

เอกสารแนบ 30
หนังสือรับรองผลการตรวจวัดคุณภาพสิ่งแวดล้อม



Analysis / Test Report

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.

99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

TESTING
No.0009

TESTING
No.0009

Lot ID: 2576236

Date Received : Aug 27, 2025

Date Reported : Sep 04, 2025

Report Number : 3382297-1

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Page 1 of 35

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 *	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
	Total Suspended Particulate	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 :

Remark :

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

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

TESTING
No.0009

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Sample Number	2576236-4							
Sampled Date	Aug 22, 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	32.2 °C							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Hydrogen cyanide *	22/08/25 - 23/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	22/08/25 - 23/08/25	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
Sampled By :

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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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Client : Akara Resources Public Co., Ltd.

99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number	2576236-6
Sampled Date	Aug 24, 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	32.6 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Hydrogen cyanide *	24/08/25 - 25/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	24/08/25 - 25/08/25	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 Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number	2576236-5
Sampled Date	Aug 23, 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	31.7 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Hydrogen cyanide *	23/08/25 - 24/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	23/08/25 - 24/08/25	mg/m3	-	0.005	0.020	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

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

Lot ID: 2576238

Date Received : Aug 28, 2025
Date Reported : Sep 03, 2025
Report Number: 3382333-1

Page 1 of 1

Sample Description	Air Quality	2576238-1	2576238-2	2576238-3	2576238-4	2576238-5	2576238-6	2576238-7
Location	Ban Dong Long	Aug 19, 2025	Aug 20, 2025	Aug 21, 2025	Aug 22, 2025	Aug 23, 2025	Aug 24, 2025	Aug 25, 2025
Parameter	Nitrogen dioxide (ppm)	0.0063	0.0036	0.0051	0.0057	0.0058	0.0032	0.0076
Measurement Date	Aug 19, 2025 - Aug 26, 2025	0.0040	0.0025	0.0036	0.0038	0.0066	0.0025	0.0042
Measurement by	Jatsarawut Pattama	0.0041	0.0037	0.0033	0.0027	0.0089	0.0021	0.0037
Time		0.0056	0.0035	0.0034	0.0012	0.0084	0.0029	0.0055
12:00 PM - 01:00 PM		0.0042	0.0019	0.0034	0.0040	0.0066	0.0028	0.0056
01:00 PM - 02:00 PM		0.0029	0.0041	0.0037	0.0048	0.0072	0.0030	0.0027
02:00 PM - 03:00 PM		0.0024	0.0118	0.0046	0.0015	0.0086	0.0030	0.0030
03:00 PM - 04:00 PM		0.0032	0.0077	0.0054	0.0055	0.0079	0.0038	0.0060
04:00 PM - 05:00 PM		0.0068	0.0085	0.0045	0.0070	0.0079	0.0034	0.0083
05:00 PM - 06:00 PM		0.0057	0.0117	0.0043	0.0039	0.0073	0.0026	0.0082
06:00 PM - 07:00 PM		0.0104	0.0085	0.0031	0.0053	0.0084	0.0026	0.0115
07:00 PM - 08:00 PM		0.0050	0.0098	0.0032	0.0137	0.0090	0.0073	0.0094
08:00 PM - 09:00 PM		0.0074	0.0081	0.0012	0.0135	0.0106	0.0052	0.0085
09:00 PM - 10:00 PM		0.0051	0.0059	0.0015	0.0058	0.0162	0.0061	0.0045
10:00 PM - 11:00 AM		0.0069	0.0089	0.0011	0.0068	0.0157	0.0071	0.0029
11:00 PM - 12:00 AM		0.0045	0.0114	0.0024	0.0076	0.0075	0.0076	0.0027
12:00 AM - 01:00 AM		0.0071	0.0148	0.0011	0.0086	0.0083	0.0088	0.0064
01:00 AM - 02:00 AM		0.0019	0.0139	0.0038	0.0069	0.0055	0.0057	0.0073
02:00 AM - 03:00 AM		0.0103	0.0090	0.0045	0.0059	0.0053	0.0066	0.0061
03:00 AM - 04:00 AM		0.0064	0.0133	0.0057	0.0073	0.0076	0.0096	0.0063
04:00 AM - 05:00 AM		0.0079	0.0056	0.0047	0.0095	0.0099	0.0101	0.0092
05:00 AM - 06:00 AM		0.0082	0.0072	0.0040	0.0156	0.0106	0.0067	0.0089
06:00 AM - 07:00 AM		0.0047	0.0066	0.0052	0.0123	0.0086	0.0069	0.0075
07:00 AM - 08:00 AM		0.0052	0.0069	0.0051	0.0072	0.0081	0.0068	0.0068
08:00 AM - 09:00 AM		0.0057	0.0079	0.0037	0.0069	0.0086	0.0053	0.0064
09:00 AM - 10:00 AM		0.0104	0.0148	0.0057	0.0156	0.0162	0.0101	0.0115
10:00 AM - 11:00 AM		0.170	0.170	0.170	0.170	0.170	0.170	0.170
11:00 AM - 12:00 PM								
Average								
1hr - Maximum								
Standard 1hr - Average								

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : U.S. Environmental Protection Agency/Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

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

Lot ID: 2576236

Date Received : Aug 27, 2025
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Sample Number	2576236-7							
Sampled Date	Aug 25, 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	32.2 °C							
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Hydrogen cyanide *	25/08/25 - 26/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	25/08/25 - 26/08/25	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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P/O : 1001947
Project Name : Air Test
Project Location :

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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

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 *	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
	Total Suspended Particulate	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 : NEB No.24 : Notification of the Nation Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By :

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Project Name : Air Test

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Sample Number 2576236-18
Sampled Date Aug 22, 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 32.4 °C

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 *	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
	Total Suspended Particulate	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

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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Guideline :

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Sampled By :

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

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

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Sample Number 2576236-20
Sampled Date Aug 24, 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 32.5 °C

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

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Analysis / Test Report

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

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

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Sample Number 2576236-19
Sampled Date Aug 23, 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 31.6 °C

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

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

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

Lot ID: 2576238
Date Received : Aug 28, 2025
Date Reported : Sep 03, 2025
Report Number: 3397619-1

Page 1 of 1

Sample Description	Air Quality	2576238-15	2576238-16	2576238-17	2576238-18	2576238-19	2576238-20	2576238-21
Location	Ban Khao Mor							
Parameter	Nitrogen dioxide (ppm)							
Measurement Date	Aug 19, 2025 - Aug 26, 2025							
Measurement by	Jatsarawut Pattama							
Time		2576238-15	2576238-16	2576238-17	2576238-18	2576238-19	2576238-20	2576238-21
02:00 PM - 03:00 PM		0.0041	0.0085	0.0172	0.0116	0.0080	0.0090	0.0088
03:00 PM - 04:00 PM		0.0049	0.0075	0.0142	0.0111	0.0087	0.0072	0.0099
04:00 PM - 05:00 PM		0.0059	0.0061	0.0107	0.0080	0.0084	0.0057	0.0106
05:00 PM - 06:00 PM		0.0068	0.0053	0.0102	0.0086	0.0068	0.0045	0.0119
06:00 PM - 07:00 PM		0.0058	0.0053	0.0102	0.0066	0.0061	0.0041	0.0115
07:00 PM - 08:00 PM		0.0060	0.0045	0.0097	0.0085	0.0041	0.0038	0.0075
08:00 PM - 09:00 PM		0.0050	0.0036	0.0109	0.0068	0.0050	0.0044	0.0058
09:00 PM - 10:00 PM		0.0045	0.0030	0.0090	0.0055	0.0053	0.0053	0.0051
10:00 PM - 11:00 PM		0.0046	0.0032	0.0087	0.0051	0.0044	0.0060	0.0042
11:00 PM - 12:00 AM		0.0046	0.0037	0.0109	0.0049	0.0044	0.0048	0.0042
12:00 AM - 01:00 AM		0.0064	0.0025	0.0108	0.0044	0.0047	0.0038	0.0035
01:00 AM - 02:00 AM		0.0035	0.0036	0.0099	0.0038	0.0041	0.0034	0.0028
02:00 AM - 03:00 AM		0.0029	0.0023	0.0094	0.0038	0.0041	0.0036	0.0068
03:00 AM - 04:00 AM		0.0023	0.0021	0.0087	0.0037	0.0041	0.0045	0.0054
04:00 AM - 05:00 AM		0.0014	0.0013	0.0081	0.0030	0.0041	0.0038	0.0037
05:00 AM - 06:00 AM		0.0043	0.0026	0.0122	0.0036	0.0037	0.0026	0.0027
06:00 AM - 07:00 AM		0.0044	0.0028	0.0104	0.0027	0.0033	0.0029	0.0025
07:00 AM - 08:00 AM		0.0068	0.0045	0.0100	0.0028	0.0086	0.0135	0.0028
08:00 AM - 09:00 AM		0.0078	0.0059	0.0102	<0.0001	0.0099	0.0059	0.0120
09:00 AM - 10:00 AM		0.0091	0.0082	0.0106	0.0048	0.0075	0.0060	0.0113
10:00 AM - 11:00 AM		0.0092	0.0105	0.0111	0.0057	0.0076	0.0059	0.0068
11:00 AM - 12:00 PM		0.0092	0.0136	0.0124	0.0063	0.0099	0.0072	0.0041
12:00 PM - 01:00 PM		0.0087	0.0161	0.0128	0.0067	0.0085	0.0081	0.0043
01:00 PM - 02:00 PM		0.0098	0.0161	0.0114	0.0081	0.0094	0.0085	0.0038
Average		0.0058	0.0060	0.0108	0.0057	0.0063	0.0056	0.0063
1hr - Maximum		0.0098	0.0161	0.0172	0.0116	0.0099	0.0135	0.0120
Standard 1hr - Average		0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : U.S. Environmental Protection Agency/Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheutuk, Amphur Thaplor, 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

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Sample Number	2576236-21							
Sample Date	Aug 25, 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	32.3 °C							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Hydrogen cyanide *	25/08/25 - 26/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	25/08/25 - 26/08/25	mg/m3	-	0.005	0.027	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok

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

Remark :
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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

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

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

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

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

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Sample Number 2576236-32
Sampled Date Aug 22, 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 32.4 °C

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 *	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
	Total Suspended Particulate	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
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

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Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Barometric Pressure	Atmospheric Temperature
2576236-34	Aug 24, 2025	Air Quality	Ban Long Du	Aug 28, 2025	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated	750 mmHg	32.6 °C
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing							
Hydrogen cyanide *	24/08/25 - 25/08/25	mg/m3	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	24/08/25 - 25/08/25	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 : 3

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Analysis / Test Report

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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

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Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Barometric Pressure	Atmospheric Temperature
2576236-33	Aug 23, 2025	Air Quality	Ban Long Du	Aug 28, 2025	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated	750 mmHg	31.8 °C
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing							
Hydrogen cyanide *	23/08/25 - 24/08/25	mg/m3	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	23/08/25 - 24/08/25	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 : 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

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

Lot ID: 2576238

Date Received : Aug 28, 2025
Date Reported : Sep 03, 2025
Report Number: 3397621-1

Page 1 of 1

Sample Description	Air Quality	2576238-29	2576238-30	2576238-31	2576238-32	2576238-33	2576238-34	2576238-35
Location	Ban Long Du							
Parameter	Nitrogen dioxide (ppm)							
Measurement Date	Aug 19, 2025 - Aug 26, 2025							
Measurement by	Jatsarawut Pattama							
Time								
04:00 PM - 05:00 PM	0.0051	0.0105	0.0124	0.0099	0.0075	0.0041	0.0116	0.0116
05:00 PM - 06:00 PM	0.0035	0.0106	0.0130	0.0084	0.0059	0.0039	0.0074	0.0074
06:00 PM - 07:00 PM	0.0053	0.0109	0.0084	0.0094	0.0041	0.0038	0.0068	0.0068
07:00 PM - 08:00 PM	0.0051	0.0111	0.0074	0.0078	0.0060	0.0035	0.0064	0.0064
08:00 PM - 09:00 PM	0.0047	0.0132	0.0078	0.0082	0.0087	0.0036	0.0071	0.0071
09:00 PM - 10:00 PM	0.0049	0.0141	0.0077	0.0077	0.0068	0.0014	0.0088	0.0088
10:00 PM - 11:00 PM	0.0105	0.0127	0.0098	0.0062	0.0059	0.0019	0.0094	0.0094
11:00 PM - 12:00 AM	0.0127	0.0139	0.0095	0.0060	0.0050	0.0025	0.0076	0.0076
12:00 AM - 01:00 AM	0.0145	0.0130	0.0088	0.0055	0.0072	0.0024	0.0039	0.0039
01:00 AM - 02:00 AM	0.0152	0.0028	0.0080	0.0059	0.0048	0.0022	0.0062	0.0062
02:00 AM - 03:00 AM	0.0124	0.0024	0.0076	0.0054	0.0057	0.0017	0.0035	0.0035
03:00 AM - 04:00 AM	0.0077	0.0018	0.0028	0.0046	0.0030	0.0015	0.0024	0.0024
04:00 AM - 05:00 AM	0.0067	0.0014	0.0016	0.0052	0.0035	0.0019	0.0027	0.0027
05:00 AM - 06:00 AM	0.0066	0.0011	0.0028	0.0028	0.0033	0.0019	0.0019	0.0019
06:00 AM - 07:00 AM	0.0054	0.0018	0.0017	0.0032	0.0041	0.0027	0.0023	0.0023
07:00 AM - 08:00 AM	0.0057	0.0030	0.0017	0.0023	0.0042	0.0020	0.0026	0.0026
08:00 AM - 09:00 AM	0.0090	0.0027	0.0016	0.0021	0.0031	0.0016	0.0017	0.0017
09:00 AM - 10:00 AM	0.0120	0.0026	0.0013	0.0025	0.0022	0.0026	0.0018	0.0018
10:00 AM - 11:00 AM	0.0129	0.0041	0.0025	0.0031	0.0025	0.0035	0.0029	0.0029
11:00 AM - 12:00 PM	0.0128	0.0044	0.0034	0.0035	0.0029	0.0031	0.0062	0.0062
12:00 PM - 01:00 PM	0.0055	0.0034	0.0049	0.0027	0.0071	0.0025	0.0040	0.0040
01:00 PM - 02:00 PM	0.0031	0.0027	0.0063	0.0024	0.0062	0.0027	0.0033	0.0033
02:00 PM - 03:00 PM	0.0057	0.0067	0.0063	0.0021	0.0059	0.0082	0.0076	0.0076
03:00 PM - 04:00 PM	0.0114	0.0067	0.0083	0.0060	0.0063	0.0044	0.0034	0.0034
Average	0.0083	0.0066	0.0060	0.0051	0.0051	0.0029	0.0051	0.0051
1hr - Maximum	0.0152	0.0141	0.0130	0.0099	0.0087	0.0082	0.0116	0.0116
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : U.S. Environmental Protection Agency/Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

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

TESTING
No.0009

Lot ID: 2576236

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

Page 35 of 35

Sample Number	2576236-35							
Sampled Date	Aug 25, 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	32.6 °C							
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Hydrogen cyanide *	25/08/25 - 26/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	25/08/25 - 26/08/25	mg/m3	-	0.005	0.020	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

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.

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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

TESTING
No.0009

TESTING
No.0009

Lot ID: 2576236

Date Received : Aug 27, 2025

Date Reported : Sep 04, 2025

Report Number : 3382297-1

Page 9 of 35

Page 8 of 35

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

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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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

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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number	2576236-11							
Sampled Date	Aug 22, 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	32.4 °C							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Hydrogen cyanide *	22/08/25 - 23/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	22/08/25 - 23/08/25	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

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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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

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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

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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Client : Akara Resources Public Co., Ltd.

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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

TESTING
No.0009

TESTING
No.0009

Lot ID: 2576236

Date Received : Aug 27, 2025

Date Reported : Sep 04, 2025

Report Number : 3382297-1

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Sample Number 2576236-13
Sampled Date Aug 24, 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

Sample Number 2576236-12
Sampled Date Aug 23, 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 31.8 °C

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

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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Guideline :

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Sampled By :

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Analysis / Test Report

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

Lot ID: 2576238

Date Received : Aug 28, 2025
Date Reported : Sep 03, 2025
Report Number: 3397617-1

Page 1 of 1

Sample Description	Air Quality	2576238-8	2576238-9	2576238-10	2576238-11	2576238-12	2576238-13	2576238-14
Location	Ban Nong Ra Man	Aug 19, 2025	Aug 20, 2025	Aug 21, 2025	Aug 22, 2025	Aug 23, 2025	Aug 24, 2025	Aug 25, 2025
Parameter	Nitrogen dioxide (ppm)	0.0028	0.0014	0.0026	0.0022	0.0026	0.0021	0.0015
Measurement Date	Aug 19, 2025 - Aug 26, 2025	0.0035	0.0075	0.0019	0.0032	0.0017	0.0063	0.0012
Measurement by	Jatsarawut Pattama	0.0020	0.0017	0.0017	0.0039	0.0015	0.0012	0.0018
Time		04:00 PM - 05:00 PM	0.0036	0.0015	0.0053	0.0036	0.0012	0.0021
		05:00 PM - 06:00 PM	0.0062	0.0097	0.0068	0.0062	0.0116	0.0048
		06:00 PM - 07:00 PM	0.0075	0.0090	0.0060	0.0035	0.0091	0.0099
		07:00 PM - 08:00 PM	0.0068	0.0068	0.0045	0.0007	0.0080	0.0063
		08:00 PM - 09:00 PM	0.0085	0.0141	0.0055	0.0051	0.0094	0.0044
		09:00 PM - 10:00 PM	0.0064	0.0057	0.0029	0.0060	0.0103	0.0056
		10:00 PM - 11:00 PM	0.0052	0.0073	0.0021	0.0063	0.0116	0.0070
		11:00 PM - 12:00 AM	0.0089	0.0068	0.0016	0.0040	0.0061	0.0043
		12:00 AM - 01:00 AM	0.0139	0.0051	0.0025	0.0034	0.0011	0.0035
		01:00 AM - 02:00 AM	0.0021	0.0039	0.0031	0.0022	0.0008	0.0105
		02:00 AM - 03:00 AM	0.0039	0.0090	0.0043	0.0018	0.0025	0.0096
		03:00 AM - 04:00 AM	0.0070	0.0106	0.0034	0.0043	0.0033	0.0063
		04:00 AM - 05:00 AM	0.0044	0.0115	0.0029	0.0053	0.0021	0.0027
		05:00 AM - 06:00 AM	0.0061	0.0116	0.0038	0.0060	0.0052	0.0043
		06:00 AM - 07:00 AM	0.0087	0.0124	0.0046	0.0049	0.0064	0.0054
		07:00 AM - 08:00 AM	0.0105	0.0137	0.0075	0.0094	0.0114	0.0110
		08:00 AM - 09:00 AM	0.0073	0.0081	0.0047	0.0047	0.0053	0.0180
		09:00 AM - 10:00 AM	0.0048	0.0045	0.0035	0.0023	0.0029	0.0195
		10:00 AM - 11:00 AM	0.0028	0.0029	0.0033	0.0019	0.0020	0.0085
		11:00 AM - 12:00 PM	0.0020	0.0029	0.0034	0.0015	0.0016	0.0042
		12:00 PM - 01:00 PM	0.0021	0.0025	0.0027	0.0023	0.0014	0.0102
Average		0.0058	0.0072	0.0034	0.0042	0.0038	0.0051	0.0068
1hr - Maximum		0.0139	0.0141	0.0075	0.0101	0.0094	0.0116	0.0195
Standard 1hr - Average		0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : U.S. Environmental Protection Agency Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

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Sample Number	2576236-14								
Sampled Date	Aug 25, 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	32.4 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	25/08/25 - 26/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	25/08/25 - 26/08/25	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	

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

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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

TESTING
No.0009

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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	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

Guideline :

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Sampled By :

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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

TESTING
No.0009

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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	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

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

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.

99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

TESTING
No.0009

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Lot ID: 2576236

Date Received : Aug 27, 2025

Date Reported : Sep 04, 2025

Report Number : 3382297-1

Page 25 of 35

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Sample Number	2576236-25
Sampled Date	Aug 22, 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	31.8 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline Testing Location
Air Testing								
Hydrogen cyanide *	22/08/25 - 23/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	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 :

Remark :

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

Scientist (3)

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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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 27 of 35

Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Barometric Pressure	Atmospheric Temperature
2576236-27	Aug 24, 2025	Air Quality	Ban Klong Sai Yang Rong	Aug 28, 2025	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated	750 mmHg	32.7 °C
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing							
Hydrogen cyanide *	24/08/25 - 25/08/25	mg/m3	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	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 : 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

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 26 of 35

Sample Number	Sampled Date	Sample Description	Location	Date Analysis Commenced	Condition of Sample	Barometric Pressure	Atmospheric Temperature
2576236-26	Aug 23, 2025	Air Quality	Ban Klong Sai Yang Rong	Aug 28, 2025	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one amber plastic bottle, refrigerated	750 mmHg	31.4 °C
Analyte	Sampled Date/time	Unit	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing							
Hydrogen cyanide *	23/08/25 - 24/08/25	mg/m3	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	Bangkok
Total Suspended Particulate	23/08/25 - 24/08/25	mg/m3	0.005	0.010	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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- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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MM-N08

Analysis / Test Report

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

Lot ID: 2576238
Date Received : Aug 28, 2025
Date Reported : Sep 03, 2025
Report Number: 3397620-1

Page 1 of 1

Sample Description	Air Quality	2576238-22	2576238-23	2576238-24	2576238-25	2576238-26	2576238-27	2576238-28
Location	Ban Klong Sai Yang Rong							
Parameter	Nitrogen dioxide (ppm)							
Measurement Date	Aug 19, 2025 - Aug 26, 2025							
Measurement by	Jatsarawut Pattama							
Time								
03:00 PM - 04:00 PM	0.0021	0.0055	0.0022	0.0046	0.0025	0.0019	0.0013	
04:00 PM - 05:00 PM	0.0022	0.0054	0.0022	0.0045	0.0025	0.0032	0.0017	
05:00 PM - 06:00 PM	0.0025	0.0033	0.0034	0.0040	0.0032	0.0029	0.0018	
06:00 PM - 07:00 PM	0.0032	0.0041	0.0066	0.0050	0.0003	0.0028	0.0018	
07:00 PM - 08:00 PM	0.0028	0.0042	0.0028	0.0054	0.0041	0.0028	0.0028	
08:00 PM - 09:00 PM	0.0022	0.0043	0.0044	0.0051	0.0043	0.0042	0.0040	
09:00 PM - 10:00 PM	0.0021	0.0037	0.0041	0.0068	0.0040	0.0023	0.0030	
10:00 PM - 11:00 PM	0.0029	0.0040	0.0039	0.0073	0.0043	0.0021	0.0027	
11:00 PM - 12:00 AM	0.0037	0.0034	0.0032	0.0051	0.0039	0.0019	0.0027	
12:00 AM - 01:00 AM	0.0042	0.0033	0.0030	0.0037	0.0034	0.0016	0.0023	
01:00 AM - 02:00 AM	0.0048	0.0027	0.0028	0.0041	0.0026	0.0022	0.0023	
02:00 AM - 03:00 AM	0.0044	0.0026	0.0028	0.0035	0.0022	0.0017	0.0023	
03:00 AM - 04:00 AM	0.0043	0.0033	0.0029	0.0029	0.0023	0.0016	0.0022	
04:00 AM - 05:00 AM	0.0033	0.0034	0.0029	0.0057	0.0024	0.0024	0.0020	
05:00 AM - 06:00 AM	0.0033	0.0033	0.0027	0.0063	0.0026	0.0016	0.0020	
06:00 AM - 07:00 AM	0.0037	0.0038	0.0030	0.0068	0.0024	0.0015	0.0019	
07:00 AM - 08:00 AM	0.0044	0.0058	0.0028	0.1000	0.0020	0.0022	0.0028	
08:00 AM - 09:00 AM	0.0044	0.0056	0.0038	0.0150	0.0037	0.0019	0.0035	
09:00 AM - 10:00 AM	0.0048	0.0056	0.0039	0.0135	0.0031	0.0021	0.0026	
10:00 AM - 11:00 AM	0.0040	0.0095	0.0040	0.0037	0.0034	0.0024	0.0065	
11:00 AM - 12:00 PM	0.0042	0.0053	0.0033	0.0034	0.0036	0.0024	0.0087	
12:00 PM - 01:00 PM	0.0027	0.0037	0.0026	0.0034	0.0039	0.0019	0.0112	
01:00 PM - 02:00 PM	0.0020	0.0034	0.0124	0.0036	0.0037	0.0015	0.0103	
02:00 PM - 03:00 PM	0.0042	0.0022	0.0088	0.0025	0.0019	0.0012	0.0145	
Average	0.0034	0.0042	0.0039	0.0057	0.0030	0.0021	0.0040	
1hr - Maximum	0.0048	0.0095	0.0124	0.0150	0.0043	0.0042	0.0145	
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : U.S. Environmental Protection Agency/Method Part 50 App. F (Chemiluminescence)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, 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

Page 28 of 35

Sample Number	2576236-28								
Sample Date	Aug 25, 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	32.6 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide *	25/08/25 - 26/08/25	mg/m3	-	0.10	<0.10	No Standard	Based on NIOSH, P&CAM 116	-	Bangkok
Total Suspended Particulate	25/08/25 - 26/08/25	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
Sampled By :

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 1001947
Project Name : Air Test
Project Location :
Lot ID: 2584173
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399615-1

Page 1 of 1

Sample Number	2584173-1
Sample Date	Sep 08, 2025
Sample Description	Emission from Stationary Source
Location	Acid Hood/ Outlet
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Extracted into two amber plastic bottles, refrigerated

Stack Description				
Ambient Pressure	747	mmHg	Diameter	0.30
Ambient Temperature	33.0	°C	Shape	Circle
Type of Process	Process		Stack Temperature	32.0
Type of Fuel	-		Moisture	2.27
			Flow Rate (Actual O2)	2773
				Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
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Air Testing								
Hydrogen Chloride	03:20 PM - 04:20 PM	mg/m3	-	0.01	0.42	200	U.S. Environmental Protection Agency 40 CFR method 1-4, 26, 2020 (Include sampling)	Bangkok
Sulfuric acid *	03:20 PM - 04:08 PM	ppm	-	0.01	<0.01	25	U.S. Environmental Protection Agency, EPA Method 8	Bangkok

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

Sampling By : Ardit Srisen ๖๖๖๖๖๖๖๖ ๖-204-๓-0048

Remark :

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๖๖๖๖๖๖๖๖ ๖-204-๓-0027

Approved by

Assistant General Manager
๖๖๖๖๖๖๖๖ ๖-204-๓-0004

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaohetluk, Amphur Thaplor, Phichit Thailand 66230
P/O : 1001947
Project Name : Air Test
Project Location :
Lot ID: 2584174
Date Received : Sep 12, 2025
Date Reported : Sep 19, 2025
Report Number: 3399618-1

Page 1 of 1

Sample Number	2584174-1
Sample Date	Sep 08, 2025
Sample Description	Emission from Stationary Source
Location	Cyanide Hood/ Output
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Extracted into one amber plastic bottle, refrigerated

Stack Description				
Ambient Pressure	747	mmHg	Diameter	0.30
Ambient Temperature	33.0	°C	Shape	Circle
Type of Process	Process		Stack Temperature	27.0
Type of Fuel	-		Moisture	10.98
			Flow Rate (Actual O2)	2260
				Nm3/hr

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

Air Testing							
Hydrogen cyanide	02:30 PM - 03:00 PM	mg/m3	-	0.01	0.04	NIOSH (1994), P&CAM 116	Bangkok

Sampling By :

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

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MM-N08

Analysis / Test Report

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

Lot ID: 2584161
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399578-1

Page 1 of 1

Sample Number	2584161-1
Sampled Date	Sep 10, 2025
Sample Description	Emission from Stationary Source
Location	Electro Winning Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish and two amber plastic bottles, refrigerated

Stack Description					
Ambient Pressure	747	mmHg	Diameter	0.45	m
Ambient Temperature	33.0	°C	Shape	Circle	
Type of Process	-		Stack Temperature	38.0	°C
Type of Fuel	-		Moisture	3.32	%
			Flow Rate (Actual O2)		%
				5892	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Hydrogen Chloride	01:50 PM - 02:42 PM	mg/m3	-	0.01	0.32	200	U.S. Environmental Protection Agency 40 CFR method 1-4, 26, 2020 (include sampling)	Bangkok
Oxides of Nitrogen *	02:00 PM - 02:10 PM	ppm	-	1.06	<1.06	No Standard	U.S. Environmental Protection Agency, EPA Method 7	Bangkok
Total Suspended Particulate	01:50 PM - 02:42 PM	mg/m3	-	0.5	1.6	400	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A, 2020 (include sampling)	Bangkok

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

Sampling By : หนึ่งนุชาพร วัชร-204-3-0048

Remark :

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Scientist (3)
หนึ่งนุชาพร วัชร-204-3-0027

Assistant General Manager
หนึ่งนุชาพร วัชร-204-3-0004

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Analysis / Test Report

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

Lot ID: 2584171
Date Received : Sep 12, 2025
Date Reported : Sep 19, 2025
Report Number: 3399612-1

Page 1 of 1

Sample Number	2584171-1
Sampled Date	Sep 08, 2025
Sample Description	Emission from Stationary Source
Location	Lab Dust Collectory/ Huttlet
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one filter paper placed in plastic petri dish

Stack Description					
Ambient Pressure	747	mmHg	Diameter	0.57	m
Ambient Temperature	33.0	°C	Shape	Circle	
Type of Process	-		Stack Temperature	37.0	°C
Type of Fuel	-		Moisture	2.83	%
			%O ₂ Rate (Actual H ₂)		F
				14978	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Air Testing								
Total Suspended Particulate	02:40 PM - 03:28 PM	mg/m3	-	0.5	2.0	400	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A, 2020 (include sampling)	Bangkok

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

Sampling By : หนึ่งนุชาพร วัชร-204-3-0048

Remark :

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- "L" : Lower than LH* (Limit of *antitation) / LHR (Limit of Reporting)
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Scientist (3)
หนึ่งนุชาพร วัชร-204-3-0027

Assistant General Manager
หนึ่งนุชาพร วัชร-204-3-0004

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MM-N08



Analysis / Test Report

TESTING
No.0009

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

Lot ID: 2584169
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399610-1

Page 1 of 2

Sample Number	2584169-1				
Sampled Date	Sep 09, 2025				
Sample Description	Emission from Stationary Source				
Location	Carbon Regeneration Plant 1				
Date Analysis Commenced	Sep 13, 2025				
Condition of Sample	Extracted into one 10-L air sampling bag, 100 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated				

Stack Description								
Ambient Pressure	747	mmHg	Diameter	0.40	m	GHgen	9.5	%
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	7.5	%
Type of Process	Combustion		Stack Temperature	340	°C	Gas Velocity	6.2	m/s
Type of Fuel	LPG		Moisture	17.77	%	%O ₂ Rate (Actual G2)	1106	Nm ³ /hr
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Method	Guideline Limit	Testing Location

Air Testing								
Carbon Monoxide I	03:40 PM - 03:50 PM	ppm	-	1.0	37.7	690	U.S. Environmental Protection Agency, EPA Method 10	Bangkok
x ydrogen Chloride	03:30 PM - 04:22 PM	mg/m3	-	0.01	0.34	160	U.S. Environmental Protection Agency 40 C°R method 1-4, 26, 2020 (include sampling)	Bangkok
GHdes of Nitrogen I	03:40 PM - 03:50 PM	ppm	-	1.06	34.2	200	U.S. Environmental Protection Agency, EPA Method 7	Bangkok
Sulfur dioHde I	03:30 PM - 04:00 PM	ppm	-	2.0	*2.00	60	U.S. Environmental Protection Agency, EPA Method 6	Bangkok
Total Suspended Particulate	03:30 PM - 04:22 PM	mg/m3	-	0.5	9.7	320	U.S. Environmental Protection Agency 40 C°R method 1-5, AppendH4, 2020 (-include sampling)	Bangkok

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

Sampling By : ๒๕๘๔๑๖๙ ๒-204-๓-0048

Remark :

Technical Management

Scientist (3)

๒๕๘๔๑๖๙ ๒-204-๓-0027

Approved by

Assistant General Manager

๒๕๘๔๑๖๙ ๒-204-๓-0004

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Life Sciences

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2244-231 EMAIL

S:\Reports\Air Stack_GL.rpt (4:20PM)



Analysis / Test Report

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

Lot ID: 2584161
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399578-2

Page 1 of 1

Sample Number	2584161-1				
Sampled Date	Sep 10, 2025				
Sample Description	Emission from Stationary Source				
Location	Electro Winning Plant 2				
Date Analysis Commenced	Sep 15, 2025				
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish and two amber plastic bottles, refrigerated				

Stack Description						
Ambient Pressure	747	mmHg	Diameter	0.45	m	Oxygen
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide
Type of Process	Process	Stack Temperature	38.0	°C		Gas Velocity
Type of Fuel	-	Moisture	3.32	%		Flow Rate (Actual O2)
						5892 Nm3/hr
analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method
						Testing Location

Air Testing						
Hydrogen cyanide	02:00 PM - 02:30 PM	mg/m3	-	0.01	0.58	NIOSH (1994), P8CAM 116
						Bangkok

Sampling By :

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

Approved by

Scientist (3)

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๒.30/23



Analysis / Test Report

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

Lot ID: 2584169

Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report - umber: 339961082

Page 1 of 1

Sample Number	2584169-1
Sampled Date	Sep 09, 2025
Sample Description	Emission from Stationary Source
Location	Carbon Regeneration Plant 1
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Extracted into one 100L air sampling bag, 100 2L collection gasks, one glass paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description					
Ambient Pressure	747	mmHg	Diameter	0.40	m
Ambient Temperature	33.0	°C	Shape	Circle	
Type of Process	Combustion		Stack Temperature	340	°C
Type of Fuel	LP%		Moisture	17.77	G
			%as velocity	6.2	m/s
			FLO Rate (Actual V2)	1106	- m3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
Air Testing x Hydrogen cyanide	04:00 PM 804:30 PM	mN/m3	8	0.01	0.02	- IVSX (1994), P8CAM 116	BanNok

Sampling By :

Remark :
- LVD : Limit of Detection
- " < " : LOQ or than LVQ (Limit of Quantitation) / LVR (Limit of Reporting)

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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: 2584169

Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399610-1

Page 2 of 2

Sample Number	2584169-1
Sampled Date	Sep 09, 2025
Sample Description	Emission from Stationary Source
Location	Carbon Regeneration Plant 1
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, 100 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description					
Ambient Pressure	747	mmHg	Diameter	0.40	m
Ambient Temperature	33.0	°C	Shape	Circle	
Type of Process	Combustion		Stack Temperature	340	°C
Type of Fuel	LPF		Moisture	17.77	%
			%as velocity	6.2	m/s
			FLO Rate (Actual G2)	1106	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location
- LGD : Limit of Detection							
- " < " : LOQ or than LGQ (Limit of Quantitation) / LGR (Limit of Reporting)							
- Analyte(s) marked I is/are not included in scope of Accreditation -SG/ <C 17025.							

Technical Management

Scientist (3)

หน้างาน 7-204-0027

หน้างาน 7-204-0004

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MM-N08

Analysis / Test Report

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

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

Analysis / Test Report

Lot ID: 2584168
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report gumber: 339960-N

TESTING
No.0009

Page 2 of 2

Sample Number	25-416-N
Sampled Date	Sep 09, 2025
Sample Description	Emission 80m Stationary Source
Location	Carbon Ref generation Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10N air samplinf baf, 10o 2N collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description									
Ambient Pressure	747	mmxf	Diameter	0.40	m	GH/en	0.5	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon DioHde	13.1	%	
Type o8Process	Combustion		Stack Temperature	570	°C	Fas Velocity	16.9	m/s	
Type o8%uel	LPF		Moisture	32.17	%	%oO Rate (Actual G2)	1-06	gm3/hr	
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline Limit	Method	Testing Location	

- LGD : Limit o8Detection
- "m" : LoOer than LGQ (Limit o8Quantitation) / LGR (Limit o8Reportinf)
- Analyte(s) marked I is/are not included in scope o8Accreditation -SG/EC 17025.

Page 1 of 2

Sample Number	25-416-N
Sampled Date	Sep 09, 2025
Sample Description	Emission 80m Stationary Source
Location	Carbon Ref generation Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10N air samplinf baf, 10o 2N collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description									
Ambient Pressure	747	mmxf	Diameter	0.40	m	GH/en	0.5	%	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon DioHde	13.1	%	
Type o8Process	Combustion		Stack Temperature	570	°C	Fas Velocity	16.9	m/s	
Type o8%uel	LPF		Moisture	32.17	%	%oO Rate (Actual G2)	1-06	gm3/hr	
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline Limit	Method	Testing Location	

Air Testing									
Carbon MonoHde I	11:00 AM N11:10 AM	ppm	N	1.0	6--	690	U.S. Environmental Protection Af ency, EPA Method 10	Banfick	
x ydrofen Chloride	10:30 AM N11:10 PM	mf/m3	N	0.01	0.37	160	U.S. Environmental Protection Af ency 40 C'R method 1N, 26, 2020 (-include samplinf)	Banfick	
GHdes o8gltrofen I	10:40 AM N10:50 AM	ppm	N	1.06	25.2	200	U.S. Environmental Protection Af ency, EPA Method 7	Banfick	
Sulfar dioHde I	10:30 AM N11:00 AM	ppm	N	2.0	* 2.00	60	U.S. Environmental Protection Af ency, EPA Method 6	Banfick	
Total Suspended Particulate	10:30 AM N11:10 AM	mf/m3	N	0.5	144	320	U.S. Environmental Protection Af ency 40 C'R method 1N, AppendHA -2020 (-include samplinf)	Banfick	

Guideline : gotifikation o8the Ministry o8Industry 2006 (B.E. 2549) Published in the Royal Government Fazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Sampling By : วิทยาศาสตร์ วิทยาศาสตร์

Remark :

Technical Management

Approved by

Approved by

Assistant General Manager
วิทยาศาสตร์ วิทยาศาสตร์

Scientist (3)
วิทยาศาสตร์ วิทยาศาสตร์

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MM-N08



Analysis / Test Report

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

Lot ID: 2584165
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399627-1

Page 1 of 2

Sample Number		2584176-1
Sample Date		Sep 10, 2025
Sample Description		Emission from Stationary Source
Location		Hot Oil Plant 1
Date Analysis Commenced		Sep 13, 2025
Condition of Sample		Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description									
Ambient Pressure	747	mmHg	Diameter	0.40	m	Oxygen	6.2	G	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.1	G	
Type of Process	Combustion		Stack Temperature	190	°C	%as Velocity	5.5	m/s	
Type of Fuel	LP%		Moisture	10.65	G	Flow Rate (Actual O2)	1404	Nm3/hr	
Stack Description									
Analyte	Unit	LOQ (LOR)	Rebit at 6 %O ₂	Gbis eline Limit	Methos	7eaking Location			
Carbon Monoxide I	ppm	-	1.0	690	U.S. Environmental Protection Agency, EPA Method 10	Bangkok			
Hydrogen Chloride	mg/m3	-	0.01	160	U.S. Environmental Protection Agency 40 CFR method 1-4, 26, 2020 (include sampling)	Bangkok			
Oxides of Nitrogen I	ppm	-	1.06	200	U.S. Environmental Protection Agency, EPA Method 7	Bangkok			
Sulfur dioxide I	ppm	-	*2.00	60	U.S. Environmental Protection Agency, EPA Method 6	Bangkok			
Total Suspended Particulate	mg/m3	-	*0.5	320	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A, 2020 (include sampling)	Bangkok			

Gbis eline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
amulimng BF : 2006 (B.E. 2549)
Remark :

Technical Management **yuroves df**
Scientist (3)
วิรัตน์ นนท 2-204-3-0027

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Analysis / Test Report

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

Lot ID: 2584168
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399608-2

Page 1 of 1

Sample Number		2584168-1
Sample Date		Sep 09, 2025
Sample Description		Emission from Stationary Source
Location		Carbon Regeneration Plant 2
Date Analysis Commenced		Sep 15, 2025
Condition of Sample		Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description									
Ambient Pressure	747	mmHg	Diameter	0.40	m	VHygen	0.5	G	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon DioHde	13.1	G	
Type of Process	Combustion		Stack Temperature	570	°C	%as velocity	16.9	m/s	
Type of Fuel	LP%		Moisture	32.17	G	FlOo Rate (Actual V2)	1806	Nm3/hr	
Analyte	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Method	Testing Location			
Hydrogen cyanide	mg/m3	-	0.01	0.65	NIVSx (1994), PRCAM 116	Bangkok			

Sampling By :
Remark :
- LVD : Limit of Detection
- %e" : LoOer than LVQ (Limit of Quantitation) / LVR (Limit of Reporting)

Approved by

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น.30/26



Analysis / Test Report

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

Lot ID: 2584165
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report - umber: 339962782

Page 1 of 1

pamule Nbmder	2584176-1
pamules Date	Sep 10, 2025
pamule Decription	Emission from Stationary Source
Location	Hot Oil Plant 1
Date ynaif AA Commences	Sep 13, 2025
Consition okpamule	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

pact Decription									
Ambient Pressure	747	mmHg	Diameter	0.40	m	OxyNen	6.2	V	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.1	V	
Type og Process	Combustion		Stack Temperature	190	°C	Gas velocity	5.5	m/s	
Type og %gel	LPG		Moisture	10.65	%	% ^o Rate (Actual O2)	1404	- m3/hr	

ynalfe	pamules 7ime	Unit	LOD	LOQ (LOR)	Rebilit at 6 %O ₂	Methos	7eking Location
yir 7eking							
HydroNen cyanide	09:40 AM 8:10:10 AM	mN/m3	8	0.01	1.001	- 80SH (1994), PBCAM 116	QanNok

pamuling BF : Artit Srisen
Remark :
- LOD : Limit ogDetection
- 4 < : Lo^o er than LO^o (Limit og" unititation) / LOR (Limit ogReportinN)

yuuroves df

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Analysis / Test Report

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

Lot ID: 2584165
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399627-1

Page 2 of 2

pamule Nbmder	2584176-1
pamules Date	Sep 10, 2025
pamule Decription	Emission from Stationary Source
Location	Hot Oil Plant 1
Date ynaif AA Commences	Sep 13, 2025
Consition okpamule	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

pact Decription									
Ambient Pressure	747	mmHg	Diameter	0.40	m	Oxygen	6.2	G	
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide	9.1	G	
Type of Process	Combustion		Stack Temperature	190	°C	% ^o Velocity	5.5	m/s	
Type of Fuel	LP%		Moisture	10.65	%	Flow Rate (Actual O2)	1404	Nm3/hr	

ynalfe	pamules 7ime	Unit	LOD	LOQ (LOR)	Rebilit at 6 %O ₂	Methos	7eking Location

- LOD : Limit of Detection
- "na" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked I is/are not included in scope of Accreditation -50/±C 17025.

yuuroves df

Scientist (3)
พณณณณณณ 7-204-7-0027

Assistant General Manager
พณณณณณณ 7-204-7-0004

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MM-N08

Analysis / Test Report

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

Lot ID: 2584175
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399623-1

TESTING
No.0009

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

Lot ID: 2584175

Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399623-1

Page 2 of 2

Sample Number	2584175-1
Sampled Date	Sep 09, 2025
Sample Description	Emission from Stationary Source
Location	Hot Oil Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description						
Ambient Pressure	747	mmHg	Diameter	0.40	m	Oxygen
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide
Type of Process	Combustion		Stack Temperature	194	°C	%as Velocity
Type of Fuel	LP%		Moisture	10.38	G	Flow Rate (Actual O2)
						1602 Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline Limit	Method	Testing Location
- LOD : Limit of Detection								
- "as" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)								
- Analyte(s) marked 1 is/are not included in scope of Accreditation -ISO/IEC 17025.								

Technical Management _____ **Approved by** _____
Scientist (3) หนึ่งแสนต์ ำ-204-ำ-0027
Assistant General Manager หนึ่งแสนต์ ำ-204-ำ-0004

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น.30/28

Analysis / Test Report

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

Lot ID: 2584175

Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399623-1

Page 1 of 2

Sample Number	2584175-1
Sampled Date	Sep 09, 2025
Sample Description	Emission from Stationary Source
Location	Hot Oil Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description						
Ambient Pressure	747	mmHg	Diameter	0.40	m	Oxygen
Ambient Temperature	33.0	°C	Shape	Circle		Carbon Dioxide
Type of Process	Combustion		Stack Temperature	194	°C	%as Velocity
Type of Fuel	LP%		Moisture	10.38	G	Flow Rate (Actual O2)
						1602 Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O ₂	Guideline Limit	Method	Testing Location
Air Testing								
Carbon Monoxide I	12:50 PM - 01:00 PM	ppm	-	1.0	12.8	690	U.S. Environmental Protection Agency, EPA Method 10	Bangkok
Hydrogen Chloride	12:40 PM - 01:28 PM	mg/m3	-	0.01	0.44	160	U.S. Environmental Protection Agency 40 CFR method 1-4, 26, 2020 (include sampling)	Bangkok
Oxides of Nitrogen I	12:45 PM - 12:55 PM	ppm	-	1.06	6.07	200	U.S. Environmental Protection Agency, EPA Method 7	Bangkok
Sulfur dioxide I	12:40 PM - 01:10 PM	ppm	-	2.0	* 2.00	60	U.S. Environmental Protection Agency, EPA Method 6	Bangkok
Total Suspended Particulate	12:40 PM - 01:28 PM	mg/m3	-	0.5	0.8	320	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A - 2020 (include sampling)	Bangkok

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)
Sampling By : หนึ่งแสนต์ ำ-204-ำ-0048
Remark :

Technical Management _____ **Approved by** _____
Scientist (3) หนึ่งแสนต์ ำ-204-ำ-0027
Assistant General Manager หนึ่งแสนต์ ำ-204-ำ-0004

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
ALS Laboratory (Kao I Dang) strongly recommends that the report is not reproduced except in full.
ADDRESS 104 Phatthananakan 40, Phatthananakan Rd., Khwaeng Phatthananakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



MM-N08



Analysis / Test Report

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

Lot ID: 2584166
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399607-1

Page 1 of 2

Sample Number	2584166-1
Sampled Date	Sep 11, 2025
Sample Description	Emission from Stationary Source
Location	Hold Melting Furnace Plant 1
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description						
Analyte	Sampled Time	Unit	LOQ (LOR)	Result	Guideline Limit	Method
Air Testing Carbon Monoxide I	10:20 AM - 10:30 AM	ppm	-	1.0	13.7	U.S. Environmental Protection Agency, EPA Method 10
	10:00 AM - 10:44 AM	mg/m3	-	0.01	0.31	U.S. Environmental Protection Agency 40 CFR method 1-4, 26, 2020 %include samplingV
Oxygen Chloride	10:05 AM - 10:15 AM	ppm	-	1.06	3.02	U.S. Environmental Protection Agency, EPA Method 7
Gases of Nitrogen I	10:00 AM - 10:30 AM	ppm	-	2.0	*2.00	U.S. Environmental Protection Agency, EPA Method 6
Sulfur dioxide I	10:00 AM - 10:44 AM	mg/m3	-	0.5	8.4	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A, 2020 %include samplingV
Total Suspended Particulate	10:00 AM - 10:44 AM	mg/m3	-	0.5	8.4	U.S. Environmental Protection Agency 40 CFR method 1-5, Appendix A, 2020 %include samplingV

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

Sampling By : 2006 %E. 2549V

Remark :

Technical Management	Approved by
Scientist %B วันที่ 204-3-0027	Assistant General Manager วันที่ 204-3-0004

ADDRESS 104 Phatthakanan 40, Phatthakanan Rd., Khwaeng Phatthakanan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2 760 3000 | FAX +66 0 2 760 3197



Analysis / Test Report

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

Lot ID: 2584175
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report - number: 339962382

Page 1 of 1

Sample Number	2584175-1
Sampled Date	Sep 09, 2025
Sample Description	Emission from Stationary Source
Location	Hot Oil Plant 2
Date Analysis Commenced	Sep 15, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description						
Analyte	Sampled Time	Unit	LOQ (LOR)	Result at %O ₂	Method	Testing Location
Air Testing Hydrogen cyanide	01:10 PM 8:01:40 PM	mN/m3	8	0.01	- TOSH (1994), PRCAM 116	BanNok
	01:10 PM 8:01:40 PM	mN/m3	8	0.01	- TOSH (1994), PRCAM 116	BanNok

Sampling By :

Remark :

- LOD : Limit of Detection
- %O₂ : % of Oxygen
- %CO₂ : % of Carbon Dioxide
- %H₂O : % of Water
- %H₂ : % of Hydrogen
- %CH₄ : % of Methane
- %C₂H₆ : % of Ethane
- %C₃H₈ : % of Propane
- %iC₄H₁₀ : % of Isobutane
- %nC₄H₁₀ : % of Normal Butane
- %iC₅H₁₂ : % of Isopentane
- %nC₅H₁₂ : % of Normal Pentane
- %iC₆H₁₄ : % of Isohexane
- %nC₆H₁₄ : % of Normal Hexane
- %iC₇H₁₆ : % of Isheptane
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- %iC₈H₁₈ : % of Isooctane
- %nC₈H₁₈ : % of Normal Octane
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- %iC₁₀H₂₂ : % of Undecane
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- %iC₁₃₆H₂₇₄ : % oftriacontane
- %nC₁₃₆H₂₇₄ : % of Normal Octadecane
- %iC₁₃₇H₂₇₆ : % oftriacontane
- %nC₁₃₇H₂₇₆ : % of Normal Octadecane
- %iC₁₃₈H₂₇₈ : % oftriacontane
- %nC₁₃₈H₂₇₈ : % of Normal Octadecane
- %iC₁₃₉H₂₈₀ : % oftriacontane
- %nC₁₃₉H₂₈₀ : % of Normal Octadecane
- %iC₁₄₀H₂₈₂ : % oftriacontane
- %nC₁₄₀H₂₈₂ : % of Normal Octadecane
- %iC₁₄₁H₂₈₄ : % oftriacontane
- %nC₁₄₁H₂₈₄ : % of Normal Octadecane
- %iC₁₄₂H₂₈₆ : % oftriacontane
- %nC₁₄₂H₂₈₆ : % of Normal Octadecane
- %iC₁₄₃H₂₈₈ : % oftriacontane
- %nC₁₄₃H₂₈₈ : % of Normal Octadecane
- %iC₁₄₄H₂₉₀ : % oftriacontane
- %nC₁₄₄H₂₉₀ : % of Normal Octadecane
- %iC₁₄₅H₂₉₂ : % oftriacontane
- %nC₁₄₅H₂₉₂ : % of Normal Octadecane
- %iC₁₄₆H₂₉₄ : % oftriacontane
- %nC₁₄₆H₂₉₄ : % of Normal Octadecane
- %iC₁₄₇H₂₉₆ : % oftriacontane
- %nC₁₄₇H₂₉₆ : % of Normal Octadecane
- %iC₁₄₈H₂₉₈ : % oftriacontane
- %nC₁₄₈H₂₉₈ : % of Normal Octadecane
- %iC₁₄₉H₃₀₀ : % oftriacontane
- %nC₁₄₉H₃₀₀ : % of Normal Octadecane
- %iC₁₅₀H₃₀₂ : % oftriacontane
- %nC₁₅₀H₃₀₂ : % of Normal Octadecane
- %iC₁₅₁H₃₀₄ : % oftriacontane
- %nC₁₅₁H₃₀₄ : % of Normal Octadecane
- %iC₁₅₂H₃₀₆ : % oftriacontane
- %nC₁₅₂H₃₀₆ : % of Normal Octadecane
- %iC₁₅₃H₃₀₈ : % oftriacontane
- %nC₁₅₃H₃₀₈



Analysis / Test Report

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

Lot ID: 2584166
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report - umber: 339960782

Page 1 of 1

Sample Number	2584166-1
Sampled Date	Sep 11, 2025
Sample Description	Emission from Stationary Source
Location	Hold Melting Furnace Plant 1
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description				
Ambient Pressure	747	mmHg	Diameter	19.9
Ambient Temperature	33.0	%	Shape	Circle
Type of Process	Combustion	%	Stack Temperature	107
Type of Fuel	LPH	(	Moisture	5.4
			Flow Rate	1106
Analyte	Sampled Time	Unit	Result	Testing Location

Air Testing				
Fydr/Nen cyanide	10:30 AM 8:11:00 AM	mN/m3	0.13	BanNok
			0.01	116

Sampling By :

Remark :

- LVD : Limit of Detection
- "L" : Lower than LVD
- "Q" : Lower than LVD
- "Q" : Lower than LVD

Approved by

Results apply to the sample(s) submitted, unless the sampling is as conducted by ALS - a part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) Co., Ltd. An ALS Limited Company

Scientist GW

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Analysis / Test Report

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

Lot ID: 2584166
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report Number: 3399607-1

Page 2 of 2

Sample Number	2584166-1
Sampled Date	Sep 11, 2025
Sample Description	Emission from Stationary Source
Location	Hold Melting Furnace Plant 1
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description				
Ambient Pressure	747	mmHg	Diameter	19.9
Ambient Temperature	33.0	%	Shape	Circle
Type of Process	Combustion	%	Stack Temperature	107
Type of Fuel	LPH	(	Moisture	5.4
			Flow Rate	1806
Analyte	Sampled Time	Unit	Result	Testing Location

- LGD : Limit of Detection

- "L" : Lower than LGD

- "Q" : Lower than LGD

- "Q" : Lower than LGD

Technical Management Approved by

Scientist GW
หน้างาน 204-2-0027

Assistant General Manager
หน้างาน 204-2-0004

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MM-N08

Analysis / Test Report

Analysis / Test Report

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

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

Page 2 of 2

Page 1 of 2

Sample Number	2584165-1
Sampled Date	Sep 11, 2025
Sample Description	Emission from Stationary Source
Location	Hold Melting Furnace Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description						
Ambient Pressure	747	mm ² g	Diameter	m	Gygen	19.8 (
Ambient Temperature	33.0	FC	Shape	Circle	Carbon Dioxide	0.7 (
Type of Process	Combustion %Open SystemV	Stack Temperature	Moisture	FC	Has) elocity	11.1 m/s
Type of Quel	LPH	Combustion %Open SystemV	Moisture	FC	Flow Rate %Actual G2V	8816 Nm3/hr
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Testing Location

- LGD : Limit of Detection
- "m" : Lower than LGD %Limit of QuantitationV/ LGR %Limit of Reporting V
- Analyte%marked 1 is/are not included in scope of Accreditation -SG/EC 17025.

Technical Management _____ **Approved by** _____
Scientist %V
หน้าแผนกที่ 2-204-2-0027

Assistant General Manager
หน้าแผนกที่ 2-204-2-0004

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

น.30/31

Sample Number	2584165-1
Sampled Date	Sep 11, 2025
Sample Description	Emission from Stationary Source
Location	Hold Melting Furnace Plant 2
Date Analysis Commenced	Sep 13, 2025
Condition of Sample	Extracted into one 10-L air sampling bag, two 2-L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Stack Description						
Ambient Pressure	747	mm ² g	Diameter	m	Gygen	19.8 (
Ambient Temperature	33.0	FC	Shape	Circle	Carbon Dioxide	0.7 (
Type of Process	Combustion %Open SystemV	Stack Temperature	Moisture	FC	Has) elocity	11.1 m/s
Type of Quel	LPH	Combustion %Open SystemV	Moisture	FC	Flow Rate %Actual G2V	8816 Nm3/hr
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Testing Location

Air Testing	Carbon Monoxide I	09:00 AM - 09:10 AM	ppm	-	1.0	1.2	690	U.S. Environmental Protection Agency, EPA Method 10	Bangkok
% hydrogen Chloride		08:40 AM - 09:22 AM	mg/m3	-	0.01	0.29	160	U.S. Environmental Protection Agency 40 CCR method 1-4, 26, 2020 %Include samplingV	Bangkok
Oxides of Nitrogen I		09:00 AM - 09:10 AM	ppm	-	1.06	5.99	200	U.S. Environmental Protection Agency, EPA Method 7	Bangkok
Sulfur dioxide I		08:50 AM - 09:20 AM	ppm	-	2.0	* 2.00	60	U.S. Environmental Protection Agency, EPA Method 6	Bangkok
Total Suspended Particulate		08:40 AM - 09:22 AM	mg/m3	-	0.5	6.5	320	U.S. Environmental Protection Agency 40 CCR method 1-5, Appendix A - 2020 %Include samplingV	Bangkok

Guideline : Notification of the Ministry of Industry 2006 %E. 2549VPublished in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 %E. 2549V

Sampling By : หน้าแผนกที่ 2-204-2-0048

Remark :

Technical Management _____ **Approved by** _____
Scientist %V
หน้าแผนกที่ 2-204-2-0027

Assistant General Manager
หน้าแผนกที่ 2-204-2-0004

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Analysis / Test Report

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

Lot ID: 2584165
Date Received : Sep 12, 2025
Date Reported : Sep 24, 2025
Report - umber: 339960682

25f 41658f
Sep 11, 2025
Emission grom Stationary Source
Hold Melting Furnace Plant 2
Sep 15, 2025
Extracted into one 108 air sampling bag of 28L collection bags, one after paper placed in plastic petri dish and three amber plastic bottles, refrigerated

Sample Number
Sample Date
Sample Description
Location
Date Analysis Commenced
Condition of Sample

Page 1 of 1

Sample Number		25f 416581							
Sampled Date		Sep 11, 2025							
Sample Description		Emission from Stationary Source							
Location		Hold MeltrN Furnace Plant 2							
Date Analysis Commenced		Sep 15, 2025							
Condition of Sample		Extracted into one 108L air sample in N ₂ bag o 28L collection flasks, one filter paper placed in plastic petri dish and three amber plastic bottles, refrigerated							
Stack Description									
Ambient Pressure	747	mmHg	Diameter	0.60	m	V _{xy} /N _{xy}	19.1	(	
Ambient Temperature	33.0	%	Shape	Circle		Carbon Dioxide	0.7	(	
Type of Process	Combustion of pen System	Stack Temperature	ff.0	%	Has velocity	11.1	m/s		
Type of Fuel	LPH	Moisture	3.91	(	Gas Rate Actual V2w	ff.16	- m ³ /hr		
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location		
Air Testing									
Fydrone cyanide	09:20 AM 8/05/30 AM	mN/m ³	8	0.01	0.05	- TVSF G994w PRCAM 116	Ban Nok		

Sampling By :
Remark :

- LVD : Limit of Detection
- " < " : Less than LVD Limit of Quantitation / LVR Limit of Reporting

Approved by

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Scientist GW



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkor, 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		Jatsarawat 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

Technical Management Scientist (3) **Approved by** Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkor, 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		Jatsarawat 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

Technical Management Scientist (3) **Approved by** Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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: 3395843-1

Sample Number	2576285-4			
Parameter	Air Quality			
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)			
Measurement Date	Aug 22 - Aug 23, 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	41.7	68.9		36.0
02:00 PM - 03:00 PM	42.5	62.8		36.1
03:00 PM - 04:00 PM	42.9	72.1		35.7
04:00 PM - 05:00 PM	42.7	68.5		37.1
05:00 PM - 06:00 PM	45.2	62.8		37.6
06:00 PM - 07:00 PM	44.3	64.5		37.3
07:00 PM - 08:00 PM	60.4	71.5		46.9
08:00 PM - 09:00 PM	47.7	61.5		44.6
09:00 PM - 10:00 PM	49.3	66.0		47.4
10:00 PM - 11:00 PM	49.8	61.8		47.5
11:00 PM - 12:00 AM	51.1	62.6		48.5
12:00 AM - 01:00 AM	51.6	65.7		48.9
01:00 AM - 02:00 AM	49.1	62.6		47.1
02:00 AM - 03:00 AM	48.5	61.6		46.1
03:00 AM - 04:00 AM	47.1	61.5		45.2
04:00 AM - 05:00 AM	49.7	64.0		46.3
05:00 AM - 06:00 AM	52.2	66.8		48.1
06:00 AM - 07:00 AM	49.3	67.8		44.8
07:00 AM - 08:00 AM	48.2	64.9		42.0
08:00 AM - 09:00 AM	50.0	69.5		40.5
09:00 AM - 10:00 AM	47.2	72.7		34.8
10:00 AM - 11:00 AM	49.6	71.3		34.8
11:00 AM - 12:00 PM	43.6	64.0		33.6
12:00 PM - 01:00 PM	43.5	73.2		31.7

Technical Management Scientist (3) Approved by Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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	46.1	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

Technical Management Scientist (3) Approved by Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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: 3395845-1

Page 1 of 1

Sample Number		2576285-6		
Parameter		Air Quality		
Location		Ban Dong Long (GPS 47Q 0678205, 1802158)		
Measurement Date		Aug 24 - Aug 25, 2025		
Measurement by		Jatsarawat Pattama		
Sound Level meter		Serial No. 597155		
Time		Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
01:00 PM - 02:00 PM		42.3	65.7	36.4
02:00 PM - 03:00 PM		41.9	60.2	36.7
03:00 PM - 04:00 PM		43.3	67.1	37.0
04:00 PM - 05:00 PM		41.9	65.3	36.9
05:00 PM - 06:00 PM		44.6	72.3	37.5
06:00 PM - 07:00 PM		44.0	68.8	37.4
07:00 PM - 08:00 PM		50.1	78.1	42.3
08:00 PM - 09:00 PM		52.0	74.1	49.0
09:00 PM - 10:00 PM		51.2	71.8	49.4
10:00 PM - 11:00 PM		49.5	57.5	48.4
11:00 PM - 12:00 AM		48.9	59.7	46.8
12:00 AM - 01:00 AM		56.7	67.2	46.4
01:00 AM - 02:00 AM		68.8	72.1	65.4
02:00 AM - 03:00 AM		68.2	71.3	66.9
03:00 AM - 04:00 AM		60.0	69.2	49.9
04:00 AM - 05:00 AM		54.8	70.8	49.4
05:00 AM - 06:00 AM		60.8	67.8	49.7
06:00 AM - 07:00 AM		49.6	71.0	42.9
07:00 AM - 08:00 AM		45.7	70.3	39.9
08:00 AM - 09:00 AM		42.5	63.2	37.9
09:00 AM - 10:00 AM		47.0	72.6	37.7
10:00 AM - 11:00 AM		51.3	71.5	38.9
11:00 AM - 12:00 PM		47.3	74.8	38.1
12:00 PM - 01:00 PM		48.3	73.3	39.5

Technical Management Scientist (3) **Approved by** Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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: 3395844-1

Page 1 of 1

Sample Number		2576285-5	
Parameter		Air Quality	
Location		Ban Dong Long (GPS 47Q 0678205, 1802158)	
Measurement Date		Aug 23 - Aug 24, 2025	
Measurement by		Jatsarawat Pattama	
Sound Level meter		Serial No. 597155	
Time		Leq (dB(A))	Lmax (dB(A))
01:00 PM - 02:00 PM		48.1	63.4
02:00 PM - 03:00 PM		48.6	70.3
03:00 PM - 04:00 PM		46.8	65.7
04:00 PM - 05:00 PM		45.7	77.0
05:00 PM - 06:00 PM		46.9	78.3
06:00 PM - 07:00 PM		47.3	70.5
07:00 PM - 08:00 PM		50.1	65.2
08:00 PM - 09:00 PM		47.4	70.9
09:00 PM - 10:00 PM		48.4	62.4
10:00 PM - 11:00 PM		49.8	57.5
11:00 PM - 12:00 AM		48.4	54.9
12:00 AM - 01:00 AM		48.0	64.0
01:00 AM - 02:00 AM		46.4	59.5
02:00 AM - 03:00 AM		46.7	62.6
03:00 AM - 04:00 AM		45.9	67.6
04:00 AM - 05:00 AM		47.0	52.5
05:00 AM - 06:00 AM		50.8	56.3
06:00 AM - 07:00 AM		51.4	70.8
07:00 AM - 08:00 AM		46.1	65.3
08:00 AM - 09:00 AM		43.0	63.0
09:00 AM - 10:00 AM		46.0	66.3
10:00 AM - 11:00 AM		46.3	71.8
11:00 AM - 12:00 PM		42.1	68.6
12:00 PM - 01:00 PM		41.0	63.3

Technical Management Scientist (3) **Approved by** Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkr, 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: 3395846-1

Sample Number	2576285-7			
Parameter	Air Quality			
Location	Ban Dong Long (GPS 47Q 0678205, 1802158)			
Measurement Date	Aug 25 - Aug 26, 2025			
Measurement by	Jatsarawut Pattana			
Sound Level meter	Serial No. 597155			
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
01:00 PM - 02:00 PM	44.7	67.9	39.6	
02:00 PM - 03:00 PM	46.1	75.0	39.2	
03:00 PM - 04:00 PM	44.0	67.8	38.8	
04:00 PM - 05:00 PM	44.4	62.8	39.7	
05:00 PM - 06:00 PM	46.5	69.8	40.4	
06:00 PM - 07:00 PM	43.2	64.4	37.9	
07:00 PM - 08:00 PM	50.4	63.6	47.2	
08:00 PM - 09:00 PM	48.2	71.8	46.3	
09:00 PM - 10:00 PM	51.8	72.6	46.5	
10:00 PM - 11:00 PM	55.1	64.9	52.9	
11:00 PM - 12:00 AM	63.4	70.0	56.1	
12:00 AM - 01:00 AM	62.7	68.9	56.4	
01:00 AM - 02:00 AM	55.4	68.0	50.8	
02:00 AM - 03:00 AM	51.4	64.5	49.6	
03:00 AM - 04:00 AM	64.6	92.8	48.9	
04:00 AM - 05:00 AM	68.7	74.1	57.7	
05:00 AM - 06:00 AM	66.7	72.1	55.7	
06:00 AM - 07:00 AM	49.0	65.0	45.6	
07:00 AM - 08:00 AM	48.0	65.9	43.0	
08:00 AM - 09:00 AM	45.2	67.9	40.9	
09:00 AM - 10:00 AM	44.3	66.6	39.8	
10:00 AM - 11:00 AM	42.3	64.3	37.4	
11:00 AM - 12:00 PM	41.8	66.4	36.3	
12:00 PM - 01:00 PM	44.2	64.6	34.2	
Leq Average 24 hrs. (dB(A))	59.3			
Lmax (dB(A))		92.8		
L90 (dB(A))			43.0	
Ldn (dB(A))	69.2			
Standard (dB(A))	70	115		
Reference Method : ISO1996-1 and 1996-2				
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป				
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงกรรมาน และระดับเสียงที่ไม่ได้จากการประกอบกิจการ				
โรงงาน พ.ศ. 2548				

Technical Management

Scientist (3)

Approved by

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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	

Technical Management Scientist (3) **Approved by** Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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))
02:00 PM - 03:00 PM		46.3	70.0
03:00 PM - 04:00 PM		45.8	75.1
04:00 PM - 05:00 PM		47.0	67.7
05:00 PM - 06:00 PM		46.8	70.5
06:00 PM - 07:00 PM		45.8	63.7
07:00 PM - 08:00 PM		51.1	58.9
08:00 PM - 09:00 PM		52.9	56.5
09:00 PM - 10:00 PM		52.7	71.1
10:00 PM - 11:00 PM		52.6	69.1
11:00 PM - 12:00 AM		51.5	57.6
12:00 AM - 01:00 AM		50.8	53.8
01:00 AM - 02:00 AM		49.7	66.2
02:00 AM - 03:00 AM		50.4	58.9
03:00 AM - 04:00 AM		49.7	56.4
04:00 AM - 05:00 AM		49.5	57.4
05:00 AM - 06:00 AM		49.8	71.5
06:00 AM - 07:00 AM		49.9	71.9
07:00 AM - 08:00 AM		51.3	78.0
08:00 AM - 09:00 AM		47.5	70.0
09:00 AM - 10:00 AM		51.2	71.0
10:00 AM - 11:00 AM		50.7	66.8
11:00 AM - 12:00 PM		44.2	64.4
12:00 PM - 01:00 PM		42.5	61.3
01:00 PM - 02:00 PM		44.1	69.4
			39.9
			39.9
			41.1
			40.4
			41.2
			42.9
			50.9
			50.9
			51.4
			50.2
			49.9
			48.5
			49.4
			48.3
			47.5
			47.3
			44.1
			41.6
			40.4
			44.4
			41.1
			38.5
			37.5
			38.2

Technical Management Scientist (3) **Approved by** Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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: 3395850-1

Sample Number		2576285-11		
Parameter		Air Quality		
Location		Ban Khao Mor (GPS 47Q 0675703, 1804307)		
Measurement Date		Aug 22 - Aug 23, 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		43.9	68.1	37.5
03:00 PM - 04:00 PM		45.4	66.7	38.8
04:00 PM - 05:00 PM		45.9	74.2	38.5
05:00 PM - 06:00 PM		49.5	67.4	40.4
06:00 PM - 07:00 PM		51.5	66.4	47.5
07:00 PM - 08:00 PM		53.5	69.5	46.2
08:00 PM - 09:00 PM		49.0	72.5	46.3
09:00 PM - 10:00 PM		46.0	66.4	38.2
10:00 PM - 11:00 PM		46.0	66.4	38.4
11:00 PM - 12:00 AM		47.5	66.9	41.1
12:00 AM - 01:00 AM		46.5	68.8	40.5
01:00 AM - 02:00 AM		46.3	72.3	37.8
02:00 AM - 03:00 AM		54.7	72.4	51.0
03:00 AM - 04:00 AM		52.5	57.1	50.8
04:00 AM - 05:00 AM		50.7	59.0	49.7
05:00 AM - 06:00 AM		49.9	56.9	48.9
06:00 AM - 07:00 AM		54.4	85.1	47.6
07:00 AM - 08:00 AM		67.1	87.1	55.5
08:00 AM - 09:00 AM		45.4	70.7	37.9
09:00 AM - 10:00 AM		42.4	64.1	37.9
10:00 AM - 11:00 AM		44.0	62.2	38.5
11:00 AM - 12:00 PM		45.3	76.2	37.1
12:00 PM - 01:00 PM		43.4	62.7	36.9
01:00 PM - 02:00 PM		43.9	69.2	37.0

Technical Management **Approved by** **Scientist (3)** **Section Head**



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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

Technical Management **Approved by** **Scientist (3)** **Section Head**



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thaplor, 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: 3395852-1

Sample Number		2576285-13		
Parameter		Air Quality		
Location		Ban Khao Mor (GPS 47Q 0675703, 1804307)		
Measurement Date		Aug 24 - Aug 25, 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		45.7	66.1	37.9
03:00 PM - 04:00 PM		45.7	66.1	38.1
04:00 PM - 05:00 PM		47.2	66.6	40.8
05:00 PM - 06:00 PM		46.2	68.5	40.2
06:00 PM - 07:00 PM		49.4	74.7	40.3
07:00 PM - 08:00 PM		50.2	66.4	48.2
08:00 PM - 09:00 PM		50.0	62.4	48.4
09:00 PM - 10:00 PM		52.2	66.2	49.3
10:00 PM - 11:00 PM		49.9	65.9	48.9
11:00 PM - 12:00 AM		49.8	71.5	45.6
12:00 AM - 01:00 AM		64.9	83.6	51.7
01:00 AM - 02:00 AM		52.5	65.9	51.6
02:00 AM - 03:00 AM		50.7	57.5	49.8
03:00 AM - 04:00 AM		50.3	70.8	48.9
04:00 AM - 05:00 AM		52.4	65.5	51.4
05:00 AM - 06:00 AM		52.4	64.4	50.4
06:00 AM - 07:00 AM		51.0	72.3	47.0
07:00 AM - 08:00 AM		49.9	70.5	44.1
08:00 AM - 09:00 AM		46.4	69.6	41.4
09:00 AM - 10:00 AM		46.3	67.4	39.7
10:00 AM - 11:00 AM		43.9	69.7	38.5
11:00 AM - 12:00 PM		44.7	69.7	38.5
12:00 PM - 01:00 PM		42.2	63.4	37.9
01:00 PM - 02:00 PM		42.6	62.8	38.5

Technical Management Scientist (3) Approved by Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thaplor, 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: 3395851-1

Sample Number		2576285-12		
Parameter		Air Quality		
Location		Ban Khao Mor (GPS 47Q 0675703, 1804307)		
Measurement Date		Aug 23 - Aug 24, 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		45.0	71.7	37.2
03:00 PM - 04:00 PM		44.9	67.1	38.0
04:00 PM - 05:00 PM		46.4	67.7	39.9
05:00 PM - 06:00 PM		47.3	70.0	40.6
06:00 PM - 07:00 PM		49.0	70.2	41.6
07:00 PM - 08:00 PM		49.8	69.2	46.4
08:00 PM - 09:00 PM		47.7	68.2	45.6
09:00 PM - 10:00 PM		49.1	66.3	47.6
10:00 PM - 11:00 PM		49.4	56.8	48.3
11:00 PM - 12:00 AM		49.1	61.3	47.7
12:00 AM - 01:00 AM		49.2	53.9	48.4
01:00 AM - 02:00 AM		48.6	54.0	47.6
02:00 AM - 03:00 AM		47.9	55.4	47.2
03:00 AM - 04:00 AM		48.2	57.1	47.4
04:00 AM - 05:00 AM		48.2	55.3	47.6
05:00 AM - 06:00 AM		50.7	73.2	46.0
06:00 AM - 07:00 AM		51.1	72.0	45.6
07:00 AM - 08:00 AM		48.2	71.8	41.2
08:00 AM - 09:00 AM		44.5	63.0	39.7
09:00 AM - 10:00 AM		46.8	69.5	38.9
10:00 AM - 11:00 AM		45.1	70.4	37.6
11:00 AM - 12:00 PM		42.1	63.8	37.6
12:00 PM - 01:00 PM		43.7	61.9	38.2
01:00 PM - 02:00 PM		46.0	72.0	37.5

Technical Management Scientist (3) Approved by Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkr, Phidit Thailand 66230

Lot ID: 2576285
Date Received : Aug 28, 2025
Date Reported : Sep 01, 2025
Report Number: 3395853-1

P/O : 1001947

Project Name : Air Test

Project Location :

Page 1 of 1

Sample Number	2576285-14
Parameter	Air Quality
Location	Ban Khao Mor (GPS 47Q 0675703, 1804307)
Measurement Date	Aug 25 - Aug 26, 2025
Measurement by	Jatsarawut Pattana
Sound Level meter	Serial No. 597159

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
02:00 PM - 03:00 PM	45.5	67.6	38.7
03:00 PM - 04:00 PM	44.9	69.1	38.5
04:00 PM - 05:00 PM	46.4	67.7	39.8
05:00 PM - 06:00 PM	46.9	75.2	39.5
06:00 PM - 07:00 PM	50.5	68.4	41.4
07:00 PM - 08:00 PM	52.5	67.4	48.5
08:00 PM - 09:00 PM	54.5	70.5	47.2
09:00 PM - 10:00 PM	50.0	73.5	47.3
10:00 PM - 11:00 PM	55.7	73.4	52.0
11:00 PM - 12:00 AM	53.5	58.1	51.8
12:00 AM - 01:00 AM	51.7	60.0	50.7
01:00 AM - 02:00 AM	50.9	57.9	49.9
02:00 AM - 03:00 AM	55.4	86.1	48.6
03:00 AM - 04:00 AM	66.1	88.1	56.5
04:00 AM - 05:00 AM	54.6	59.4	53.5
05:00 AM - 06:00 AM	52.3	66.0	48.6
06:00 AM - 07:00 AM	57.6	92.8	46.7
07:00 AM - 08:00 AM	50.9	72.6	46.8
08:00 AM - 09:00 AM	51.5	70.0	46.1
09:00 AM - 10:00 AM	47.3	63.2	43.3
10:00 AM - 11:00 AM	45.8	68.6	39.8
11:00 AM - 12:00 PM	47.7	66.1	39.1
12:00 PM - 01:00 PM	45.6	68.4	39.6
01:00 PM - 02:00 PM	47.5	65.9	38.9

Leq Average 24 hrs. (dB(A))	56.2
Lmax (dB(A))	92.8
L90 (dB(A))	46.7
Ldn (dB(A))	65.7
Standard (dB(A))	70
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Approved by

Scientist (3)

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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

Technical Management **Approved by** **Section Head**
Scientist (3)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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

Technical Management **Approved by** **Section Head**
Scientist (3)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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: 3395857-1

Sample Number	2576285-18
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Aug 22 - Aug 23, 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	56.9	68.7	43.5
05:00 PM - 06:00 PM	47.6	71.9	40.9
06:00 PM - 07:00 PM	46.5	69.3	41.8
07:00 PM - 08:00 PM	62.5	91.3	46.6
08:00 PM - 09:00 PM	48.4	67.5	45.2
09:00 PM - 10:00 PM	48.2	70.6	44.3
10:00 PM - 11:00 PM	50.3	74.0	44.3
11:00 PM - 12:00 AM	49.8	70.0	45.2
12:00 AM - 01:00 AM	52.8	74.7	48.4
01:00 AM - 02:00 AM	48.0	69.8	44.7
02:00 AM - 03:00 AM	48.8	71.3	45.5
03:00 AM - 04:00 AM	51.8	64.5	46.9
04:00 AM - 05:00 AM	55.9	75.8	47.0
05:00 AM - 06:00 AM	61.6	74.1	45.9
06:00 AM - 07:00 AM	60.6	73.5	43.6
07:00 AM - 08:00 AM	54.4	75.5	44.5
08:00 AM - 09:00 AM	51.2	69.3	42.2
09:00 AM - 10:00 AM	47.7	66.3	42.6
10:00 AM - 11:00 AM	45.9	65.4	40.9
11:00 AM - 12:00 PM	46.9	70.7	40.5
12:00 PM - 01:00 PM	42.2	63.0	36.9
01:00 PM - 02:00 PM	47.2	68.6	39.4
02:00 PM - 03:00 PM	43.5	63.1	38.4
03:00 PM - 04:00 PM	41.9	59.7	37.8
Leq Average 24 hrs. (dB(A))	54.5		
Lmax (dB(A))	91.3		43.6
L90 (dB(A))			
Ldn (dB(A))	62.2		
Standard (dB(A))	70	115	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548		

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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	42.8
L90 (dB(A))			
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) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548		

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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: 3395859-1

Page 1 of 1

Sample Number		2576285-20		
Parameter		Air Quality		
Location		Ban Long Du (GPS 47Q 0672008, 1799066)		
Measurement Date		Aug 24 - Aug 25, 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		48.4	76.1	41.7
05:00 PM - 06:00 PM		46.8	69.3	41.2
06:00 PM - 07:00 PM		44.6	62.9	39.8
07:00 PM - 08:00 PM		46.2	62.7	42.6
08:00 PM - 09:00 PM		45.6	59.7	44.5
09:00 PM - 10:00 PM		46.6	64.2	45.0
10:00 PM - 11:00 PM		47.0	65.6	44.6
11:00 PM - 12:00 AM		45.4	68.3	43.5
12:00 AM - 01:00 AM		52.5	86.0	41.0
01:00 AM - 02:00 AM		55.4	76.7	43.8
02:00 AM - 03:00 AM		43.9	77.6	41.7
03:00 AM - 04:00 AM		47.5	63.9	41.3
04:00 AM - 05:00 AM		57.2	66.3	52.2
05:00 AM - 06:00 AM		52.6	78.5	43.8
06:00 AM - 07:00 AM		51.3	81.3	43.6
07:00 AM - 08:00 AM		47.7	66.6	42.7
08:00 AM - 09:00 AM		49.2	70.4	43.4
09:00 AM - 10:00 AM		49.9	73.3	43.8
10:00 AM - 11:00 AM		47.5	72.2	42.7
11:00 AM - 12:00 PM		48.0	68.7	39.7
12:00 PM - 01:00 PM		45.1	65.1	39.5
01:00 PM - 02:00 PM		44.9	68.9	39.3
02:00 PM - 03:00 PM		43.2	60.5	38.5
03:00 PM - 04:00 PM		46.2	59.9	40.5

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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: 3395858-1

Page 1 of 1

Sample Number		2576285-19		
Parameter		Air Quality		
Location		Ban Long Du (GPS 47Q 0672008, 1799066)		
Measurement Date		Aug 23 - Aug 24, 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		45.7	68.9	39.8
05:00 PM - 06:00 PM		46.9	71.3	41.7
06:00 PM - 07:00 PM		47.0	68.0	41.1
07:00 PM - 08:00 PM		44.6	68.1	41.0
08:00 PM - 09:00 PM		44.9	65.9	43.3
09:00 PM - 10:00 PM		47.0	69.5	44.5
10:00 PM - 11:00 PM		50.3	72.5	45.7
11:00 PM - 12:00 AM		45.2	56.6	44.0
12:00 AM - 01:00 AM		45.2	69.5	43.3
01:00 AM - 02:00 AM		47.6	70.5	42.0
02:00 AM - 03:00 AM		43.2	62.7	41.4
03:00 AM - 04:00 AM		47.1	63.7	43.4
04:00 AM - 05:00 AM		57.1	68.4	49.9
05:00 AM - 06:00 AM		46.3	66.0	42.0
06:00 AM - 07:00 AM		49.6	75.1	42.2
07:00 AM - 08:00 AM		47.2	78.8	40.0
08:00 AM - 09:00 AM		46.3	67.5	39.4
09:00 AM - 10:00 AM		44.6	66.1	39.1
10:00 AM - 11:00 AM		46.6	70.7	39.2
11:00 AM - 12:00 PM		46.6	64.0	41.0
12:00 PM - 01:00 PM		45.9	66.7	40.9
01:00 PM - 02:00 PM		44.2	64.5	39.7
02:00 PM - 03:00 PM		42.4	62.7	38.4
03:00 PM - 04:00 PM		46.8	69.3	38.9

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutluk, Amphur Thapkr, 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: 3395860-1

Sample Number	2576285-21
Parameter	Air Quality
Location	Ban Long Du (GPS 47Q 0672008, 1799066)
Measurement Date	Aug 25 - Aug 26, 2025
Measurement by	Jatsarawut Pattana
Sound Level meter	Serial No. 597156

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
04:00 PM - 05:00 PM	48.2	68.8	42.4
05:00 PM - 06:00 PM	48.5	74.7	41.8
06:00 PM - 07:00 PM	47.9	68.4	42.7
07:00 PM - 08:00 PM	47.8	68.7	44.4
08:00 PM - 09:00 PM	48.0	63.1	45.7
09:00 PM - 10:00 PM	47.5	68.7	44.0
10:00 PM - 11:00 PM	52.0	75.1	47.6
11:00 PM - 12:00 AM	53.4	76.2	48.8
12:00 AM - 01:00 AM	47.9	63.6	43.9
01:00 AM - 02:00 AM	49.3	71.9	44.2
02:00 AM - 03:00 AM	45.7	65.4	43.7
03:00 AM - 04:00 AM	57.2	79.3	42.9
04:00 AM - 05:00 AM	56.2	70.9	50.3
05:00 AM - 06:00 AM	55.0	79.4	47.3
06:00 AM - 07:00 AM	50.1	69.4	45.0
07:00 AM - 08:00 AM	61.1	75.8	42.7
08:00 AM - 09:00 AM	45.4	62.2	40.7
09:00 AM - 10:00 AM	47.7	71.2	40.6
10:00 AM - 11:00 AM	46.9	73.2	41.7
11:00 AM - 12:00 PM	46.2	66.2	40.4
12:00 PM - 01:00 PM	46.3	75.8	39.2
01:00 PM - 02:00 PM	45.0	62.5	37.9
02:00 PM - 03:00 PM	46.5	78.1	39.3
03:00 PM - 04:00 PM	45.6	66.8	38.7

Leq Average 24 hrs. (dB(A))	52.1
Lmax (dB(A))	79.4
L90 (dB(A))	42.7
Ldn (dB(A))	59.5
Standard (dB(A))	70
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงกรรมกร และระดับเสียงที่ได้จากการประกอบกิจการ
โรงงาน พ.ศ. 2546

Technical Management

Scientist (3)

Approved by

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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	52.2	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		41.1
L90 (dB(A))			
Ldn (dB(A))	54.6		
Standard (dB(A))	70	115	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548		

Technical Management **Approved by** **Scientist (3)** **Section Head**



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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	40.6
L90 (dB(A))			
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) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548		

Technical Management **Approved by** **Scientist (3)** **Section Head**



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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: 3395864-1

Page 1 of 1

Sample Number				2576285-25					
Parameter				Air Quality					
Location				Ban Nong Ra Man (GPS 47Q 0674684, 1802590)					
Measurement Date				Aug 22 - Aug 23, 2025					
Measurement by				Jatsarawat Pattama					
Sound Level meter				Serial No. 858516					
Time				Leq (dB(A))		Lmax (dB(A))		L90 (dB(A))	
03:00 PM - 04:00 PM				52.3		81.8		39.9	
04:00 PM - 05:00 PM				50.6		67.5		43.3	
05:00 PM - 06:00 PM				50.5		71.5		40.9	
06:00 PM - 07:00 PM				47.4		74.0		39.3	
07:00 PM - 08:00 PM				54.1		79.1		42.3	
08:00 PM - 09:00 PM				47.0		64.8		43.0	
09:00 PM - 10:00 PM				46.5		62.5		42.7	
10:00 PM - 11:00 PM				46.7		55.4		45.3	
11:00 PM - 12:00 AM				47.1		65.1		39.6	
12:00 AM - 01:00 AM				48.1		66.2		38.2	
01:00 AM - 02:00 AM				47.1		67.4		36.6	
02:00 AM - 03:00 AM				49.0		72.5		35.9	
03:00 AM - 04:00 AM				49.9		70.0		43.0	
04:00 AM - 05:00 AM				51.2		66.4		42.9	
05:00 AM - 06:00 AM				48.2		70.7		39.6	
06:00 AM - 07:00 AM				45.9		64.9		35.4	
07:00 AM - 08:00 AM				44.4		63.9		34.8	
08:00 AM - 09:00 AM				46.3		69.2		36.3	
09:00 AM - 10:00 AM				46.3		65.7		35.4	
10:00 AM - 11:00 AM				48.9		78.5		39.3	
11:00 AM - 12:00 PM				47.1		66.1		36.6	
12:00 PM - 01:00 PM				45.6		65.1		36.0	
01:00 PM - 02:00 PM				47.5		70.4		37.5	
02:00 PM - 03:00 PM				47.5		66.9		36.6	

Technical Management **Approved by** **Section Head**
Scientist (3)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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

Page 1 of 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		Jatsarawat 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

Technical Management **Approved by** **Section Head**
Scientist (3)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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: 3395866-1

Sample Number Parameter Location Measurement Date Measurement by Sound Level meter	2576285-27	
	Air Quality	
	Ban Nong Ra Man (GPS 47Q 0674684, 1802590)	
	Aug 24 - Aug 25, 2025	
	Jatsarawut Pattama	
	Serial No. 858516	

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochethuk, Amphur Thapkor, 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: 3395865-1

Sample Number		2576285-26		
Parameter		Air Quality		
Location		Ban Nong Ra Man (GPS 47Q 0674684, 1802590)		
Measurement Date		Aug 23 - Aug 24, 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		51.7	76.5	40.2
04:00 PM - 05:00 PM		52.3	77.9	41.5
05:00 PM - 06:00 PM		50.9	72.1	41.2
06:00 PM - 07:00 PM		50.5	68.0	43.5
07:00 PM - 08:00 PM		47.6	74.0	42.2
08:00 PM - 09:00 PM		46.7	69.8	41.2
09:00 PM - 10:00 PM		45.6	70.4	40.7
10:00 PM - 11:00 PM		43.2	61.3	40.3
11:00 PM - 12:00 AM		42.8	57.7	41.0
12:00 AM - 01:00 AM		42.4	66.0	40.0
01:00 AM - 02:00 AM		41.9	60.4	40.1
02:00 AM - 03:00 AM		43.3	67.0	39.9
03:00 AM - 04:00 AM		41.6	60.0	38.4
04:00 AM - 05:00 AM		45.3	62.9	39.1
05:00 AM - 06:00 AM		51.6	74.8	41.5
06:00 AM - 07:00 AM		52.8	71.6	43.0
07:00 AM - 08:00 AM		49.9	72.7	40.3
08:00 AM - 09:00 AM		48.7	68.0	38.4
09:00 AM - 10:00 AM		45.6	66.0	36.7
10:00 AM - 11:00 AM		46.4	66.6	37.2
11:00 AM - 12:00 PM		45.3	64.4	36.2
12:00 PM - 01:00 PM		60.5	80.4	38.6
01:00 PM - 02:00 PM		61.9	80.2	51.2
02:00 PM - 03:00 PM		49.2	73.3	40.1

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.

99 Moo 9, Tambon Khaochutluk, Amphur Thapkr, 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: 3395867-1

Page 1 of 1

Sample Number 2576285-28

Parameter Air Quality

Location Ban Nong Ra Man (GPS 47Q 0674684, 1802590)

Measurement Date Aug 25 - Aug 26, 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	51.3	73.6	41.4
04:00 PM - 05:00 PM	51.1	73.8	42.0
05:00 PM - 06:00 PM	53.4	81.8	40.5
06:00 PM - 07:00 PM	51.2	71.2	42.0
07:00 PM - 08:00 PM	49.2	71.7	43.0
08:00 PM - 09:00 PM	46.6	68.5	41.9
09:00 PM - 10:00 PM	51.1	74.2	47.3
10:00 PM - 11:00 PM	53.6	72.3	47.9
11:00 PM - 12:00 AM	49.1	60.2	48.3
12:00 AM - 01:00 AM	48.5	64.7	46.6
01:00 AM - 02:00 AM	47.3	67.6	44.7
02:00 AM - 03:00 AM	59.5	80.5	43.6
03:00 AM - 04:00 AM	65.4	83.1	60.4
04:00 AM - 05:00 AM	58.1	64.3	52.9
05:00 AM - 06:00 AM	53.6	72.2	46.0
06:00 AM - 07:00 AM	54.7	72.9	47.6
07:00 AM - 08:00 AM	51.7	65.9	45.5
08:00 AM - 09:00 AM	51.5	72.6	43.4
09:00 AM - 10:00 AM	50.9	79.6	42.0
10:00 AM - 11:00 AM	49.4	69.4	40.5
11:00 AM - 12:00 PM	50.7	72.6	38.4
12:00 PM - 01:00 PM	51.1	76.7	40.3
01:00 PM - 02:00 PM	49.7	70.9	40.0
02:00 PM - 03:00 PM	49.3	66.8	42.3
Leq Average 24 hrs. (dB(A))	55.1		
Lmax (dB(A))	83.1		43.0
L90 (dB(A))			
Ldn (dB(A))	64.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Technical Management

Approved by

Scientist (3)

Section Head



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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	38.4	36.6
09:00 AM - 10:00 AM	44.5	64.4	36.7
10:00 AM - 11:00 AM	43.8	63.9	35.1
11:00 AM - 12:00 PM	41.6	64.1	36.1
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) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548		

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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) เรื่องกำหนดมาตรฐานเสียงโดยทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการ โรงงาน พ.ศ. 2548		

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, 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: 3395871-1

Sample Number	2576285-32			
Parameter	Air Quality			
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)			
Measurement Date	Aug 22 - Aug 23, 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	40.0	58.7	34.4	
06:00 PM - 07:00 PM	45.8	65.7	36.5	
07:00 PM - 08:00 PM	60.9	80.4	48.9	
08:00 PM - 09:00 PM	51.6	63.5	47.7	
09:00 PM - 10:00 PM	51.9	62.1	48.6	
10:00 PM - 11:00 PM	54.5	67.7	51.5	
11:00 PM - 12:00 AM	56.2	67.5	54.0	
12:00 AM - 01:00 AM	56.3	67.7	52.6	
01:00 AM - 02:00 AM	57.0	65.7	54.8	
02:00 AM - 03:00 AM	55.2	63.0	51.7	
03:00 AM - 04:00 AM	52.8	65.2	50.4	
04:00 AM - 05:00 AM	64.2	71.7	52.7	
05:00 AM - 06:00 AM	69.3	72.2	67.4	
06:00 AM - 07:00 AM	58.9	73.1	50.1	
07:00 AM - 08:00 AM	53.7	67.4	47.2	
08:00 AM - 09:00 AM	48.0	66.1	42.0	
09:00 AM - 10:00 AM	44.7	65.2	38.9	
10:00 AM - 11:00 AM	43.9	62.7	36.6	
11:00 AM - 12:00 PM	47.3	76.0	35.4	
12:00 PM - 01:00 PM	43.6	67.8	34.8	
01:00 PM - 02:00 PM	42.0	68.0	35.1	
02:00 PM - 03:00 PM	48.9	74.6	36.3	
03:00 PM - 04:00 PM	56.8	87.1	36.7	
04:00 PM - 05:00 PM	49.2	79.1	34.0	

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaocheduk, Amphur Thapkor, Phichit Thailand 66230
P/O : 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))
05:00 PM - 06:00 PM		44.8	72.5
06:00 PM - 07:00 PM		43.1	67.3
07:00 PM - 08:00 PM		50.4	57.5
08:00 PM - 09:00 PM		50.7	65.5
09:00 PM - 10:00 PM		51.4	75.9
10:00 PM - 11:00 PM		53.2	66.6
11:00 PM - 12:00 AM		53.7	60.0
12:00 AM - 01:00 AM		50.6	56.8
01:00 AM - 02:00 AM		50.9	63.3
02:00 AM - 03:00 AM		50.2	60.5
03:00 AM - 04:00 AM		49.8	55.7
04:00 AM - 05:00 AM		50.1	58.0
05:00 AM - 06:00 AM		53.9	63.9
06:00 AM - 07:00 AM		53.7	72.6
07:00 AM - 08:00 AM		49.5	66.9
08:00 AM - 09:00 AM		48.0	79.0
09:00 AM - 10:00 AM		45.1	66.9
10:00 AM - 11:00 AM		45.5	69.3
11:00 AM - 12:00 PM		46.5	75.6
12:00 PM - 01:00 PM		48.2	82.9
01:00 PM - 02:00 PM		52.8	80.5
02:00 PM - 03:00 PM		44.6	65.3
03:00 PM - 04:00 PM		46.2	65.7
04:00 PM - 05:00 PM		47.8	64.8
Leq Average 24 hrs. (dB(A))		50.2	
Lmax (dB(A))			43.3
L90 (dB(A))			
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) เรื่องกำหนดมาตรฐานสิ่งแวดล้อมทั่วไป 2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดระดับเสียงการรบกวน และระดับเสียงที่ได้จากการประกอบกิจการโรงงาน พ.ศ. 2548	

Technical Management _____ **Approved by** _____
Scientist (3) _____ Section Head _____

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Analysis / Test Report

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochutuk, Amphur Thapkor, 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: 3395873-1

Page 1 of 1

Sample Number	2576285-34			
	Air Quality			
Parameter	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)			
Location	Aug 24 - Aug 25, 2025			
Measurement Date	Jatsarawut Pattama			
Measurement by	Serial No. 858520			
Sound Level meter				
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))	
05:00 PM - 06:00 PM	40.9	58.6	34.8	
06:00 PM - 07:00 PM	40.5	62.3	35.8	
07:00 PM - 08:00 PM	51.2	59.4	40.7	
08:00 PM - 09:00 PM	55.7	59.3	54.3	
09:00 PM - 10:00 PM	55.7	64.2	54.3	
10:00 PM - 11:00 PM	55.4	59.1	53.9	
11:00 PM - 12:00 AM	53.7	57.7	51.9	
12:00 AM - 01:00 AM	52.2	62.3	47.7	
01:00 AM - 02:00 AM	50.7	58.2	47.8	
02:00 AM - 03:00 AM	50.0	57.1	47.0	
03:00 AM - 04:00 AM	49.5	56.7	46.1	
04:00 AM - 05:00 AM	48.5	56.2	45.2	
05:00 AM - 06:00 AM	51.4	64.6	47.2	
06:00 AM - 07:00 AM	53.8	59.7	51.5	
07:00 AM - 08:00 AM	51.7	63.0	47.1	
08:00 AM - 09:00 AM	54.8	79.4	42.6	
09:00 AM - 10:00 AM	50.9	68.3	40.6	
10:00 AM - 11:00 AM	46.2	64.4	39.2	
11:00 AM - 12:00 PM	44.0	67.7	36.9	
12:00 PM - 01:00 PM	44.3	68.7	38.1	
01:00 PM - 02:00 PM	45.4	77.1	38.0	
02:00 PM - 03:00 PM	55.2	76.1	38.1	
03:00 PM - 04:00 PM	41.4	60.2	36.7	
04:00 PM - 05:00 PM	42.3	64.3	35.8	

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Page 1 of 1

Sample Number Parameter Location Measurement Date Measurement by Sound Level meter	2576285-33			
	Air Quality			
	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)			
	Aug 23 - Aug 24, 2025			
	Jatsarawut Pattama			
	Serial No. 858520			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	05:00 PM - 06:00 PM	41.8	62.3	34.2
	06:00 PM - 07:00 PM	44.6	66.6	37.1
	07:00 PM - 08:00 PM	50.6	62.5	47.1
08:00 PM - 09:00 PM	53.5	66.2	48.6	
09:00 PM - 10:00 PM	56.9	62.5	54.2	
10:00 PM - 11:00 PM	57.1	62.7	55.2	
11:00 PM - 12:00 AM	56.6	62.1	54.2	
12:00 AM - 01:00 AM	62.0	62.0	53.0	
01:00 AM - 02:00 AM	54.3	59.5	49.4	
02:00 AM - 03:00 AM	53.0	57.1	49.7	
03:00 AM - 04:00 AM	52.5	56.0	50.0	
04:00 AM - 05:00 AM	51.3	57.1	48.0	
05:00 AM - 06:00 AM	53.5	60.8	51.7	
06:00 AM - 07:00 AM	54.2	77.7	49.8	
07:00 AM - 08:00 AM	54.9	81.2	46.5	
08:00 AM - 09:00 AM	52.7	78.5	43.5	
09:00 AM - 10:00 AM	49.2	69.9	38.4	
10:00 AM - 11:00 AM	44.7	75.7	37.1	
11:00 AM - 12:00 PM	45.0	64.4	36.5	
12:00 PM - 01:00 PM	45.7	64.9	37.3	
01:00 PM - 02:00 PM	46.4	68.0	38.6	
02:00 PM - 03:00 PM	47.0	60.3	37.0	
03:00 PM - 04:00 PM	46.6	74.0	34.5	
04:00 PM - 05:00 PM	55.3	82.8	37.9	

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochitluk, Amphur Thapkr, 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: 3395874-1

Page 1 of 1

Sample Number	2576285-35
Parameter	Air Quality
Location	Ban Klong Sai Yang Rong (GPS 47Q 0676121, 1798820)
Measurement Date	Aug 25 - Aug 26, 2025
Measurement by	Jatsarawut Pattana
Sound Level meter	Serial No. 858520

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
05:00 PM - 06:00 PM	45.4	68.9	36.7
06:00 PM - 07:00 PM	43.7	59.7	37.4
07:00 PM - 08:00 PM	53.5	74.0	46.2
08:00 PM - 09:00 PM	55.3	63.8	53.0
09:00 PM - 10:00 PM	53.7	67.9	50.9
10:00 PM - 11:00 PM	57.7	70.2	52.2
11:00 PM - 12:00 AM	58.9	64.5	56.2
12:00 AM - 01:00 AM	59.1	64.7	57.2
01:00 AM - 02:00 AM	58.6	64.1	56.2
02:00 AM - 03:00 AM	64.2	71.6	57.9
03:00 AM - 04:00 AM	63.8	74.2	56.0
04:00 AM - 05:00 AM	53.3	59.1	50.0
05:00 AM - 06:00 AM	55.5	62.8	53.7
06:00 AM - 07:00 AM	56.2	79.7	51.8
07:00 AM - 08:00 AM	65.7	73.8	54.8
08:00 AM - 09:00 AM	62.7	72.4	53.4
09:00 AM - 10:00 AM	55.6	74.6	43.7
10:00 AM - 11:00 AM	52.9	72.2	41.4
11:00 AM - 12:00 PM	48.5	73.5	38.9
12:00 PM - 01:00 PM	45.8	63.5	38.5
01:00 PM - 02:00 PM	41.4	61.4	34.6
02:00 PM - 03:00 PM	56.3	64.0	55.0
03:00 PM - 04:00 PM	55.3	61.5	51.4
04:00 PM - 05:00 PM	55.0	59.1	51.7

Leq Average 24 hrs. (dB(A))	58.5
Lmax (dB(A))	79.7
L90 (dB(A))	51.7
Ldn (dB(A))	66.1
Standard (dB(A))	70
Standard (dB(A))	115

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

Technical Management

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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 : 1001925
Project Name : Water Project
Project Location : CHATREE

Lot ID: 2576080

Date Received : Aug 22, 2025

Date Reported : Aug 30, 2025

Report Number : 3381971-1

Page 1 of 4

Sample Number 2576080-1
Sampled Date Aug 21, 2025 3:20 PM
Sample Description Wastewater
Location WWAT6808
Date Analysis Commenced Aug 23, 2025
Condition of Sample Contained in six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic	mg/L	0.0003	0.0005	0.05	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
Copper	mg/L	0.0003	0.0005	0.15	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	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
Manganese	mg/L	0.0003	0.0005	0.21	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	<0.0005	In-house method : STM 05-007 based on United States Environmental Protection Agency, 2002, EPA Method 1631, Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.002	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.010	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	4.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Bangkok

Approved by

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

TESTING
No.0009

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001925
Project Name : Water Project
Project Location : CHATREE

Lot ID: 2576080

Date Received : Aug 22, 2025

Date Reported : Aug 30, 2025

Report Number : 3381971-1

Page 2 of 4

Sample Number : 2576080-1
Sampled Date : Aug 21, 2025 3:20 PM
Sample Description : Wastewater
Location : WWAT6808
Date Analysis Commenced : Aug 23, 2025
Condition of Sample : Contained in six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
COD	mg/L	-	25	67	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	10.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
pH at 25 degree C		-	-	8.7	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	31.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	5528	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	13	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	10.2	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 : 1001925
Project Name : Water Project
Project Location : CHATREE

Lot ID: 2576080

Date Received : Aug 22, 2025

Date Reported : Aug 30, 2025

Report Number : 3381971-1

Page 3 of 4

Sample Number	2576080-2
Sampled Date	Aug 21, 2025 3:00 PM
Sample Description	Wastewater
Location	WWBT6808
Date Analysis Commenced	Aug 23, 2025
Condition of Sample	Contained in six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic	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
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
Copper	mg/L	0.0003	0.0005	5.59	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Hexavalent Chromium	mg/L	0.01	0.04	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3500-Cr B	Bangkok
Lead	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
Manganese	mg/L	0.0003	0.0005	0.09	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
Nickel	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
Selenium	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
Trivalent Chromium *	mg/L	-	0.01	<0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.008	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	Bangkok
Water Testing						
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	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 : 1001925
Project Name : Water Project
Project Location : CHATREE

Lot ID: 2576080

Date Received : Aug 22, 2025

Date Reported : Aug 30, 2025

Report Number : 3381971-1

Page 4 of 4

Sample Number : 2576080-2
Sampled Date : Aug 21, 2025 3:00 PM
Sample Description : Wastewater
Location : WWBT6808
Date Analysis Commenced : Aug 23, 2025
Condition of Sample : Contained in six plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Water Testing						
COD	mg/L	-	25	89	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	35.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	Bangkok
pH at 25 degree C		-	-	9.6	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Bangkok
Temperature *	Degree C	-	-	32.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2550 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	5108	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Bangkok
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	22	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	35.5	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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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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- 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 : 1001925
Project Name : Water Project
Project Location : CHATREE

Lot ID: 2576081

Date Received : Aug 22, 2025
Date Reported : Aug 29, 2025
Report Number : 3381973-1

Page 1 of 1

Sample Number : 2576081-1
Sampled Date : Aug 22, 2025 8:45 AM
Sample Description : Em-WWTP
Location : Process
Date Analysis Commenced : Aug 22, 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
Microbiological Testing						
Fecal Coliform	MPN/100mL	-	-	<1.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Bangkok
Total Coliform	MPN/100mL	-	-	<1.8	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Bangkok

Remark :

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

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CERTIFICATE OF ANALYSIS

Client	Akara Resources Public Co., Ltd.	ALS Lot No.	2576056
Contact Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230	Date Samples Received	Aug 21, 2025 01:00 PM
Email	yaowanud@akararesources.com	Issue Date	Sep 05, 2025 10:29 PM
Telephone	0-5661-4500	Quote number	Q2448061(R2)
Facsimile	0-5661-4190	Project	CHATREE
		No. of samples received	25
		No. of samples analysed	25

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

General Comments

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

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

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Page : 1 of 9

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

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Senior Manager



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

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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

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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

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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

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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

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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

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Senior Manager



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	----	----	----

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 Senior Manager

CERTIFICATE OF ANALYSIS

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

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Page : 1 of 9

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

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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

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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

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**Analytical Results**

Client sample ID Client sampling date / time			SW6811ST16 10-Nov-25 25101837-8	SW6811ST17 12-Nov-25 25101837-9	SW6811ST18 12-Nov-25 25101837-10	SW6811ST20 12-Nov-25 25101837-11	SW6811ST21 11-Nov-25 25101837-12	SW6811ST22 10-Nov-25 25101837-13	SW6811ST23 10-Nov-25 25101837-14
Compound	LOR	Unit							
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

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**Analytical Results**

Client sample ID Client sampling date / time			SW6811ST27 12-Nov-25 25101837-15	SW6811ST28 11-Nov-25 25101837-16	SW6811ST29 12-Nov-25 25101837-17	SW6811ST30 12-Nov-25 25101837-18	SW6811ST31 11-Nov-25 25101837-19	SW6811ST33 11-Nov-25 25101837-20	SW6811ST36 12-Nov-25 25101837-21
Compound	LOR	Unit							
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

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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

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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	----	----

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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	----	----

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CERTIFICATE OF ANALYSIS

Client	Akara Resources Public Co., Ltd.	ALS Lot No.	25101839
Contact Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Pichit Thailand 66230	Date Samples Received	Nov 12, 2025 01:00 PM
Email	yaowanud@akararesources.com	Issue Date	Nov 22, 2025 12:18 AM
Telephone	0-5661-4500	Quote number	Q2448061(R2)
Facsimile	0-5661-4190	Project	CHATREE
		No. of samples received	24
		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 form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Page : 1 of 5

ALS Lot No. : 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

Senior Manager



Analytical Results

Client sample ID Client sampling date / time			GW6811ST13	GW6811ST15	GW6811ST18	GW6811ST21	GW6811ST22	GW6811ST23	RG68116672
			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

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Analytical Results

Client sample ID Client sampling date / time			RG6811690	RG6811691	RG6811692	RG6811693	RG68114017	RG68114018	RG68114020
			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



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



CERTIFICATE OF ANALYSIS

Client Akara Resources Public Co., Ltd.

ALS Lot No.

2576071

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

Date Samples Received Aug 20, 2025 12:00 PM
Issue Date Aug 29, 2025 09:30 AM

Email yaowanud@akararesources.com

Quote number Q2448061(R2)
Project CHATREE

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

No. of samples received 17
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

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

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

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Page : 1 of 4

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-N08

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u.30/71



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
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	----	%	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



Analytical Results

Client sample ID			MS68086654	MS68086655	MS68086656	----	----	----	----
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



CERTIFICATE OF ANALYSIS

Client Akara Resources Public Co., Ltd.

ALS Lot No.

2576072

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

Date Samples Received Aug 22, 2025 04:01 PM
Issue Date Aug 30, 2025 11:20 PM

Email yaowanud@akararesources.com

Quote number Q2448061(R2)
Project CHATREE

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

No. of samples received 30
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

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



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



Analytical Results

Client sample ID Client sampling date / time			TSF68085351 20-Aug-25	TSF68085249 20-Aug-25	TSF68086534 20-Aug-25	TSF68085332 20-Aug-25	TSF68085336 20-Aug-25	TSF68086691 19-Aug-25	TSF68085338 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



Analytical Results

Client sample ID Client sampling date / time			TSF68085339 19-Aug-25	TSF68086467 20-Aug-25	TSF68086468 20-Aug-25	TSF68086472 20-Aug-25	TSF68086473 20-Aug-25	TSF68086655 20-Aug-25	TSF68086656 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



Analytical Results

Client sample ID Client sampling date / time			TSF68086657 20-Aug-25	TSF68086658 20-Aug-25	TSF68086659 20-Aug-25	TSF68086660 20-Aug-25	TSF68086661 20-Aug-25	TSF68086662 20-Aug-25	TSF68086663 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



Analytical Results

Client sample ID Client sampling date / time			TSF68086664 20-Aug-25	6808DC2 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	-----	-----	-----	-----	-----	-----



CERTIFICATE OF ANALYSIS

Client **Akara Resources Public Co., Ltd.**

ALS Lot No.

2576065

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

Date Samples Received
Issue Date

Aug 20, 2025 12:00 PM
Aug 29, 2025 09:31 AM

Email
yaowanud@akararesources.com

Quote number
Project

Q2448061(R2)
CHATREE

Telephone
Facsimile

0-5661-4500
0-5661-4190

No. of samples received
No. of samples analysed

24
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 form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Page : 1 of 5

ALS Lot No. : 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-N08

u.30/76



Analytical Results

Client sample ID Client sampling date / time			GW6808ST12	GW6808ST13	GW6808ST15	GW6808ST18	GW6808ST20	GW6808ST21	GW6808ST22
			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
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	----	%	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



Analytical Results

Client sample ID Client sampling date / time			RG68086672	RG6808690	RG6808691	RG6808692	RG6808693	RG68084017	RG68084018
			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

**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	----	----	----	----

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Senior Manager



MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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Sample Number 25101841-1
Sample 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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	2.7	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B					
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)					
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Ionic Balance	%	-	-	1.53	Bangkok
Calculated					
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Sulfate	mg/L	-	1.0	1664	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)					
Total Alkalinity as CaCO3	mg/L	-	1	86	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Total Anions	mEq/L	-	0.01	35.41	Bangkok
Total Cations	mEq/L	-	0.01	34.35	Bangkok
Calculated					
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1865	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C					
Total Hardness as CaCO3	mg/L	-	1	1586	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C					
Turbidity	NTU	-	0.1	110	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B					

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

Page 1 of 57

Sample Number 25101841-1
Sample 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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	0.001	0.004	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Calcium Dissolved	mg/L	-	0.10	455	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Cobalt Dissolved	mg/L	-	0.001	0.02	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Copper Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Iron Dissolved	mg/L	-	0.05	13.0	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Lead Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Magnesium Dissolved	mg/L	-	0.10	109	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Manganese Dissolved	mg/L	-	0.001	5.92	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Bangkok
Based on US EPA, Method 1631, Revision E					
Potassium Dissolved	mg/L	-	0.10	15.3	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Sodium Dissolved	mg/L	-	0.10	52.9	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	86	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Carbonte Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					

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n.30/79



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	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	-	28.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	<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	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	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	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	-	16.6	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	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	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.41	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	16.5	Based on US EPA, Method 200.7, Revision 4.4	Bangkok

Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	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	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 Khaochetuk, Amphur Thaplor, Pichit 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

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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	Result	Method	Testing Location
Water Testing					
Weak Acid Dissociable Cyanide	mg/L	-	<0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (1)	Bangkok

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

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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-2
Sampled Date Nov 11, 2025 3:44 PM
Sample Description Ground Water
Location M56811678
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 (1)	Bangkok

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

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This report shall not be reproduced or used 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 Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-2
Sampled Date Nov 11, 2025 3:44 PM
Sample Description Ground Water
Location M56811678
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-SC4 (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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

Page 8 of 57

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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	<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	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	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	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Sulfate	mg/L	-	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	-	106	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Total Anions	meq/L	-	3.57	Calculated	Bangkok
Total Cations	meq/L	-	4.26	Calculated	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	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	-	168	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	Bangkok
Turbidity	NTU	-	85	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 Khaochetuk, Amphur Thapklor, Pichit 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

Page 7 of 57

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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	<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	-	40.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	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	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	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	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	-	15.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	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	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	1.45	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	19.9	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	106	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonte Alkalinity as CaCO3	mg/L	-	<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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 10 of 57

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 Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Calcium Dissolved	mg/L	-	0.10	660		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

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Analysis / Test Report

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

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

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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 (1)	Bangkok

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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 12 of 57

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 (1)	Bangkok

Sampling By :

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

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Analysis / Test Report

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

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

Page 11 of 57

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-SC4 (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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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

Page 14 of 57

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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	2.5	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B					
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)					
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Ionic Balance	%	-	-	3.25	Bangkok
Calculated					
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Sulfate	mg/L	-	1.0	1535	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)					
Total Alkalinity as CaCO3	mg/L	-	1	349	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Total Anions	mEq/L	-	0.01	37.09	Bangkok
Total Cations	mEq/L	-	0.01	34.75	Bangkok
Calculated					
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1827	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C					
Total Hardness as CaCO3	mg/L	-	1	1625	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C					
Turbidity	NTU	-	0.1	7.4	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B					

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

Page 13 of 57

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

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Analysis / Test Report

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

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

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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 Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Calcium Dissolved	mg/L	-	0.10	56.7		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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 15 of 57

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 (1)	Bangkok

Sampling By :

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

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Sample Number 25101841-6
Sampled Date Nov 12, 2025 8:08 AM
Sample Description Ground Water
Location M568115997
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 (1)	Bangkok

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

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2344-41/ EMAIL S:\Reports\AL_NSGU-01 (10-20AM)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-6
Sampled Date Nov 12, 2025 8:08 AM
Sample Description Ground Water
Location M568115997
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-SC4 (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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2344-41/ EMAIL S:\Reports\AL_NSGU-01 (10-20AM)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	3.5	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B					
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)					
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Ionic Balance	%	-	-	13.00	Bangkok
Calculated					
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Sulfate	mg/L	-	1.0	28.4	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)					
Total Alkalinity as CaCO3	mg/L	-	1	238	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Total Anions	mEq/L	-	0.01	4.58	Bangkok
Calculated					
Total Cations	mEq/L	-	0.01	5.94	Bangkok
Calculated					
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	338	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C					
Total Hardness as CaCO3	mg/L	-	1	221	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C					
Turbidity	NTU	-	0.1	80	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B					

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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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 Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Calcium Dissolved	mg/L	-	0.10	64.2		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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 21 of 57

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 (1)	Bangkok

Sampling By :

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

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Analysis / Test Report

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

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

Page 24 of 57

Sample Number 25101841-8
Sampled Date Nov 12, 2025 8:49 AM
Sample Description Ground Water
Location M568116081
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 (1)	Bangkok

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

Page 23 of 57

Sample Number 25101841-8
Sampled Date Nov 12, 2025 8:49 AM
Sample Description Ground Water
Location M568116081
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-SC4 (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 Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number	25101841-9
Sample Date	Nov 12, 2025 8:47 AM
Sample Description	Ground Water
Location	M568116082
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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	2.0	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B					
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)					
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Ionic Balance	%	-	-	1.49	Bangkok
Calculated					
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Sulfate	mg/L	-	1.0	1086	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)					
Total Alkalinity as CaCO3	mg/L	-	1	147	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Total Anions	mEq/L	-	0.01	24.62	Bangkok
Total Cations	mEq/L	-	0.01	25.36	Bangkok
Calculated					
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	1568	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C					
Total Hardness as CaCO3	mg/L	-	1	1127	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C					
Turbidity	NTU	-	0.1	0.75	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B					

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

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Sample Number	25101841-9
Sample Date	Nov 12, 2025 8:47 AM
Sample Description	Ground Water
Location	M568116082
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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	0.001	0.002	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Calcium Dissolved	mg/L	-	0.10	277	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Cobalt Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Copper Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Iron Dissolved	mg/L	-	0.05	<0.05	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Lead Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Magnesium Dissolved	mg/L	-	0.10	96.0	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Manganese Dissolved	mg/L	-	0.001	0.13	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Bangkok
Based on US EPA, Method 1631, Revision E					
Potassium Dissolved	mg/L	-	0.10	2.81	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F					
Sodium Dissolved	mg/L	-	0.10	82.2	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	147	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Carbonte Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					

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Analysis / Test Report

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

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

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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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	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	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	<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	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	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	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	-	14.5	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	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	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	1.14	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	25.7	Based on US EPA, Method 200.7, Revision 4.4	Bangkok

Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	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	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 Khaochetuk, Amphur Thaplor, Pichit 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

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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	Result	Method	Testing Location
Water Testing					
Weak Acid Dissociable Cyanide	mg/L	-	0.002	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (1)	Bangkok

Sampling By :

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

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Analysis / Test Report

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

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

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Sample Number 25101841-10
Sampled Date Nov 12, 2025 9:07 AM
Sample Description Ground Water
Location M568116083
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 (1)	Bangkok

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

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Analysis / Test Report

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

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

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Sample Number 25101841-10
Sampled Date Nov 12, 2025 9:07 AM
Sample Description Ground Water
Location M568116083
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-SC4 (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.
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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

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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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Analysis / Test Report

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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

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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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-12
Sample 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 Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Calcium Dissolved	mg/L	-	0.10	102		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

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Analysis / Test Report

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

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

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Sample Number 25101841-11
Sample 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 (1)	Bangkok

Sampling By : Theeraphol Sangthong

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

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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

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Sample Number 25101841-12
Sampled Date Nov 10, 2025 2:44 PM
Sample Description Ground Water
Location M568116647
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 (1)	Bangkok

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

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Analysis / Test Report

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

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

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Sample Number 25101841-12
Sampled Date Nov 10, 2025 2:44 PM
Sample Description Ground Water
Location M568116647
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-SC4 (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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	2.0	Bangkok
				Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Ionic Balance	%	-	7.30		Bangkok
				Calculated	
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Sulfate	mg/L	-	1.0	55.0	Bangkok
				Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)	
Total Alkalinity as CaCO3	mg/L	-	1	132	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Total Anions	mEq/L	-	0.01	3.34	Bangkok
Total Cations	mEq/L	-	0.01	3.86	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	275	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	
Total Hardness as CaCO3	mg/L	-	1	167	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	
Turbidity	NTU	-	0.1	250	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	

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Scientist (3)



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

Page 37 of 57

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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Calcium Dissolved	mg/L	-	51.1		Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Cobalt Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Copper Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Iron Dissolved	mg/L	-	0.05	<0.05	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Lead Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Magnesium Dissolved	mg/L	-	9.69		Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Manganese Dissolved	mg/L	-	0.30		Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Mercury Dissolved	mg/L	-	<0.0001		Bangkok
				Based on US EPA, Method 1631, Revision E	
Potassium Dissolved	mg/L	-	2.12		Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Sodium Dissolved	mg/L	-	10.6		Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	132	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

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Sample Number 25101841-14
Sample 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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	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	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Cobalt Dissolved	mg/L	-	<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	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	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	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	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Manganese Dissolved	mg/L	-	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	Based on US EPA, Method 1631, Revision E	Bangkok
Potassium Dissolved	mg/L	-	0.10	Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Sodium Dissolved	mg/L	-	0.10	Based on US EPA, Method 200.7, Revision 4.4	Bangkok

Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	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	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 Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-13
Sample 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	Result	Method	Testing Location
Water Testing					
Weak Acid Dissociable Cyanide	mg/L	-	0.002	Based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 4500-CN (1)	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 Khaochetuk, Amphur Thaplor, Pichit 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

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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 (1)	Bangkok

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

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Analysis / Test Report

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

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

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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-SC4 (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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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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 Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-16
Sample 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 Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Calcium Dissolved	mg/L	-	0.10	148		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 Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-15
Sample 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 (1)	Bangkok

Sampling By :

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

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Analysis / Test Report

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

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

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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 (1)	Bangkok

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

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Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

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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-SC4 (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 Khaochetuk, Amphur Thapklor, Pichit 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

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Sample Number	25101841-17
Sample 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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	5.2	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B					
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)					
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Ionic Balance	%	-	-	10.86	Bangkok
Calculated					
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Sulfate	mg/L	-	1.0	104	Bangkok
Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)					
Total Alkalinity as CaCO3	mg/L	-	1	51	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Total Anions	mEq/L	-	0.01	3.10	Bangkok
Calculated					
Total Cations	mEq/L	-	0.01	3.86	Bangkok
Calculated					
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	335	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C					
Total Hardness as CaCO3	mg/L	-	1	152	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C					
Turbidity	NTU	-	0.1	110	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B					

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Analysis / Test Report

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99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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Sample Number	25101841-17
Sample 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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	0.001	0.004	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Calcium Dissolved	mg/L	-	0.10	15.3	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Cobalt Dissolved	mg/L	-	0.001	0.02	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Copper Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Iron Dissolved	mg/L	-	0.05	<0.05	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Lead Dissolved	mg/L	-	0.001	<0.001	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Magnesium Dissolved	mg/L	-	0.10	27.6	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Manganese Dissolved	mg/L	-	0.001	2.02	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B, 3030 F					
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Bangkok
Based on US EPA, Method 1631, Revision E					
Potassium Dissolved	mg/L	-	0.10	5.06	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Sodium Dissolved	mg/L	-	0.10	15.9	Bangkok
Based on US EPA, Method 200.7, Revision 4.4					
Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	51	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					
Carbonte Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B					

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-18
Sample 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 Based on US EPA, Method 200.7, Revision 4.4	Bangkok
Calcium Dissolved	mg/L	-	0.10	20.2		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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25101841-17
Sample 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 (1)	Bangkok

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

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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

Page 54 of 57

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 (1)	Bangkok

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

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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-SC4 (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

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99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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Sample Number	25101841-19
Sample 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	Result	Method	Testing Location
Water Testing					
Chloride	mg/L	-	1.0	2.7	Bangkok
				Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4110 B	
Cyanide as CN	mg/L	-	0.002	<0.002	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - CN (C, E)	
Hydroxide Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Ionic Balance	%	-	-	11.56	Bangkok
				Calculated	
Phenolphthalein Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Sulfate	mg/L	-	1.0	27.0	Bangkok
				Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-SO4 (E)	
Total Alkalinity as CaCO3	mg/L	-	1	142	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Total Anions	mEq/L	-	0.01	2.95	Bangkok
				Calculated	
Total Cations	mEq/L	-	0.01	3.72	Bangkok
				Calculated	
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	278	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	
Total Hardness as CaCO3	mg/L	-	1	156	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2340 C	
Turbidity	NTU	-	0.1	0.80	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2130 B	

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



Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thapklor, Pichit 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

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Sample Number	25101841-19
Sample 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	Result	Method	Testing Location
Metals Testing					
Arsenic Dissolved	mg/L	-	0.001	0.002	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Calcium Dissolved	mg/L	-	0.10	49.6	Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Cobalt Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Copper Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Iron Dissolved	mg/L	-	0.05	<0.05	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Lead Dissolved	mg/L	-	0.001	<0.001	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Magnesium Dissolved	mg/L	-	0.10	7.88	Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Manganese Dissolved	mg/L	-	0.001	0.40	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 3125 B,3030 F	
Mercury Dissolved	mg/L	-	0.0001	<0.0001	Bangkok
				Based on US EPA, Method 1631, Revision E	
Potassium Dissolved	mg/L	-	0.10	2.22	Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Sodium Dissolved	mg/L	-	0.10	12.3	Bangkok
				Based on US EPA, Method 200.7, Revision 4.4	
Water Testing					
Bicarbonate Alkalinity as CaCO3	mg/L	-	1	142	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	
Carbonate Alkalinity as CaCO3	mg/L	-	1	<1	Bangkok
				Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	

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Analysis / Test Report

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

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

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Sample Number 25101841-19
Sampled Date Nov 10, 2025 2:37 PM
Sample Description Ground Water
Location M568116666
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 (1)	Bangkok

Sampling By : T
Remark :
- LOD : Limit of Detection
- "L" : 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. This report shall not be reproduced or used in any form without the written approval of the laboratory.

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CERTIFICATE OF ANALYSIS

Client	Akara Resources Public Co., Ltd.	ALS Lot No.	25101845
Contact Address	99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Pichit Thailand 66230	Date Samples Received	Nov 15, 2025 01:00 PM
Email	yaowanud@akararesources.com	Issue Date	Nov 25, 2025 10:11 AM
Telephone	0-5661-4500	Quote number	Q2448061(R2)
Facsimile	0-5661-4190	Project	CHATREE
		No. of samples received	30
		No. of samples analysed	30

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

General Comments

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

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

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

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Page : 1 of 6

ALS Lot No. : 25101845
Client : Akara Resources Public Co., Ltd.
Project :



Analytical Results

Client sample ID			MS68115991	MS68115992	TSF6811663	TSF6811699	TSF6811991	TSF6811992	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

Senior Manager

MM-N08

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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



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



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



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



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: 2564785

Date Received : Jul 04, 2025
Date Reported : Jul 14, 2025
Report Number : 3353891-1

Page 1 of 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 :

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

Project Name : Water Project

Project Location :

Lot ID: 2586493

Date Received : Sep 12, 2025

Date Reported : Sep 20, 2025

Report Number : 3405938-1

Page 1 of 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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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

Page 1 of 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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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 :

Lot ID: 25112238

Date Received : Dec 15, 2025

Date Reported : Dec 24, 2025

Report Number : 3471895-1

Page 1 of 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

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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 :

Lot ID: 261038

Date Received : Jan 05, 2026

Date Reported : Jan 07, 2026

Report Number : 3482484-1

Page 1 of 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 :

Lot ID: 261038

Date Received : Jan 05, 2026

Date Reported : Jan 07, 2026

Report Number : 3482484-1

Page 1 of 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 :

- LOD : Limit of Detection
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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

Page 1 of 4

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)

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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

Page 2 of 4

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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

Page 3 of 4

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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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

Page 4 of 4

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)

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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

Page 1 of 4

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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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

Page 2 of 4

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

Page 3 of 4

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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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

Page 4 of 4

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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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

Page 1 of 8

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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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

Page 2 of 8

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

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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 CaCO ₃ *	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 CaCO ₃ *	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	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 CaCO ₃ *	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Nitrate as N *	mg/L	0.06	0.2	17.0	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ E	Bangkok
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	990	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phosphate as P *	mg/L	0.005	0.01	Not Detected	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Bangkok

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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

Page 4 of 8

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

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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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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

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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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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

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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 CaCO ₃ *	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 CaCO ₃ *	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Hardness as CaCO ₃ *	mg/L	-	1	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 CaCO ₃ *	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Nitrate as N *	mg/L	0.06	0.2	15.9	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ E	Bangkok
Non-Carbonate Hardness as CaCO ₃ *	mg/L	-	1	1237	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO ₃ *	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phosphate as P *	mg/L	0.005	0.01	Not Detected	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Bangkok

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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

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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

Approved by

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11.30/132



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 :

Lot ID: 25101872

Date Received : Nov 15, 2025

Date Reported : Nov 28, 2025

Report Number : 3443005-1

Page 1 of 8

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

Page 2 of 8

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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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

Page 3 of 8

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 CaCO ₃	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 CaCO ₃	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Hardness as CaCO ₃	mg/L	-	1	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 CaCO ₃	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Nitrate as N	mg/L	0.06	0.2	0.30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ E	Bangkok
Non-Carbonate Hardness as CaCO ₃	mg/L	-	1	1208	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO ₃	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phosphate as P	mg/L	0.005	0.01	Not Detected	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Bangkok

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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

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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 : Theeraphol Sangthong

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

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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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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

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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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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

Page 7 of 8

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 CaCO ₃	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 CaCO ₃	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Carbonate Hardness as CaCO ₃	mg/L	-	1	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 CaCO ₃	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Nitrate as N	mg/L	0.06	0.2	1.02	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-NO ₃ E	Bangkok
Non-Carbonate Hardness as CaCO ₃	mg/L	-	1	1242	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phenolphthalein Alkalinity as CaCO ₃	mg/L	-	1	<1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2320 B	Bangkok
Phosphate as P	mg/L	0.005	0.01	Not Detected	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-P (E)	Bangkok

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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

Page 8 of 8

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 : Theeraphol Sangthong

Remark :

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

Approved by

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11.30/140



Analysis / Test Report

ISO/IEC 17025
Accreditation No. 1031/47

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001921
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 2576077

Date Received : Aug 22, 2025
Date Reported : Aug 29, 2025
Report Number : 3381965-1

Page 1 of 2

Sample Number : 2576077-1
Sampled Date : Aug 21, 2025 3:00 PM
Sample Description : ปลา
Location : คลองสายยางรุ่ง
Date Analysis Commenced : Aug 25, 2025
Condition of Sample : Packed in one plastic bag and one plastic bottle, refrigerated (client container)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic	mg/kg	0.006	0.10	<0.10	In-house method, STM No.05-040 based on AOAC (2023) 2011.19	Bangkok
Manganese	mg/kg	0.02	0.20	7.11	In-house method, STM No.05-040 based on AOAC (2023) 2011.19	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

Approved by

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u.30/141



Analysis / Test Report

ISO/IEC 17025
Accreditation No. 1031/47

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetluk, Amphur Thapklor, Phichit Thailand 66230
P/O : 1001921
Project Name : Soil,Solid Wast,Plant, Fish, Food
Project Location :

Lot ID: 2576077

Date Received : Aug 22, 2025

Date Reported : Aug 29, 2025

Report Number : 3381965-1

Page 2 of 2

Sample Number : 2576077-2
Sampled Date : Aug 21, 2025 3:30 PM
Sample Description : ฟืชน้ำ
Location : คลองสายยางรัง
Date Analysis Commenced : Aug 23, 2025
Condition of Sample : Packed in one plastic bag, refrigerated (client container)

Analyte	Unit	LOD	LOQ (LOR)	Result	Method	Testing Location
Metals Testing						
Arsenic	mg/kg	0.001	0.10	0.41	In-house method, STM No.05-040 based on AOAC (2023) 2011.19	Bangkok
Manganese	mg/kg	0.02	0.20	352	In-house method, STM No.05-040 based on AOAC (2023) 2011.19	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 : 1001921

Project Name : Soil,Solid Wast,Plant, Fish, Food

Project Location :

Lot ID: 2576078

Date Received : Aug 22, 2025

Date Reported : Aug 30, 2025

Report Number : 3381967-1

Page 1 of 1

Sample Number 2576078-1
Sampled Date Aug 21, 2025 3:45 PM
Sample Description ตะกอนดิน
Location คลองสายยางรุ่ง
Date Analysis Commenced Aug 23, 2025
Condition of Sample Packed in one plastic bag and one plastic bottle, refrigerated (client container)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/kg	-	0.50	5.32	≤10	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Manganese	mg/kg	-	1.00	1560	No Standard	United States Environmental Protection Agency, EPA Method 3050 B and 6010 D	Bangkok
Physical Parameters							
Moisture	%	-	0.1	40.3	No Standard	In-house method based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 G	Bangkok

Guideline : Notification of The National Environmental Board B.E.2565, for protect benthic animals

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 : 1002033

Project Name : Air Test

Project Location :

Lot ID: 2576290

Date Received : Aug 22, 2025

Date Reported : Aug 26, 2025

Report Number: 3382356-1

Page 1 of 3

Sample Number 2576290-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Aug 21, 2025
Measurement by Pongvisit Charoenslip
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณวัชรระ ดอกแก้ว แผนก : ฝ่ายผลิตห้องทอง)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Gold Room Plant 1 : ห้องหลอมทอง	60	39.9	32.9	56.3	54.9
Gold Room Plant 1 : ห้องสังเกตการณ์พนักงาน	60	21.7	20.0	25.8	25.3
Average (WBGT)		30.8			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Approved by

Section Head

Assistant Manager



Analysis / Test Report

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

P/O : 1002033

Project Name : Air Test

Project Location :

Lot ID: 2576290

Date Received : Aug 22, 2025

Date Reported : Aug 26, 2025

Report Number: 3382356-1

Page 2 of 3

Sample Number 2576290-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Aug 21, 2025
Measurement by Pongvisit Charoenslip
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเคมสัน ขวัญแก้ว แผนก : ฝ่ายผลิตห้องทอง)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Gold Room Plant 2 : ห้องเตาหลอม	60	33.0	30.1	39.8	38.8
Gold Room Plant 2 : ห้องสังเกตการณ์พนักงาน	60	20.9	19.3	24.6	24.2
Average (WBGT)		27.0			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

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 : 1002033

Project Name : Air Test

Project Location :

Lot ID: 2576290

Date Received : Aug 22, 2025

Date Reported : Aug 26, 2025

Report Number: 3382356-1

Page 3 of 3

Sample Number 2576290-3
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Aug 21, 2025
Measurement by Pongvisit Charoenslip
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณกิจสดา โพธิ์ศรี แผนก : Lab)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Lab Assay Room 1	65	32.0	28.7	39.8	38.8
Lab Assay Room 1 : พื้นที่สำหรับเอกสาร	55	30.0	27.8	35.1	35.0
Average (WBGT)		31.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

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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 : 1002033

Project Name : Air Test

Project Location :

Lot ID: 25102499

Date Received : Nov 17, 2025

Date Reported : Nov 22, 2025

Report Number: 3444962-1

Page 1 of 3

Sample Number 25102499-1
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 13, 2025
Measurement by Somkiat Saosiri
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณศิริวิช พิบูลศิลป์ แผนก : Gold room)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Gold Room Plant 1 : ห้องหลอมทอง	60	29.1	26.9	34.1	33.4
Gold Room Plant 1 : ห้องสังเกตการณ์พนักงาน	60	20.0	19.0	22.2	21.4
Average (WBGT)		24.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Section Head

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Assistant Manager



Analysis / Test Report

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

P/O : 1002033

Project Name : Air Test

Project Location :

Lot ID: 25102499

Date Received : Nov 17, 2025

Date Reported : Nov 22, 2025

Report Number: 3444962-1

Page 2 of 3

Sample Number 25102499-2
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 13, 2025
Measurement by Somkiat Saosiri
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณเคมสันต์ ขวัญแก้ว แผนก : Gold room)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Gold Room Plant 2 : ห้องหลอมทอง	60	31.5	28.7	38.1	37.5
Gold Room Plant 2 : ห้องสังเกตการณ์พนักงาน	60	19.8	18.2	23.6	22.8
Average (WBGT)		25.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 1002033

Project Name : Air Test

Project Location :

Lot ID: 25102499

Date Received : Nov 17, 2025

Date Reported : Nov 22, 2025

Report Number: 3444962-1

Page 3 of 3

Sample Number 25102499-3
Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date Nov 14, 2025
Measurement by Somkiat Saosiri
Location ปฏิบัติงาน 2 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : คุณสมพร สอนราช แผนก : Lab assay)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Lab Assay Room 1	65	30.3	27.5	36.8	35.4
Lab Assay Room 1 : พื้นที่สำหรับทำเอกสาร	55	29.4	26.7	35.7	35.2
Average (WBGT)		29.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Section Head

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Assistant Manager



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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

Page 2 of 27

Sample Number	25102495-2								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	GOLD room plant 1								
Date Analysis Commenced	Nov 19, 2025								
Condition of Sample	Drawn into one filter paper placed in plastic cassette								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Metals Testing									
Lead	08:21 AM - 10:21 AM	mg/m3	-	0.002	<0.002	0.05	NIOSH (2003), 7301	MCL	Bangkok

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

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 Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

Page 1 of 27

Sample Number	25102495-1							
Sampled Date	Nov 13, 2025							
Sample Description	Air Quality							
Location	Laboratory room							
Date Analysis Commenced	Nov 19, 2025							
Condition of Sample	Drawn into one filter paper placed in plastic cassette							
Barometric Pressure	750 mmHg							
Atmospheric Temperature	30.2 °C							
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location
Metals Testing								
Lead	01:45 PM - 03:45 PM	mg/m3	-	0.002	0.003	0.05	NIOSH (2003), 7301	MOL Bangkok

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

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

Approved by

Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

Page 4 of 27

Sample Number	25102495-4								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	Laboratory Room								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one amber plastic bottle, refrigerated								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	30.2 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide	01:45 PM - 03:45 PM	ppm	-	0.10	<0.1	10	Based on NIOSH, P&CAM 116	MOL	Bangkok

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

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

Page 3 of 27

Sample Number	25102495-3								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	GOLD room plant 2								
Date Analysis Commenced	Nov 19, 2025								
Condition of Sample	Drawn into one amber plastic bottle, refrigerated								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Metals Testing									
Lead	08:30 AM - 10:30 AM	mg/m3	-	0.002	<0.002	0.05	NIOSH (2003), 7301	MOL	Bangkok

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

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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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

Remark :
- LOD : Limit of Detection
- "L" : 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. This report shall not be reproduced or used in any form without the written approval of the laboratory.

Approved by _____ Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Somkiat Saosiri

Remark :
- LOD : Limit of Detection
- "L" : 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. This report shall not be reproduced or used in any form without the written approval of the laboratory.

Approved by _____ Manager

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-8								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	Cyanide Tank Plant 2								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one amber plastic bottle, refrigerated								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide	09:00 AM - 11:00 AM	ppm	-	0.10	<0.1	10	Based on NIOSH, P&CAM 116	MOL	Bangkok

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-7								
Sampled Date	Nov 14, 2025								
Sample Description	Air Quality								
Location	Cyanide Tank Plant 1								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one amber plastic bottle, refrigerated								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	31.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide	08:10 AM - 10:10 AM	ppm	-	0.10	<0.1	10	Based on NIOSH, P&CAM 116	MOL	Bangkok

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

Remark :
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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-10									
Sampled Date	Nov 14, 2025									
Sample Description	Air Quality									
Location	CIP/CIL Tank Plant 2									
Date Analysis Commenced	Nov 18, 2025									
Condition of Sample	Drawn into one amber plastic bottle, refrigerated									
Barometric Pressure	750 mmHg									
Atmospheric Temperature	31.5 °C									
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location	
Air Testing										
Hydrogen cyanide	08:30 AM - 10:30 AM	ppm	-	0.10	0.4	10	Based on NIOSH, P&CAM 116	MOL	Bangkok	

Guideline :
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

Page 9 of 27

Sample Number	25102495-9								
Sampled Date	Nov 14, 2025								
Sample Description	Air Quality								
Location	CIP/CIL Tank Plant 1								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one amber plastic bottle, refrigerated								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	31.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen cyanide	08:10 AM - 10:10 AM	ppm	-	0.10	0.1	10	Based on NIOSH, P&CAM 116	MOL	Bangkok

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

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
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Sample Number	25102495-12								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	HCL Tank Plant 1								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one sorbent tube, refrigerated								
Barometric Pressure	120 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen chloride	09:18 AM - 11:18 AM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-11								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	Laboratory Room								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one sorbent tube, refrigerated								
Barometric Pressure	120 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen chloride	02:00 PM - 04:00 PM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
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Report Number : 3444952-1

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Sample Number	25102495-14								
Sampled Date	Nov 14, 2025								
Sample Description	Air Quality								
Location	Sodium Hydroxide Storage Tank plant 1								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one filter paper placed in plastic cassette								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Sodium hydroxide as NaOH	08:15 AM - 10:15 AM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok

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

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-13								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	HCL Tank Plant 2								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one sorbent tube, refrigerated								
Barometric Pressure	120 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Hydrogen chloride	09:00 AM - 11:00 AM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok

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

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
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Sample Number	25102495-16								
Sampled Date	Nov 11, 2025								
Sample Description	Air Quality								
Location	Process Persons 1								
Personal Sampling	การสุ่มตัวอย่างบุคคล								
Date Analysis Commenced	Nov 19, 2025								
Condition of Sample	Drawn into two filter paper placed in plastic cassettes								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	31.2 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	08:00 AM - 10:00 AM	mg/m3	-	0.15	0.17	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NNIAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Total dust	08:00 AM - 10:00 AM	mg/m3	-	0.15	0.78	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NNIAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok

Guideline :
OSHA : Occupational Safety and Health Administration
Sampled By : Somkiat Saosiri
Remark :
- LOD : Limit of Detection
- "L" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
Date Reported : Dec 12, 2025
Report Number : 3444952-1

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Sample Number	25102495-15								
Sampled Date	Nov 13, 2025								
Sample Description	Air Quality								
Location	Sodium Hydroxide Storage plant 2								
Date Analysis Commenced	Nov 18, 2025								
Condition of Sample	Drawn into one filter paper placed in plastic cassette								
Barometric Pressure	750 mmHg								
Atmospheric Temperature	32.3 °C								
Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Sodium hydroxide as NaOH	08:45 AM - 10:45 AM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Bangkok

Guideline :
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)
Sampled By : Somkiat Saosiri
Remark :
- LOD : Limit of Detection
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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
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Sample Number	25102495-18
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Maintenance 1
Personal Sampling	การสุ่มอากาศ
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Drawn into two filter paper placed in plastic cassettes
Barometric Pressure	750 mmHg
Atmospheric Temperature	31.5 °C
Analyte	
Air Testing	
Respirable Dust	02:00 PM - 04:00 PM mg/m3 - 0.15 0.21 5
Total dust	02:00 PM - 04:00 PM mg/m3 - 0.15 0.26 15
Guideline :	
Sampled By : Sonkiat Saosri	
Remark :	
- LOD : Limit of Detection	
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)	

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P/O : 1002033
Project Name : Air Test
Project Location :

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Sample Number	25102495-17
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Process Persons 2
Personal Sampling	การสุ่มอากาศ
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Drawn into two filter paper placed in plastic cassettes
Barometric Pressure	750 mmHg
Atmospheric Temperature	31.2 °C
Analyte	
Air Testing	
Respirable Dust	08:05 AM - 10:05 AM mg/m3 - 0.15 <0.15 5
Total dust	08:05 AM - 10:05 AM mg/m3 - 0.15 0.90 15
Guideline :	
Sampled By : Sonkiat Saosri	
Remark :	
- LOD : Limit of Detection	
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)	

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
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Sample Number	25102495-20
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Geo
Personal Sampling	การเก็บตัวอย่างอากาศ
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Drawn into two filter paper placed in plastic cassettes
Barometric Pressure	750 mmHg
Atmospheric Temperature	31.2 °C
Analyte	
Air Testing	
Respirable Dust	08:10 AM - 10:10 AM mg/m3 - 0.15 <0.15 5
Total dust	08:10 AM - 10:10 AM mg/m3 - 0.15 0.69 15
Guideline :	
Sampled By : Sonkiat Soosri	
Remark :	
- LOD : Limit of Detection	
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)	

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
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Report Number : 3444952-1

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Sample Number	25102495-19
Sampled Date	Nov 11, 2025
Sample Description	Air Quality
Location	Maintenance 2
Personal Sampling	การเก็บตัวอย่างอากาศ
Date Analysis Commenced	Nov 19, 2025
Condition of Sample	Drawn into two filter paper placed in plastic cassettes
Barometric Pressure	750 mmHg
Atmospheric Temperature	31.5 °C
Analyte	
Air Testing	
Respirable Dust	01:30 PM - 03:30 PM mg/m3 - 0.15 0.48 5
Total dust	01:30 PM - 03:30 PM mg/m3 - 0.15 0.99 15
Guideline :	
Sampled By : Sonkiat Soosri	
Remark :	
- LOD : Limit of Detection	
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)	

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
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Sample Number	25102495-22
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Gold Room Plant 1
Personal Sampling	การสุ่มตัวอย่าง
Date Analysis Commenced	Nov 18, 2025
Condition of Sample	Drawn into one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.3 °C
Analyte	
Air Testing	
Hydrogen cyanide	08:13 AM - 10:13 AM ppm - 0.10 <0.1 10 Based on NIOSH, P&CAM 116
Guideline :	
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)	
Sampled By : Sonkiat Saosiri	
Remark :	
- LOD : Limit of Detection	
- "%": Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)	
Testing Location	Bangkok

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
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Sample Number	25102495-21
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Laboratory Room
Personal Sampling	การสุ่มตัวอย่าง
Date Analysis Commenced	Nov 18, 2025
Condition of Sample	Drawn into one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.3 °C
Analyte	
Air Testing	
Hydrogen cyanide	01:50 PM - 03:50 PM ppm - 0.10 <0.1 10 Based on NIOSH, P&CAM 116
Guideline :	
MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)	
Sampled By : Sonkiat Saosiri	
Remark :	
- LOD : Limit of Detection	
- "%": Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)	
Testing Location	Bangkok

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Project Name : Air Test
Project Location :

Lot ID: 25102495
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Sample Number	25102495-24
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	CIP/CIL Tank Plant 1
Personal Sampling	อากาศในห้อง
Date Analysis Commenced	Nov 18, 2025
Condition of Sample	Drawn into one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.3 °C
Analyte	
Air Testing	
Hydrogen cyanide	09:20 AM - 11:20 AM ppm - 0.10 <0.1 10 Based on NIOSH, P&CAM 116

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

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

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Project Name : Air Test
Project Location :

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Sample Number	25102495-23
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	Gold Room Plant 2
Personal Sampling	อากาศในห้อง
Date Analysis Commenced	Nov 18, 2025
Condition of Sample	Drawn into one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.3 °C
Analyte	
Air Testing	
Hydrogen cyanide	08:34 AM - 10:34 AM ppm - 0.10 <0.1 10 Based on NIOSH, P&CAM 116

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

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

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
Date Received : Nov 17, 2025
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Sample Number	25102495-26
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	ISO Tank Cyanide Storage Area
Date Analysis Commenced	Nov 18, 2025
Condition of Sample	Drawn into one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.3 °C
Analyte	Sampled Date/Time Unit LOD LOQ (LOR) Result Guideline Limit Method Testing Location
Air Testing	Hydrogen cyanide 08:59 AM - 10:59 AM ppm - 0.10 <0.1 10 Based on NIOSH, P&CAM 116

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

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

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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102495
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Sample Number	25102495-25
Sampled Date	Nov 13, 2025
Sample Description	Air Quality
Location	CIP/CIL Tank Plant 2
Personal Sampling	การสุ่มอากาศส่วนบุคคล
Date Analysis Commenced	Nov 18, 2025
Condition of Sample	Drawn into one amber plastic bottle, refrigerated
Barometric Pressure	750 mmHg
Atmospheric Temperature	32.3 °C
Analyte	Sampled Date/Time Unit LOD LOQ (LOR) Result Guideline Limit Method Testing Location
Air Testing	Hydrogen cyanide 09:44 AM - 11:44 AM ppm - 0.10 <0.1 10 Based on NIOSH, P&CAM 116

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.

99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230

P/O : 1002033

Project Name : Air Test

Project Location :

Lot ID: 25102495

Date Received : Nov 17, 2025

Date Reported : Dec 12, 2025

Report Number : 3444952-1

Page 27 of 27

Sample Number 25102495-27

Sampled Date Nov 11, 2025

Sample Description Air Quality

Location Survey

Personal Sampling การสุ่มตัวอย่าง

Date Analysis Commenced Nov 19, 2025

Condition of Sample Drawn into two filter paper placed in plastic cassettes

Barometric Pressure 750 mmHg

Atmospheric Temperature 31.2 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Respirable Dust	12:30 PM - 02:30 PM	mg/m3	-	0.15	0.17	5	In - house method : STM 04-050 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0600, issue 3, 1998 (Include sampling)	OSHA	Bangkok
Total dust	12:30 PM - 02:30 PM	mg/m3	-	0.15	0.60	15	In - house method : STM 04-049 based on NIOSH Manual of Analytical Methods, 4th ed., NMAM, method 0500, issue 2, 1994 (Include sampling)	OSHA	Bangkok

Guideline :

OSHA : Occupational Safety and Health Administration

Sampled By : Somkiat Soosiri

Remark :

- LOD : Limit of Detection

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

Approved by

Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102498
Date Received : Nov 17, 2025
Date Reported : Nov 22, 2025
Report Number : 3444954-1

Page 2 of 5

Sample Number	25102498-2																	
Sampled Date	Nov 11, 2025																	
Sample Description	Noise Dose																	
Location	Process Persons 2																	
Personal Sampling	การสุ่มตัวอย่าง																	
Date Analysis Commenced	Nov 19, 2025																	
Analyte	Unit	Sampled Date/Time	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location									
Air Testing																		
Noise Dose (8 hrs.)	%	07:48 AM - 03:48 PM	-	1	27.5	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok									
TWA (8 hrs.)	dB(A)	07:48 AM - 03:48 PM	-	-	79.4	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok									

Guideline :
MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
Sampled By : Sonkiat Saosiri

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

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Assistant Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102498
Date Received : Nov 17, 2025
Date Reported : Nov 22, 2025
Report Number : 3444954-1

Page 1 of 5

Sample Number	25102498-1																	
Sampled Date	Nov 11, 2025																	
Sample Description	Noise Dose																	
Location	Process Persons 1																	
Personal Sampling	Sounded at factory																	
Date Analysis Commenced	Nov 19, 2025																	
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location									
Air Testing	Noise Dose (8 hrs.)	07:48 AM - 03:48 PM	%	-	1	33.1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok								
	TWA (8 hrs.)	07:48 AM - 03:48 PM	dB(A)	-	-	80.2	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok								

Guideline :
MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
Sampled By : Sonkiat Saosiri

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

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102498
Date Received : Nov 17, 2025
Date Reported : Nov 22, 2025
Report Number : 3444954-1

Page 4 of 5

Sample Number		25102498-4														
Sampled Date		Nov 11, 2025														
Sample Description		Noise Dose														
Location		Maintenance Persons 1														
Personal Sampling		บุคลากรช่างซ่อมบำรุง														
Date Analysis Commenced		Nov 19, 2025														
Analyte	Unit	Sampled Date/time	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location							
Air Testing																
Noise Dose (8 hrs.)	%	07:48 AM - 03:48 PM	-	1	24.6	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok							
TWA (8 hrs.)	dB(A)	07:48 AM - 03:48 PM	-	-	78.9	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok							

Guideline :
MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
Sampled By : Sonkiat Saosiri

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

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Assistant Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1002033
Project Name : Air Test
Project Location :

Lot ID: 25102498
Date Received : Nov 17, 2025
Date Reported : Nov 22, 2025
Report Number : 3444954-1

Page 3 of 5

Sample Number	25102498-3																
Sampled Date	Nov 11, 2025																
Sample Description	Noise Dose																
Location	Process Persons 3																
Personal Sampling	การสุ่มตัวอย่างเสียง																
Date Analysis Commenced	Nov 19, 2025																
Analyte	Unit	Sampled Date/time	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location								
Air Testing																	
Noise Dose (8 hrs.)	%	07:48 AM - 03:48 PM	-	1	63.1	No Standard	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok								
TWA (8 hrs.)	dB(A)	07:48 AM - 03:48 PM	-	-	83.0	85	MOL, Department Labour Protection and Welfare (B.E.2561)	MOL	Bangkok								

Guideline :
MOL : 1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)
Sampled By : Sonkiat Saosiri

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

Approved by _____
Assistant Manager

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.

99 Moo 9, Tambon Khaochetluk, Amphur Thaplor, Pichit Thailand 66230

P/O : 1002033

Project Name : Air Test

Project Location :

Lot ID: 25102498

Date Received : Nov 17, 2025

Date Reported : Nov 22, 2025

Report Number : 3444954-1

Page 5 of 5

Sample Number	25102498-5				
Sample Date	Nov 14, 2025				
Sample Description	Noise Dose				
Location	Maintenance Persons 2				
Personal Sampling	การสุ่มตัวอย่าง				
Date Analysis Commenced	Nov 19, 2025				
Analyte	Sampled Date/Time	Unit	LOD	LOQ (LOR)	Result
Air Testing					
Noise Dose (8 hrs.)	07:55 AM - 03:55 PM	%	-	1	16.2
					No Standard
TWA (8 hrs.)	07:55 AM - 03:55 PM	dB(A)	-	-	77.1
					85
					MOL, Department Labour Protection and Welfare (B.E.2561)
					MOL, Department Labour Protection and Welfare (B.E.2561)

Guideline :

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Notification of Department of Labour Protection and Welfare on the Standard of Time Weighted Average (TWA) Noise Level (B.E. 2561)

Sampled By : Somkiat Saosin

Remark :

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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 2 of 24

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 Hydrometer	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
- "c" : 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 Khaochetuk, Amphur Thaplor, Pichit 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

Page 1 of 24

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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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 4 of 24

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 Hydrometer	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
- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

Page 3 of 24

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	61.490	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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Manager

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

Page 6 of 24

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 Hydrometer	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
- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

Page 5 of 24

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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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25105239-4
Sampled Date Oct 14, 2025
Sample Description S44
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 Hydrometer	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
- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

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Sample Number 25105239-4
Sampled Date Oct 14, 2025
Sample Description S44
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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number	25105239-5
Sampled Date	Oct.17, 2025
Sample Description	SAS
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 Hydrometer	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 :
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- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 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

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Sample Number	25105239-5
Sampled Date	Oct 17, 2025
Sample Description	SAS
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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25105239-6
Sampled Date Oct 16, 2025
Sample Description S46
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 Hydrometer	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
- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

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Sample Number 25105239-6
Sampled Date Oct 16, 2025
Sample Description S46
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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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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 Hydrometer	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 :
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- "c" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

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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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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25105239-8
Sampled Date Oct 14, 2025
Sample Description S48
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 Hydrometer	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
- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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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

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Sample Number 25105239-8
Sampled Date Oct 14, 2025
Sample Description S48
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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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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Sample Number 25105239-9
Sampled Date Oct 14, 2025
Sample Description S49
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 Hydrometer	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
- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1001912
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received :Nov 15, 2025
Date Reported :Nov 28, 2025
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Sample Number 25105239-9
Sampled Date Oct 14, 2025
Sample Description S49
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	52.6	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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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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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 Hydrometer	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 :
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- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
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P/O : 1001912
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received :Nov 15, 2025
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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-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1001912
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received :Nov 15, 2025
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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 Hydrometer	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 :
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- "%_w" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Analysis / Test Report

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P/O : 1001912
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received :Nov 15, 2025
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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

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MM-N08

Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit 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

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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
Physical Parameters						
Moisture	%	-	0.1	2.1	In-house method based on Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023, part 2540 G Hydrometer	Bangkok
Sand	%	-	-	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 :
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Analysis / Test Report

Client : Akara Resources Public Co., Ltd.
99 Moo 9, Tambon Khaochetuk, Amphur Thaplor, Pichit Thailand 66230
P/O : 1001912
Project Name : Soil/Solid Wast.Plant, Fish, Food
Project Location :

Lot ID: 25105239
Date Received :Nov 15, 2025
Date Reported :Nov 28, 2025
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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

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