
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	0.001	<0.001	0.004	<0.001	<0.001	0.005
Cobalt	0.001	mg/L	0.003	0.003	0.03	0.001	<0.001	<0.001	0.002
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	0.41	<0.05	0.07	<0.05	0.11
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.46	2.23	7.46	0.43	1.60	0.02	0.59
Silver	0.001	mg/L	----	----	----	----	----	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	-	%	9.96	2.43	4.26	14.01	1.51	0.15	0.32
Total Anions	0.01	mEq/L	3.27	16.23	43.03	4.54	22.83	0.26	2.17
Total Cations	0.01	mEq/L	3.99	17.04	46.87	6.01	22.16	0.41	2.50
Turbidity									
Turbidity	0.1	NTU	10	4.9	1.8	12	2.7	10	23

Senior Manager

ALS Lot No. : 2576072
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68086657	TSF68086658	TSF68086659	TSF68086660	TSF68086661	TSF68086662	TSF68086663
	Client sampling date / time		20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25	20-Aug-25
Compound	LOR	Unit	**2576072-22**	**2576072-23**	**2576072-24**	**2576072-25**	**2576072-26**	**2576072-27**	**2576072-28**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	310	852	340	334	316	93	198
EA065: Total Hardness									
Total Hardness	1	mg/L	246	637	317	256	254	61	139
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	180	10	200	180	200	80	125
Carbonate Alkalinity	1	mg/L	20	<1	20	40	20	<1	20
Hydroxide Alkalinity	1	mg/L	<1	<1	<1	<1	<1	<1	<1
Phenolphthalein Alkalinity	1	mg/L	10	<1	10	20	10	<1	10
Total Alkalinity	1	mg/L	200	10	220	220	220	80	145
ED041G: Sulfate									
Sulfate	1.0	mg/L	6.5	730	64.6	41.1	3.6	1.8	2.1
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.6	1.5	2.5	2.0	1.6	1.4	1.4
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	86.1	156	103	87.4	88.0	18.4	43.6
Magnesium	0.10	mg/L	7.65	49.7	14.3	9.26	8.39	3.80	7.44
Potassium	0.10	mg/L	2.64	7.68	1.27	1.09	0.89	1.30	2.14
Sodium	0.10	mg/L	14.3	25.4	35.7	18.4	22.8	10.3	13.9
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.001	<0.001	0.007	0.003	0.01	<0.001	<0.001
Cobalt	0.001	mg/L	<0.001	0.05	<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	0.35	3.87	0.13	0.40	0.25	0.40	0.31
Silver	0.001	mg/L	----	----	----	----	----	----	<0.001
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	-	%	28.47	6.75	25.86	21.49	28.45	0.33	23.57
Total Anions	0.01	mEq/L	3.13	15.09	4.67	3.85	3.40	1.39	2.13
Total Cations	0.01	mEq/L	5.62	13.18	7.92	5.95	6.10	1.71	3.45
Turbidity									
Turbidity	0.1	NTU	8.1	7.7	2.7	6.5	4.8	6.5	17

Senior Manager

ALS Lot No. : 2576072
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68086664	6808DC2	----	----	----	----	----
	Client sampling date / time		20-Aug-25	21-Aug-25	----	----	----	----	----
Compound	LOR	Unit	**2576072-29**	**2576072-31**	**----**	**----**	**----**	**----**	**----**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	220	----	----	----	----	----	----
EA065: Total Hardness									
Total Hardness	1	mg/L	141	----	----	----	----	----	----
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	125	----	----	----	----	----	----
Carbonate Alkalinity	1	mg/L	20	----	----	----	----	----	----
Hydroxide Alkalinity	1	mg/L	<1	----	----	----	----	----	----
Phenolphthalein Alkalinity	1	mg/L	10	----	----	----	----	----	----
Total Alkalinity	1	mg/L	145	----	----	----	----	----	----
ED041G: Sulfate									
Sulfate	1.0	mg/L	2.6	----	----	----	----	----	----
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.4	----	----	----	----	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	42.7	----	----	----	----	----	----
Magnesium	0.10	mg/L	8.64	----	----	----	----	----	----
Potassium	0.10	mg/L	2.34	----	----	----	----	----	----
Sodium	0.10	mg/L	14.5	----	----	----	----	----	----
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	----	----	----	----	----	----
Cobalt	0.001	mg/L	0.003	----	----	----	----	----	----
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	0.75	----	----	----	----	----	----
Silver	0.001	mg/L	----	----	----	----	----	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
Mercury	0.0001	mg/L	<0.0001	----	----	----	----	----	----
EK025G: Cyanide Discrete analyzer									
Cyanide	0.002	mg/L	<0.002	1.296	----	----	----	----	----
EK025G-1: Cyanide WAD Discrete analyzer									
Weak Acid Dissociable Cyanide	0.002	mg/L	<0.002	1.260	----	----	----	----	----
EN055: Ionic Balance									
Ionic Balance	-	%	24.49	----	----	----	----	----	----
Total Anions	0.01	mEq/L	2.14	----	----	----	----	----	----
Total Cations	0.01	mEq/L	3.53	----	----	----	----	----	----
Turbidity									
Turbidity	0.1	NTU	24	----	----	----	----	----	----

Senior Manager

CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**25101839**
Contact		Date Samples Received	Nov 12, 2025 01:00 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Nov 22, 2025 12:18 AM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		Project	CHATREE
Telephone	0-5661-4500	No. of samples received	24
Facsimile	0-5661-4190	No. of samples analysed	24

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.

ALS Lot No. : 25101839
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	GW6811ST4	GW6811ST7	GW6811ST8	GW6811ST9	GW6811ST10	GW6811ST11	GW6811ST12
			Client sampling date / time	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25
Compound	LOR	Unit		**25101839-1**	**25101839-2**	**25101839-3**	**25101839-4**	**25101839-5**	**25101839-6**	**25101839-7**
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		360	388	164	198	336	178	280
EA065: Total Hardness										
Total Hardness	1	mg/L		274	275	127	133	202	113	209
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		263	324	96	121	233	116	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		263	324	96	121	233	116	192
ED041G: Sulfate										
Sulfate	1.0	mg/L		41.9	34.2	42.8	28.8	40.4	21.7	20.2
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		10.4	14.0	13.3	3.5	10.5	<1.0	<1.0
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		79.9	70.8	41.6	34.1	55.9	30.9	75.4
Magnesium	0.10	mg/L		18.1	23.9	5.68	11.7	15.1	8.68	4.96
Potassium	0.10	mg/L		0.79	0.56	6.17	0.46	0.59	1.64	1.71
Sodium	0.10	mg/L		38.7	78.9	14.9	18.7	57.1	16.3	12.5
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)										
Arsenic	0.001	mg/L		0.004	0.004	0.003	<0.001	<0.001	<0.001	0.006
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	0.002	0.001	0.002	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		0.02	0.08	0.14	0.07	0.48	0.43	0.03
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)										
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	----	%		13.61	16.56	8.53	13.11	13.92	11.87	14.18
Total Anions	0.01	mEq/L		5.46	6.40	2.82	2.68	4.94	2.37	3.58
Total Cations	0.01	mEq/L		7.18	8.94	3.35	3.49	6.53	3.01	4.76
Turbidity										
Turbidity	0.1	NTU		1.6	0.35	2.5	0.35	1.1	19	0.30

MM-N12

Senior Manager

น.10/104

ALS Lot No. : 25101839
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		GW6811ST13	GW6811ST15	GW6811ST18	GW6811ST21	GW6811ST22	GW6811ST23	RG68116672
	Client sampling date / time		10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25
Compound	LOR	Unit	**25101839-8**	**25101839-9**	**25101839-10**	**25101839-11**	**25101839-12**	**25101839-13**	**25101839-14**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	264	114	436	276	312	302	250
EA065: Total Hardness									
Total Hardness	1	mg/L	179	189	274	233	245	210	142
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	177	101	228	207	263	202	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	177	101	228	207	263	202	126
ED041G: Sulfate									
Sulfate	1.0	mg/L	6.3	74.2	141	26.7	20.3	18.3	39.1
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	5.3	10.6	31.9	4.4	3.1	<1.0	<1.0
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	53.2	58.8	81.0	68.1	74.2	71.4	34.4
Magnesium	0.10	mg/L	11.3	10.2	17.4	15.2	14.4	7.81	13.7
Potassium	0.10	mg/L	0.69	7.84	1.25	0.37	1.12	0.98	3.53
Sodium	0.10	mg/L	17.4	10.8	79.7	23.4	35.4	19.9	16.3
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	0.001	<0.001	0.002	0.003	0.003	<0.001
Cobalt	0.001	mg/L	<0.001	0.005	<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	0.09	<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	0.26	1.34	0.001	0.01	0.42	0.36	0.03
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	----	%	15.62	12.23	8.88	16.55	14.58	16.01	11.87
Total Anions	0.01	mEq/L	3.18	3.47	7.51	4.07	4.81	3.69	2.87
Total Cations	0.01	mEq/L	4.36	4.44	8.97	5.68	6.46	5.10	3.65
Turbidity									
Turbidity	0.1	NTU	2.5	50	0.35	1.4	1.8	13	14

Senior Manager

ALS Lot No. : 25101839
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		RG6811690	RG6811691	RG6811692	RG6811693	RG68114017	RG68114018	RG68114020
	Client sampling date / time		11-Nov-25	11-Nov-25	11-Nov-25	11-Nov-25	10-Nov-25	10-Nov-25	10-Nov-25
Compound	LOR	Unit	**25101839-15**	**25101839-16**	**25101839-17**	**25101839-18**	**25101839-19**	**25101839-20**	**25101839-21**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	334	342	246	248	620	364	376
EA065: Total Hardness									
Total Hardness	1	mg/L	293	271	161	245	440	271	171
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	314	299	192	197	288	248	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	314	299	192	197	288	248	253
ED041G: Sulfate									
Sulfate	1.0	mg/L	1.1	6.5	6.0	34.8	163	48.5	427
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	<1.0	2.3	<1.0	<1.0	46.2	6.5	13.2
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	90.7	66.9	44.1	77.5	137	87.2	34.6
Magnesium	0.10	mg/L	16.5	25.8	12.8	13.1	23.1	12.8	20.6
Potassium	0.10	mg/L	0.50	8.24	0.23	0.30	1.37	3.76	1.36
Sodium	0.10	mg/L	24.1	29.9	21.0	5.83	67.6	30.2	96.1
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.003	<0.001	0.002	<0.001	0.002	0.003	<0.001
Cobalt	0.001	mg/L	<0.001	0.005	<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	0.10	1.63	0.03	0.02	0.89	0.34	<0.001
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	----	%	14.68	15.59	12.10	13.76	11.18	13.11	26.82
Total Anions	0.01	mEq/L	5.16	5.09	3.27	3.95	9.36	5.24	13.23
Total Cations	0.01	mEq/L	6.94	6.97	4.18	5.21	11.72	6.82	7.63
Turbidity									
Turbidity	0.1	NTU	2.4	20	12	27	5.4	12	15

Senior Manager

ALS Lot No. : 25101839
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	RG68114021	RG68114024	RG68114025	----	----	----	----
			Client sampling date / time	10-Nov-25	11-Nov-25	11-Nov-25	----	----	----	----
Compound	LOR	Unit		**25101839-22**	**25101839-23**	**25101839-24**	----	----	----	----
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		188	133	156	----	----	----	----
EA065: Total Hardness										
Total Hardness	1	mg/L		133	93	153	----	----	----	----
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		126	91	142	----	----	----	----
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		126	91	142	----	----	----	----
ED041G: Sulfate										
Sulfate	1.0	mg/L		12.6	17.4	5.6	----	----	----	----
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		3.2	3.3	3.4	----	----	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		43.3	26.6	49.3	----	----	----	----
Magnesium	0.10	mg/L		6.16	6.44	7.54	----	----	----	----
Potassium	0.10	mg/L		6.97	2.15	2.37	----	----	----	----
Sodium	0.10	mg/L		8.91	10.2	9.00	----	----	----	----
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)										
Arsenic	0.001	mg/L		0.002	0.001	<0.001	----	----	----	----
Cobalt	0.001	mg/L		<0.001	<0.001	<0.001	----	----	----	----
Copper	0.001	mg/L		0.002	<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		0.32	0.49	0.02	----	----	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)										
Mercury	0.0001	mg/L		<0.0001	<0.0001	<0.0001	----	----	----	----
EK025G: Cyanide Discrete analyzer										
Cyanide	0.002	mg/L		<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	----	----	----	----
EN055: Ionic Balance										
Ionic Balance	----	%		14.41	0.42	16.49	----	----	----	----
Total Anions	0.01	mEq/L		2.42	1.94	2.53	----	----	----	----
Total Cations	0.01	mEq/L		3.24	2.36	3.53	----	----	----	----
Turbidity										
Turbidity	0.1	NTU		37	17	9.6	----	----	----	----

Senior Manager

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-1
Sampled Date	Nov 13, 2025 2:31 PM
Sample Description	Ground Water
Location	MS6811677
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.7	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	1.53	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	1664	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	86	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	35.41	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	34.35	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1865	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	1586	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	110	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Scientist (3)

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9.1.10/107

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-1
Sampled Date	Nov 13, 2025 2:31 PM
Sample Description	Ground Water
Location	MS6811677
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.004	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	455	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	13.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	109	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	5.92	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	15.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	52.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	86	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-2
Sampled Date	Nov 11, 2025 3:44 PM
Sample Description	Ground Water
Location	MS6811678
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	28.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	16.6	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.04	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	0.41	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	16.5	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	116	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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9.10/108

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-1
Sampled Date	Nov 13, 2025 2:31 PM
Sample Description	Ground Water
Location	MS6811677
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-2
Sampled Date	Nov 11, 2025 3:44 PM
Sample Description	Ground Water
Location	MS6811678
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

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9.1.10/109

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-2
Sampled Date	Nov 11, 2025 3:44 PM
Sample Description	Ground Water
Location	MS6811678
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	<1.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	10.85	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	44.4	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	116	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	2.83	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	3.52	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	280	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	140	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	12	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-3
Sampled Date	Nov 11, 2025 3:46 PM
Sample Description	Ground Water
Location	MS6811679
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	<1.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	8.77	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	88.5	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	106	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	3.57	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	4.26	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	355	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	168	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	85	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.10/110

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-3
Sampled Date	Nov 11, 2025 3:46 PM
Sample Description	Ground Water
Location	MS6811679
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	40.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	0.009	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	15.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.65	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	1.45	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	19.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	106	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-4
Sampled Date	Nov 13, 2025 2:40 PM
Sample Description	Ground Water
Location	MS68115993
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	660	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	0.06	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	213	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	1.89	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	77.4	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	213	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

Approved by

Scientist (3)

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9.10/111

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-3
Sampled Date	Nov 11, 2025 3:46 PM
Sample Description	Ground Water
Location	MS6811679
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

Approved by

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-4
Sampled Date	Nov 13, 2025 2:40 PM
Sample Description	Ground Water
Location	MS68115993
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

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Scientist (3)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : C

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-4
Sampled Date	Nov 13, 2025 2:40 PM
Sample Description	Ground Water
Location	MS68115993
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	4.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	0.53	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	2495	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	213	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	54.46	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	53.89	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	2805	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	2530	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	2.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Approved by

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-5
Sampled Date	Nov 13, 2025 2:42 PM
Sample Description	Ground Water
Location	MS68115994
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	3.25	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	1535	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	349	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	37.09	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	34.75	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1827	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	1625	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	7.4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.10/113

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-5
Sampled Date	Nov 13, 2025 2:42 PM
Sample Description	Ground Water
Location	MS68115994
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.004	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	480	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	103	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	1.06	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	4.63	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	50.2	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	349	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-6
Sampled Date	Nov 12, 2025 8:08 AM
Sample Description	Ground Water
Location	MS68115997
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	56.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	12.4	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	1.82	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	34.2	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	126	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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9.10/114

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-5
Sampled Date	Nov 13, 2025 2:42 PM
Sample Description	Ground Water
Location	MS68115994
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

Approved by

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-6
Sampled Date	Nov 12, 2025 8:08 AM
Sample Description	Ground Water
Location	MS68115997
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

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9.1.10/115

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-6
Sampled Date	Nov 12, 2025 8:08 AM
Sample Description	Ground Water
Location	MS68115997
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	1.2	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	11.50	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	106	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	126	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	4.28	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	5.39	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	380	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	193	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-7
Sampled Date	Nov 12, 2025 8:06 AM
Sample Description	Ground Water
Location	MS68115998
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	3.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	13.00	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	28.4	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	238	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	4.58	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	5.94	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	338	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	221	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	80	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.1.10/116

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-7
Sampled Date	Nov 12, 2025 8:06 AM
Sample Description	Ground Water
Location	MS68115998
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	81.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	4.38	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.04	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	0.39	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	34.8	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	238	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Scientist (3)

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-8
Sampled Date	Nov 12, 2025 8:49 AM
Sample Description	Ground Water
Location	MS68116081
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	64.2	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	38.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	5.13	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	2.15	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	19.4	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	96	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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9.10/117

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-7
Sampled Date	Nov 12, 2025 8:06 AM
Sample Description	Ground Water
Location	MS68115998
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-8
Sampled Date	Nov 12, 2025 8:49 AM
Sample Description	Ground Water
Location	MS68116081
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-8
Sampled Date	Nov 12, 2025 8:49 AM
Sample Description	Ground Water
Location	MS68116081
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	1.7	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	2.73	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	259	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	96	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	6.90	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	7.29	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	476	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	320	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	37	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-9
Sampled Date	Nov 12, 2025 8:47 AM
Sample Description	Ground Water
Location	MS68116082
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	1.49	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	1086	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	147	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	24.62	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	25.36	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1568	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	1127	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.1.10/119

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-9
Sampled Date	Nov 12, 2025 8:47 AM
Sample Description	Ground Water
Location	MS68116082
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	277	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	96.0	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.13	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	2.81	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	82.2	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	147	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-10
Sampled Date	Nov 12, 2025 9:07 AM
Sample Description	Ground Water
Location	MS68116083
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	80.1	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	14.5	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.07	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	1.14	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	25.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	278	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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9.10/120

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : C

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-9
Sampled Date	Nov 12, 2025 8:47 AM
Sample Description	Ground Water
Location	MS68116082
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-10
Sampled Date	Nov 12, 2025 9:07 AM
Sample Description	Ground Water
Location	MS68116083
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

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9.1.10/121

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-10
Sampled Date	Nov 12, 2025 9:07 AM
Sample Description	Ground Water
Location	MS68116083
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	1.8	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	14.57	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	5.8	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	278	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	4.73	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	6.34	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	380	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	260	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.55	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-11
Sampled Date	Nov 12, 2025 9:05 AM
Sample Description	Ground Water
Location	MS68116084
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.4	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	10.27	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	28.5	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	309	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	5.71	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	7.01	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	384	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	289	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	1.9	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

9.1.10/122

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-11
Sampled Date	Nov 12, 2025 9:05 AM
Sample Description	Ground Water
Location	MS68116084
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	70.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	27.4	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.56	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	0.43	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	28.0	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	309	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-12
Sampled Date	Nov 10, 2025 2:44 PM
Sample Description	Ground Water
Location	MS68116647
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	102	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	15.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	3.09	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	11.5	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	192	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

Approved by

Scientist (3)

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9.10/123

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-11
Sampled Date	Nov 12, 2025 9:05 AM
Sample Description	Ground Water
Location	MS68116084
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-12
Sampled Date	Nov 10, 2025 2:44 PM
Sample Description	Ground Water
Location	MS68116647
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

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9.1.10/124

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-12
Sampled Date	Nov 10, 2025 2:44 PM
Sample Description	Ground Water
Location	MS68116647
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.7	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	11.47	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	111	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	192	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	5.49	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	6.91	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	456	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	317	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-13
Sampled Date	Nov 10, 2025 2:42 PM
Sample Description	Ground Water
Location	MS68116648
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	7.30	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	55.0	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	132	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	3.34	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	3.86	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	275	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	167	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.1.10/125

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-13
Sampled Date	Nov 10, 2025 2:42 PM
Sample Description	Ground Water
Location	MS68116648
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	51.1	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	9.69	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	2.12	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	10.6	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	132	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-14
Sampled Date	Nov 11, 2025 1:27 PM
Sample Description	Ground Water
Location	MS68116651
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	104	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	25.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.84	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	4.42	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	11.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	207	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

Approved by

Scientist (3)

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9.10/126

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-13
Sampled Date	Nov 10, 2025 2:42 PM
Sample Description	Ground Water
Location	MS68116648
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

Approved by

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-14
Sampled Date	Nov 11, 2025 1:27 PM
Sample Description	Ground Water
Location	MS68116651
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

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9.1.10/127

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-14
Sampled Date	Nov 11, 2025 1:27 PM
Sample Description	Ground Water
Location	MS68116651
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	3.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	11.99	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	133	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	207	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	6.22	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	7.91	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	480	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	364	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	8.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-15
Sampled Date	Nov 11, 2025 1:25 PM
Sample Description	Ground Water
Location	MS68116652
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	5.3	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	12.86	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	103	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	258	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	6.48	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	8.39	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	420	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	385	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	5.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.10/128

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-15
Sampled Date	Nov 11, 2025 1:25 PM
Sample Description	Ground Water
Location	MS68116652
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	113	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	24.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.43	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	3.62	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	13.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	258	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-16
Sampled Date	Nov 11, 2025 1:31 PM
Sample Description	Ground Water
Location	MS68116653
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	148	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	0.006	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	5.00	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	99.4	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	5.08	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	12.2	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	9.08	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	91	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-15
Sampled Date	Nov 11, 2025 1:25 PM
Sample Description	Ground Water
Location	MS68116652
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

Approved by

Scientist (3)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-16
Sampled Date	Nov 11, 2025 1:31 PM
Sample Description	Ground Water
Location	MS68116653
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-16
Sampled Date	Nov 11, 2025 1:31 PM
Sample Description	Ground Water
Location	MS68116653
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	3.5	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	5.26	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	640	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	91	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	14.63	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	16.26	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	976	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	779	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	220	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-17
Sampled Date	Nov 11, 2025 1:29 PM
Sample Description	Ground Water
Location	MS68116654
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	5.2	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	10.86	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	104	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	51	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	3.10	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	3.86	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	335	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	152	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	110	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.10/131

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-17
Sampled Date	Nov 11, 2025 1:29 PM
Sample Description	Ground Water
Location	MS68116654
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.004	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	15.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	27.6	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	2.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	5.06	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	15.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	51	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-18
Sampled Date	Nov 10, 2025 2:35 PM
Sample Description	Ground Water
Location	MS68116665
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	20.2	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	4.04	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.22	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	1.57	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	16.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	76	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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9.10/132

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-17
Sampled Date	Nov 11, 2025 1:29 PM
Sample Description	Ground Water
Location	MS68116654
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-18
Sampled Date	Nov 10, 2025 2:35 PM
Sample Description	Ground Water
Location	MS68116665
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-18
Sampled Date	Nov 10, 2025 2:35 PM
Sample Description	Ground Water
Location	MS68116665
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	5.3	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	0.18	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	25.5	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	76	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	1.91	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	2.09	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	152	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	67	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	3.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-19
Sampled Date	Nov 10, 2025 2:37 PM
Sample Description	Ground Water
Location	MS68116666
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Chloride	mg/L	-	1.0	2.7	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	Bangkok
Cyanide as CN	mg/L	-	0.002	<0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Ionic Balance	%	-	-	11.56	Calculated	Bangkok
Phenolphthalein Alkalinity as CaCO3	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	-	1.0	27.0	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	142	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	mEq/L	-	0.01	2.95	Calculated	Bangkok
Total Cations	mEq/L	-	0.01	3.72	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	278	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	156	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	0.1	0.80	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	Bangkok

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9.1.10/134

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received : Nov 14, 2025
Date Reported : Nov 22, 2025
Report Number : 3442962-1

Sample Number	25101841-19
Sampled Date	Nov 10, 2025 2:37 PM
Sample Description	Ground Water
Location	MS68116666
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic Dissolved	mg/L	-	0.001	0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Calcium Dissolved	mg/L	-	0.10	49.6	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Copper Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Iron Dissolved	mg/L	-	0.05	<0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Lead Dissolved	mg/L	-	0.001	<0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Magnesium Dissolved	mg/L	-	0.10	7.88	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	0.001	0.40	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	2.22	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	12.3	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing						
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	142	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location : CHATREE

Lot ID: 25101841
Date Received :Nov 14, 2025
Date Reported :Nov 22, 2025
Report Number :3442962-1

Sample Number	25101841-19
Sampled Date	Nov 10, 2025 2:37 PM
Sample Description	Ground Water
Location	MS68116666
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	-	0.002	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

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น.10/135

CERTIFICATE OF ANALYSIS

Client	**Akara Resources Public Co., Ltd.**	**ALS Lot No.**	**25101845**
Contact	Yaowanud Chandung	Date Samples Received	Nov 15, 2025 01:00 PM
Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Issue Date	Nov 25, 2025 10:11 AM
Email	yaowanud@akararesources.com	Quote number	Q2448061(R2)
		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 from without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

ALS Lot No. : 25101845
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

			Client sample ID	MS68115991	MS68115992	TSF6811663	TSF6811699	TSF68111991	TSF68111992	TSF68115350
			Client sampling date / time	12-Nov-25	12-Nov-25	13-Nov-25	13-Nov-25	12-Nov-25	12-Nov-25	13-Nov-25
Compound	LOR	Unit		**25101845-1**	**25101845-2**	**25101845-3**	**25101845-4**	**25101845-5**	**25101845-6**	**25101845-7**
EA015: Total Dissolved Solids										
Total Dissolved solids	5	mg/L		163	310	976	1788	720	712	856
EA065: Total Hardness										
Total Hardness	1	mg/L		109	268	752	1401	617	557	659
ED037P: Alkalinity										
Bicarbonate Alkalinity	1	mg/L		106	273	329	369	481	506	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		106	273	329	369	481	506	334
ED041G: Sulfate										
Sulfate	1.0	mg/L		17.8	10.3	510	1216	123	125	451
ED045G: Chloride Discrete analyzer										
Chloride	1.0	mg/L		5.2	1.4	27.8	16.4	6.0	5.9	9.9
ED093F: Dissolved Major Cations (GW & SW Dissolved)										
Calcium	0.10	mg/L		38.0	95.4	241	285	165	137	177
Magnesium	0.10	mg/L		3.59	7.40	38.9	168	50.7	53.2	54.3
Potassium	0.10	mg/L		0.55	0.90	2.35	1.05	0.92	0.55	3.55
Sodium	0.10	mg/L		8.60	14.0	30.9	80.0	56.0	85.6	67.4
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)										
Arsenic	0.001	mg/L		<0.001	<0.001	<0.001	<0.001	0.004	0.005	0.001
Cobalt	0.001	mg/L		<0.001	0.002	<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		0.36	0.80	1.22	0.52	0.03	0.02	0.84
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)										
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	----	%		0.33	11.89	0.09	0.34	16.96	15.24	4.37
Total Anions	0.01	mEq/L		2.25	4.73	16.58	31.32	10.56	11.00	14.94
Total Cations	0.01	mEq/L		2.58	6.00	16.61	31.53	14.88	14.96	16.30
Turbidity										
Turbidity	0.1	NTU		30	31	5.6	29	1.7	1.1	1.8

MM-N12

Senior Manager

น.10/136

ALS Lot No. : 25101845
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68115351	TSF68115249	TSF68116534	TSF68115332	TSF68115336	TSF68116691	TSF68115338
	Client sampling date / time		13-Nov-25	14-Nov-25	14-Nov-25	14-Nov-25	14-Nov-25	12-Nov-25	12-Nov-25
Compound	LOR	Unit	**25101845-8**	**25101845-9**	**25101845-10**	**25101845-11**	**25101845-12**	**25101845-13**	**25101845-14**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	1960	432	438	150	386	460	444
EA065: Total Hardness									
Total Hardness	1	mg/L	1369	371	348	119	272	309	310
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	157	293	288	96	253	202	207
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	157	293	288	96	253	202	207
ED041G: Sulfate									
Sulfate	1.0	mg/L	1491	43.9	29.1	33.6	25.6	103	103
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	4.4	7.6	5.8	2.0	2.0	4.3	4.2
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	255	138	128	36.8	91.3	101	102
Magnesium	0.10	mg/L	178	6.99	6.77	6.89	11.1	14.0	14.1
Potassium	0.10	mg/L	3.38	1.03	0.93	0.88	0.63	1.56	1.59
Sodium	0.10	mg/L	45.3	13.2	13.0	11.3	17.6	22.2	22.3
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	0.003	0.003	0.001	0.006	0.05	0.06
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	<0.05
Lead	0.001	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Manganese	0.001	mg/L	0.27	0.64	0.38	0.26	0.02	1.19	1.20
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	----	%	5.87	15.20	15.90	0.60	13.89	13.09	12.68
Total Anions	0.01	mEq/L	33.10	5.92	5.48	2.32	4.72	5.53	5.61
Total Cations	0.01	mEq/L	29.44	8.04	7.56	2.92	6.25	7.20	7.24
Turbidity									
Turbidity	0.1	NTU	6.7	4.2	5.5	8.1	0.80	40	13

Senior Manager

ALS Lot No. : 25101845
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68115339	TSF68116467	TSF68116468	TSF68116472	TSF68116473	TSF68116655	TSF68116656
	Client sampling date / time		12-Nov-25	13-Nov-25	13-Nov-25	14-Nov-25	14-Nov-25	13-Nov-25	13-Nov-25
Compound	LOR	Unit	**25101845-15**	**25101845-16**	**25101845-17**	**25101845-18**	**25101845-19**	**25101845-20**	**25101845-21**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	246	900	2804	290	1100	123	27
EA065: Total Hardness									
Total Hardness	1	mg/L	128	715	2046	248	912	71	7
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	81	319	96	233	20	76	20
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	81	319	96	233	20	76	20
ED041G: Sulfate									
Sulfate	1.0	mg/L	74.9	529	1758	260	972	11.5	2.2
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	3.6	5.4	76.5	1.8	11.2	1.6	2.4
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	39.0	229	402	82.5	179	21.5	2.09
Magnesium	0.10	mg/L	7.75	37.4	205	10.7	128	4.46	0.39
Potassium	0.10	mg/L	4.02	2.34	14.1	0.89	1.62	1.64	0.29
Sodium	0.10	mg/L	29.1	28.6	137	15.5	50.3	6.95	4.06
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	<0.001	<0.001	0.001	<0.001	0.003	<0.001
Cobalt	0.001	mg/L	0.001	<0.001	0.03	0.001	0.005	0.003	<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	0.41	0.15	13.0	0.43	3.78	0.43	0.01
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	----	%	14.44	1.15	4.40	23.33	2.94	0.26	0.12
Total Anions	0.01	mEq/L	2.96	16.16	39.57	9.16	20.47	1.52	0.44
Total Cations	0.01	mEq/L	3.95	15.79	43.22	5.69	21.71	1.78	0.32
Turbidity									
Turbidity	0.1	NTU	1.5	4.9	5.6	33	1.6	26	0.80

Senior Manager

ALS Lot No. : 25101845
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68116657	TSF68116658	TSF68116659	TSF68116660	TSF68116661	TSF68116662	TSF68116663
	Client sampling date / time		14-Nov-25	14-Nov-25	12-Nov-25	12-Nov-25	14-Nov-25	14-Nov-25	14-Nov-25
Compound	LOR	Unit	**25101845-22**	**25101845-23**	**25101845-24**	**25101845-25**	**25101845-26**	**25101845-27**	**25101845-28**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	334	788	428	384	310	172	184
EA065: Total Hardness									
Total Hardness	1	mg/L	242	601	305	266	252	154	126
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	233	25	288	228	263	142	142
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	233	25	288	228	263	142	142
ED041G: Sulfate									
Sulfate	1.0	mg/L	8.4	679	68.0	44.5	5.0	4.3	4.2
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.9	1.8	2.8	6.1	3.4	2.5	1.8
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	85.7	165	101	93.2	88.8	58.7	39.8
Magnesium	0.10	mg/L	7.02	46.4	13.2	8.20	7.68	1.99	6.72
Potassium	0.10	mg/L	2.31	7.41	0.94	0.98	0.62	1.50	1.95
Sodium	0.10	mg/L	13.7	40.1	34.5	16.8	17.5	5.98	13.2
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	<0.001	<0.001	0.006	0.002	0.007	<0.001	0.001
Cobalt	0.001	mg/L	<0.001	0.04	<0.001	<0.001	<0.001	0.003	0.002
Copper	0.001	mg/L	<0.001	0.01	<0.001	<0.001	<0.001	<0.001	0.15
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	0.10	3.45	0.08	0.10	0.30	1.27	0.38
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
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	----	%	15.39	1.09	10.47	11.69	12.84	15.48	12.60
Total Anions	0.01	mEq/L	4.04	14.31	6.19	4.81	4.51	2.48	2.46
Total Cations	0.01	mEq/L	5.51	14.00	7.64	6.08	5.84	3.39	3.17
Turbidity									
Turbidity	0.1	NTU	2.8	0.55	1.4	1.7	8.4	2.1	16

Senior Manager

ALS Lot No. : 25101845
Client : Akara Resources Public Co., Ltd.
Project :

Analytical Results

	Client sample ID		TSF68116664	6811DC2	----	----	----	----	----
	Client sampling date / time		14-Nov-25	14-Nov-25	----	----	----	----	----
Compound	LOR	Unit	**25101845-29**	**25101845-31**	**----**	**----**	**----**	**----**	**----**
EA015: Total Dissolved Solids									
Total Dissolved solids	5	mg/L	230	----	----	----	----	----	----
EA065: Total Hardness									
Total Hardness	1	mg/L	135	----	----	----	----	----	----
ED037P: Alkalinity									
Bicarbonate Alkalinity	1	mg/L	142	----	----	----	----	----	----
Carbonate Alkalinity	1	mg/L	<1	----	----	----	----	----	----
Hydroxide Alkalinity	1	mg/L	<1	----	----	----	----	----	----
Phenolphthalein Alkalinity	1	mg/L	<1	----	----	----	----	----	----
Total Alkalinity	1	mg/L	142	----	----	----	----	----	----
ED041G: Sulfate									
Sulfate	1.0	mg/L	5.4	----	----	----	----	----	----
ED045G: Chloride Discrete analyzer									
Chloride	1.0	mg/L	1.9	----	----	----	----	----	----
ED093F: Dissolved Major Cations (GW & SW Dissolved)									
Calcium	0.10	mg/L	41.1	----	----	----	----	----	----
Magnesium	0.10	mg/L	8.19	----	----	----	----	----	----
Potassium	0.10	mg/L	2.07	----	----	----	----	----	----
Sodium	0.10	mg/L	13.8	----	----	----	----	----	----
EG020F: Dissolved Metals by ICP-MS (GW-Dissolved)									
Arsenic	0.001	mg/L	0.001	----	----	----	----	----	----
Cobalt	0.001	mg/L	0.003	----	----	----	----	----	----
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	0.44	----	----	----	----	----	----
EG035F: Dissolved Mercury by CVAFS (GW-Dissolved)									
Mercury	0.0001	mg/L	<0.0001	----	----	----	----	----	----
EK025G: Cyanide Discrete analyzer									
Cyanide	0.002	mg/L	<0.002	<0.002	----	----	----	----	----
EK025G-1: Cyanide WAD Discrete analyzer									
Weak Acid Dissociable Cyanide	0.002	mg/L	<0.002	<0.002	----	----	----	----	----
EN055: Ionic Balance									
Ionic Balance	----	%	15.22	----	----	----	----	----	----
Total Anions	0.01	mEq/L	2.49	----	----	----	----	----	----
Total Cations	0.01	mEq/L	3.38	----	----	----	----	----	----
Turbidity									
Turbidity	0.1	NTU	27	----	----	----	----	----	----

Senior Manager

MM-N12 น.10/138

Analysis / Test Report

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2564785
Date Received : Jul 04, 2025
Date Reported : Jul 14, 2025
Report Number : 3353891-1

Sample Number	2564785-1
Sampled Date	Jul 03, 2025 4:00 PM
Sample Description	Waste water
Location	6807DC2
Date Analysis Commenced	Jul 07, 2025
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Cyanide as CN	mg/L	0.002	0.005	0.406	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Weak Acid Dissociable Cyanide *	mg/L	0.002	0.005	0.406	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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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Section Head

Analysis / Test Report

TESTING
No.0009

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

Lot ID: 2586493
Date Received : Sep 12, 2025
Date Reported : Sep 20, 2025
Report Number : 3405938-1

Sample Number	2586493-1
Sampled Date	Sep 11, 2025 8:00 AM
Sample Description	Waste water
Location	6809DC2
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Cyanide as CN	mg/L	0.002	0.005	0.013	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Weak Acid Dissociable Cyanide *	mg/L	0.002	0.005	0.013	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

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Scientist (3)

Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2595098
Date Received : Oct 10, 2025
Date Reported : Oct 20, 2025
Report Number : 3426373-1

Sample Number	2595098-1
Sampled Date	Oct 09, 2025 4:10 PM
Sample Description	Waste water
Location	6810DC2
Date Analysis Commenced	Oct 15, 2025
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Cyanide as CN	mg/L	0.002	0.005	<0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	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

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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Section Head

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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 :
Project Name : Water Project 2025
Project Location : CHATREE

Lot ID: 25112238
Date Received : Dec 15, 2025
Date Reported : Dec 24, 2025
Report Number : 3471895-1

Sample Number	25112238-1
Sampled Date	Dec 14, 2025 4:00 PM
Sample Description	Waste water
Location	6812DC2
Date Analysis Commenced	Dec 17, 2025
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Cyanide as CN	mg/L	0.002	0.005	0.023	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok

Remark :
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- Sampling is not included in scope of accreditation ISO/IEC 17025

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Scientist (3)

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O :
Project Name : Water Project 2025
Project Location : CHATREE

Lot ID: 261038
Date Received : Jan 05, 2026
Date Reported : Jan 07, 2026
Report Number : 3482484-1

Sample Number	261038-1
Sampled Date	Dec 14, 2026 4:00 PM
Sample Description	Waste water
Location	6812DC2
Date Analysis Commenced	Jan 06, 2026
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	0.002	0.005	0.021	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O :
Project Name : Water Project 2025
Project Location : CHATREE

Lot ID: 261038
Date Received : Jan 05, 2026
Date Reported : Jan 07, 2026
Report Number : 3482484-1

Sample Number	261038-1
Sampled Date	Dec 14, 2026 4:00 PM
Sample Description	Waste water
Location	6812DC2
Date Analysis Commenced	Jan 06, 2026
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
Weak Acid Dissociable Cyanide	mg/L	0.002	0.005	0.021	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Remark :
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 2576079
Date Received : Aug 22, 2025
Date Reported : Aug 28, 2025
Report Number : 3381969-1

Sample Number	2576079-1
Sampled Date	Aug 21, 2025 9:00 AM
Sample Description	Tailing
Location	Spigot 5
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	1.8	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

Remark :
- LOD : Limit of Detection
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

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Section Head

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 2576079
Date Received : Aug 22, 2025
Date Reported : Aug 28, 2025
Report Number : 3381969-1

Sample Number	2576079-2
Sampled Date	Aug 21, 2025 9:30 AM
Sample Description	Tailing
Location	Spigot 21
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	2.1	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

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

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Section Head

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 2576079
Date Received : Aug 22, 2025
Date Reported : Aug 28, 2025
Report Number : 3381969-1

Sample Number	2576079-3
Sampled Date	Aug 21, 2025 9:15 AM
Sample Description	Tailing
Location	Spigot 14
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	1.4	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

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

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Section Head

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 2576079
Date Received : Aug 22, 2025
Date Reported : Aug 28, 2025
Report Number : 3381969-1

Sample Number	2576079-4
Sampled Date	Aug 21, 2025 9:45 AM
Sample Description	Tailing
Location	Spigot 26
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	1.3	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

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

Approved by

Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25101877
Date Received : Nov 15, 2025
Date Reported : Nov 20, 2025
Report Number : 3443015-1

Sample Number	25101877-1
Sampled Date	Nov 13, 2025 8:45 AM
Sample Description	Tailing
Location	Spigot 66
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	7.0	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

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

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Section Head

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25101877
Date Received : Nov 15, 2025
Date Reported : Nov 20, 2025
Report Number : 3443015-1

Sample Number	25101877-2
Sampled Date	Nov 13, 2025 9:15 AM
Sample Description	Tailing
Location	Spigot 69
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	5.8	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25101877
Date Received : Nov 15, 2025
Date Reported : Nov 20, 2025
Report Number : 3443015-1

Sample Number	25101877-3
Sampled Date	Nov 13, 2025 9:30 AM
Sample Description	Tailing
Location	Spigot 72
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	3.0	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

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

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Section Head

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001911
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25101877
Date Received : Nov 15, 2025
Date Reported : Nov 20, 2025
Report Number : 3443015-1

Sample Number	25101877-4
Sampled Date	Nov 13, 2025 9:40 AM
Sample Description	Tailing
Location	Spigot 75
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Contained in two amber glass bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Total Concentration Test (TTLC) : Chemical						
Cyanide	mg/kg	-	0.2	3.3	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok

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

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Section Head

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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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-2
Sampled Date	Aug 21, 2025 1:30 PM
Sample Description	Wastewater
Location	6808UD
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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	0.05	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	<0.0005	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	0.16	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	0.006	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	350	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	0.005	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	0.11	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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Manager

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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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-2
Sampled Date	Aug 21, 2025 1:30 PM
Sample Description	Wastewater
Location	6808UD
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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	62.1	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	2.08	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	0.01	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	0.0007	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	22.5	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	105	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	2.98	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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-2
Sampled Date	Aug 21, 2025 1:30 PM
Sample Description	Wastewater
Location	6808UD
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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 CaCO3 *	mg/L	-	1	140	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 CaCO3 *	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 CaCO3 *	mg/L	-	1	140	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	16.7	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 CaCO3 *	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	17.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Non-Carbonate Hardness as CaCO3 *	mg/L	-	1	990	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO3 *	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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Manager

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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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-2
Sampled Date	Aug 21, 2025 1:30 PM
Sample Description	Wastewater
Location	6808UD
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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	1044	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	140	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	1876	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3 *	mg/L	-	1	1130	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Total Organic Carbon *	mg/L	0.03	0.1	0.53	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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-3
Sampled Date	Aug 21, 2025 1:49 PM
Sample Description	Wastewater
Location	6808UD2
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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	0.01	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	0.17	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	0.03	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	485	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	0.06	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	2.29	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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Manager

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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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-3
Sampled Date	Aug 21, 2025 1:49 PM
Sample Description	Wastewater
Location	6808UD2
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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	10.9	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	2.02	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	2.30	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	103	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	389	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	0.06	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	28.5	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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Manager

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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 : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-3
Sampled Date	Aug 21, 2025 1:49 PM
Sample Description	Wastewater
Location	6808UD2
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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 CaCO3 *	mg/L	-	1	20	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	5.3	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 CaCO3 *	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 CaCO3 *	mg/L	-	1	20	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	102	ISE Application	Bangkok
COD	mg/L	-	25	48	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	1.669	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3 *	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	15.9	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Non-Carbonate Hardness as CaCO3 *	mg/L	-	1	1237	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO3 *	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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Analysis / Test Report

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 2576075
Date Received : Aug 22, 2025
Date Reported : Sep 05, 2025
Report Number : 3381958-1

Sample Number	2576075-3
Sampled Date	Aug 21, 2025 1:49 PM
Sample Description	Wastewater
Location	6808UD2
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in two glass vials and six 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	2005	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	20	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	2944	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3 *	mg/L	-	1	1257	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Total Organic Carbon *	mg/L	0.03	0.1	9.74	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	1.649	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.
- Sampling is not included in scope of accreditation ISO/IEC 17025

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-1
Sampled Date	Nov 14, 2025 2:02 PM
Sample Description	Wastewater
Location	6811UD
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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	0.62	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	0.01	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	0.06	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	0.43	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	484	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	0.004	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	0.04	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	0.004	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	3.41	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	0.002	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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-1
Sampled Date	Nov 14, 2025 2:02 PM
Sample Description	Wastewater
Location	6811UD
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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	56.4	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	6.89	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	0.19	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	0.002	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	40.9	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	0.0006	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	294	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	0.06	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	10.5	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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Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-1
Sampled Date	Nov 14, 2025 2:02 PM
Sample Description	Wastewater
Location	6811UD
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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 CaCO3	mg/L	-	1	142	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	2.2	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 CaCO3	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 CaCO3	mg/L	-	1	142	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	45.1	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	0.382	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	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	0.30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Non-Carbonate Hardness as CaCO3	mg/L	-	1	1208	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO3	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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-1
Sampled Date	Nov 14, 2025 2:02 PM
Sample Description	Wastewater
Location	6811UD
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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	1646	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	142	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	2620	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	1349	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Total Organic Carbon	mg/L	0.03	0.1	1.45	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	62	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	0.382	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

Remark :
- LOD : Limit of Detection
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-2
Sampled Date	Nov 14, 2025 2:49 PM
Sample Description	Wastewater
Location	6811UD2
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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	<0.0005	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	0.14	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	0.002	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	536	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	0.06	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	2.24	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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Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-2
Sampled Date	Nov 14, 2025 2:49 PM
Sample Description	Wastewater
Location	6811UD2
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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	9.69	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	2.86	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	98.7	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	432	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	30.1	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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Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-2
Sampled Date	Nov 14, 2025 2:49 PM
Sample Description	Wastewater
Location	6811UD2
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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 CaCO3	mg/L	-	1	56	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 CaCO3	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 CaCO3	mg/L	-	1	56	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	6.480	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
Hydroxide Alkalinity as CaCO3	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	1.02	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO3 E	Bangkok
Non-Carbonate Hardness as CaCO3	mg/L	-	1	1242	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO3	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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Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001931
Project Name : Water Project
Project Location :

Lot ID: 25101872
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3443005-1

Sample Number	25101872-2
Sampled Date	Nov 14, 2025 2:49 PM
Sample Description	Wastewater
Location	6811UD2
Date Analysis Commenced	Nov 15, 2025
Condition of Sample	Contained in two 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	1883	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	56	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	3184	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Hardness as CaCO3	mg/L	-	1	1297	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Total Organic Carbon	mg/L	0.03	0.1	9.98	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	6	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	6.480	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (I)	Bangkok

Sampling By :

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

Approved by

Manager

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-1
Sampled Date	Oct 16, 2025
Sample Description	SA1
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	60.2	Hydrometer	Bangkok
Silt	%	-	-	19.5	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Clay Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	35.9	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
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Manager

9.10/169

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-1
Sampled Date	Oct 16, 2025
Sample Description	SA1
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	33.9	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	37.4	Soil Chemical Methods - Australasia (2011)	Bangkok
Cyanide	mg/kg	-	0.2	0.4	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok
Nitrate as N	mg/kg	-	1.0	7.1	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	4.55	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	13.2	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	28.9	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	25353	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	17.1	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	1287	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	256	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	416	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	35.0	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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-2
Sampled Date	Oct 14, 2025
Sample Description	SA2
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Physical Parameters						
Moisture	%	-	0.1	1.9	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 G	Bangkok
Sand	%	-	-	60.3	Hydrometer	Bangkok
Silt	%	-	-	7.5	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Clay Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	51.0	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
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

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9.10/170

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-2
Sampled Date	Oct 14, 2025
Sample Description	SA2
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	28.2	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	67.6	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	5.4	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	1.38	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	55.9	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	63.4	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	61490	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	24.0	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	1597	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	184	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	429	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	103	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	32.2	Hydrometer	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-3
Sampled Date	Oct 17, 2025
Sample Description	SA3
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	60.3	Hydrometer	Bangkok
Silt	%	-	-	27.5	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	33.5	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)		-	-	6.6	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Note : Analysis Results expressed on dry basis.

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

Approved by

Manager

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

9.10/171

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-3
Sampled Date	Oct 17, 2025
Sample Description	SA3
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	65.1	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	42.5	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	7.8	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	2.51	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	26.0	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	34.5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	52121	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	10.7	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	1334	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	214	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	792	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	34.6	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	12.2	Hydrometer	Bangkok

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Manager

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number 25105239-4
Sampled Date Oct 14, 2025
Sample Description SA4
Date Analysis Commenced Nov 17, 2025
Condition of Sample Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	60.3	Hydrometer	Bangkok
Silt	%	-	-	27.5	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	36.2	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)		-	-	6.6	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Note : Analysis Results expressed on dry basis.

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

Approved by

Manager

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

9.10/172

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number 25105239-4
Sampled Date Oct 14, 2025
Sample Description SA4
Date Analysis Commenced Nov 17, 2025
Condition of Sample Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	85.2	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	36.5	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	4.3	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	3.41	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	20.2	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	51.9	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	47954	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	33.3	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	1733	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	352	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	519	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	76.3	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	12.2	Hydrometer	Bangkok

Approved by

Manager

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-5
Sampled Date	Oct 17, 2025
Sample Description	SA5
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	52.3	Hydrometer	Bangkok
Silt	%	-	-	31.5	Hydrometer	Bangkok
Soil Texture		-	-	Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	33.3	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)		-	-	6.3	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Note : Analysis Results expressed on dry basis.

Remark :
- LOD : Limit of Detection
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

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Manager

9.10/173

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-5
Sampled Date	Oct 17, 2025
Sample Description	SA5
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	64.9	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	34.6	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	5.9	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	3.74	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	23.9	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	42.7	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	32781	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	22.4	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	1417	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	254	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	706	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	157	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	16.0	Hydrometer	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-6
Sampled Date	Oct 16, 2025
Sample Description	SA6
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Physical Parameters						
Moisture	%	-	0.1	1.2	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 G	Bangkok
Sand	%	-	-	68.5	Hydrometer	Bangkok
Silt	%	-	-	23.4	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	24.8	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
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-6
Sampled Date	Oct 16, 2025
Sample Description	SA6
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	34.3	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	75.4	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	10.4	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	3.00	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	53.4	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	28.9	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	15028	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	17.7	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	704	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	204	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	522	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	39.4	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	8.2	Hydrometer	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-7
Sampled Date	Oct 17, 2025
Sample Description	SA7
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Physical Parameters						
Moisture	%	-	0.1	0.9	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 G	Bangkok
Sand	%	-	-	68.5	Hydrometer	Bangkok
Silt	%	-	-	27.7	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	19.0	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)		-	-	5.9	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Note : Analysis Results expressed on dry basis.

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

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9L10/175

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-7
Sampled Date	Oct 17, 2025
Sample Description	SA7
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	25.5	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	19.1	Soil Chemical Methods - Australasia (2011)	Bangkok
Cyanide	mg/kg	-	0.2	0.4	United States Environmental Protection Agency, EPA Method 9013 and 9010 B	Bangkok
Nitrate as N	mg/kg	-	1.0	3.9	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	2.73	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	53.6	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	25.3	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	34984	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	6.07	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	974	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	314	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	38.9	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	3.8	Hydrometer	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-8
Sampled Date	Oct 14, 2025
Sample Description	SA8
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	60.5	Hydrometer	Bangkok
Silt	%	-	-	23.7	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	26.0	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)		-	-	5.9	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Note : Analysis Results expressed on dry basis.

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

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9.10/176

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-8
Sampled Date	Oct 14, 2025
Sample Description	SA8
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	73.7	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	82.8	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	2.6	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	3.07	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	28.1	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	60.1	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	42211	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	20.3	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	198	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	282	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	264	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	317	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	15.8	Hydrometer	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-9
Sampled Date	Oct 14, 2025
Sample Description	SA9
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	48.5	Hydrometer	Bangkok
Silt	%	-	-	15.5	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Clay	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	47.8	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
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-9
Sampled Date	Oct 14, 2025
Sample Description	SA9
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	31.5	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	41.9	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	3.9	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	0.29	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	3.56	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	25.0	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	26833	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	8.87	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	526	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	98.7	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	336	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	%	-	-	36.0	Hydrometer	Bangkok

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9.10/177

MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-10
Sampled Date	Oct 14, 2025
Sample Description	SA10
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	60.5	Hydrometer	Bangkok
Silt	%	-	-	23.5	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	19.6	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
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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9.10/178

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-10
Sampled Date	Oct 14, 2025
Sample Description	SA10
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	17.3	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	18.2	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	5.1	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	1.81	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	33.0	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	40.5	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	36165	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	15.8	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	982	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	227	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	254	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	53.3	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	16.0	Hydrometer	Bangkok

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-11
Sampled Date	Oct 16, 2025
Sample Description	SA11
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Physical Parameters						
Moisture	%	-	0.1	1.2	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 G	Bangkok
Sand	%	-	-	60.6	Hydrometer	Bangkok
Silt	%	-	-	23.7	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	21.1	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
- "<" : 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 Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-11
Sampled Date	Oct 16, 2025
Sample Description	SA11
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	27.9	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	19.0	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	5.2	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	1.79	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	5.67	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	19.4	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	20708	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	7.47	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	267	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	205	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	391	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	459	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	15.7	Hydrometer	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Manager

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MM-N12

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received : Nov 15, 2025
Date Reported : Nov 28, 2025
Report Number : 3451880-1

Sample Number	25105239-12
Sampled Date	Oct 17, 2025
Sample Description	SA12
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

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	Bangkok
Sand	%	-	-	60.6	Hydrometer	Bangkok
Silt	%	-	-	16.0	Hydrometer	Bangkok
Soil Texture		-	-	Sandy Loam	Hydrometer	Bangkok
Soil Testing						
Cation Exchange Capacity	cmol/kg	-	1	31.4	Soil Chemical Methods - Australasia (2011)	Bangkok
pH aqueous phase 50% (w/v)		-	-	7.9	United States Environmental Protection Agency, EPA Method 9045 D	Bangkok

Note : Analysis Results expressed on dry basis.

Remark :
- LOD : Limit of Detection
- "<" : 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. The report shall not be reproduced except in full without the written approval of the laboratory.

Approved by

Manager

9.10/180

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001912
Project Name : Soil,Solid Wast,Plant, Fish, Food
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Sample Number	25105239-12
Sampled Date	Oct 17, 2025
Sample Description	SA12
Date Analysis Commenced	Nov 17, 2025
Condition of Sample	Packed in one plastic zip bag

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Chemical Testing						
Chloride	mg/kg	-	10	56.8	Soil Chemical Methods - Australasia (2011)	Bangkok
Conductivity aqueous phase 20% (w/v)	micromhos/cm	-	-	35.4	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	2.2	Soil Chemical Methods - Australasia (2011)	Bangkok
Organic matter	%	-	0.05	0.60	Soil Chemical Methods - Australasia (2011)	Bangkok
Metals Testing						
Arsenic	mg/kg	-	0.50	8.25	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	31.7	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Iron	mg/kg	-	1.00	25834	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Lead	mg/kg	-	1.00	9.10	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	911	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	175	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Potassium	mg/kg	-	20.0	631	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Zinc	mg/kg	-	1.00	78.9	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters						
Clay	%	-	-	23.4	Hydrometer	Bangkok

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. The report shall not be reproduced except in full without the written approval of the laboratory.

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