

# ภาคผนวก ง

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม



## ภาคผนวก ง-1

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพอากาศในบรรยากาศ



## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED  
**ADDRESS** : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**SAMPLING SOURCE** : บ้านบุญบันดาล  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR CHATCHAWAN LUEANLONG  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : OCTOBER 26, 2022  
**ANALYTICAL DATE** : OCTOBER 26-31, 2022  
**REPORT NO.** : 2022-U085643  
**WORK NO.** : 2021-001117  
**ANALYSIS NO.** : T22AV293-0001 - T22AV293-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านบุญบันดาล		
			* T22AV293-0001	** T22AV293-0002	*** T22AV293-0003
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.041	0.034	0.038
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.017	0.018
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
\* : SAMPLING FROM 10:00 HOUR ON OCTOBER 20, 2022 TO 10:00 HOUR ON OCTOBER 21, 2022.  
\*\* : SAMPLING FROM 10:00 HOUR ON OCTOBER 21, 2022 TO 10:00 HOUR ON OCTOBER 22, 2022.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON OCTOBER 22, 2022 TO 10:00 HOUR ON OCTOBER 23, 2022.

*Budsakorn* ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

NOVEMBER 2, 2022



## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : INSEE ECOCYCLE COMPANY LIMITED  
**ADDRESS** : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**MEASURING PLACE** : บ้านบุญบันดาล  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 20-23, 2022  
**MEASURING DATE** : OCTOBER 20-23, 2022 **ANALYTICAL DATE** : OCTOBER 20-23, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U085360  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-001117  
**MEASURED BY** : MR CHATCHAWAN LUEANLONG **ANALYSIS NO.** : T22AV293-0001 - T22AV293-0003

TIME *	RESULT (m/s)					
	บ้านบุญบันดาล					
	OCTOBER 20 - 21, 2022 T22AV293-0001		OCTOBER 21 - 22, 2022 T22AV293-0002		OCTOBER 22 - 23, 2022 T22AV293-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.9	NE	1.2	NNE	1.4	SE
08:00-09:00 HOUR	1.8	NNE	1.8	NNW	1.9	SSE
09:00-10:00 HOUR	2.7	NNW	2.5	N	1.9	SSE
10:00-11:00 HOUR	3.0	NNE	2.3	ENE	1.3	SE
11:00-12:00 HOUR	3.3	ENE	3.6	ESE	1.3	NNE
12:00-13:00 HOUR	2.6	NNE	3.0	NNE	0.9	ENE
13:00-14:00 HOUR	2.3	E	2.8	ENE	1.1	NNE
14:00-15:00 HOUR	2.5	ENE	2.3	ENE	1.3	NE
15:00-16:00 HOUR	1.8	NE	2.4	N	0.9	NE
16:00-17:00 HOUR	2.4	ESE	2.3	N	1.1	N
17:00-18:00 HOUR	1.6	NNE	2.4	ENE	1.3	E
18:00-19:00 HOUR	2.0	E	2.3	ENE	1.5	NE
19:00-20:00 HOUR	2.2	SSE	3.3	NE	1.2	ENE
20:00-21:00 HOUR	1.4	ENE	2.9	NNE	1.5	NNE
21:00-22:00 HOUR	1.4	NNE	2.0	E	1.3	N
22:00-23:00 HOUR	1.2	NNE	2.6	NE	1.9	NNE
23:00-00:00 HOUR	0.8	ENE	2.0	NNE	1.4	E
00:00-01:00 HOUR	0.8	NNE	1.5	N	1.9	ENE
01:00-02:00 HOUR	0.9	NNE	1.2	ENE	2.0	N
02:00-03:00 HOUR	0.8	ENE	1.0	ESE	2.1	NE
03:00-04:00 HOUR	1.1	ESE	0.9	NNE	2.2	ESE
04:00-05:00 HOUR	0.8	NNE	0.7	E	1.8	E
05:00-06:00 HOUR	0.9	ENE	1.0	ENE	2.5	SE
06:00-07:00 HOUR	1.0	NNW	1.5	SE	2.8	ENE



(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

OCTOBER 31, 2022





## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED  
**ADDRESS** : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**SAMPLING SOURCE** : บ้านชลประทาน  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR CHATCHAWAN LUEANLONG  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : OCTOBER 26, 2022  
**ANALYTICAL DATE** : OCTOBER 26-31, 2022  
**REPORT NO.** : 2022-U085645  
**WORK NO.** : 2021-001117  
**ANALYSIS NO.** : T22AV293-0004 - T22AV293-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านชลประทาน		
			* T22AV293-0004	** T22AV293-0005	*** T22AV293-0006
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.057	0.051	0.054
PARTICULATE MATTER ( $\leq 10 \mu\text{m}$ )	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.046	0.036	0.040
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
\* : SAMPLING FROM 10:30 HOUR ON OCTOBER 20, 2022 TO 10:30 HOUR ON OCTOBER 21, 2022.  
\*\* : SAMPLING FROM 10:30 HOUR ON OCTOBER 21, 2022 TO 10:30 HOUR ON OCTOBER 22, 2022.  
\*\*\* : SAMPLING FROM 10:30 HOUR ON OCTOBER 22, 2022 TO 10:30 HOUR ON OCTOBER 23, 2022.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

NOVEMBER 2, 2022



## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : INSEE ECOCYCLE COMPANY LIMITED  
**ADDRESS** : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**MEASURING PLACE** : บ้านชลประทาน  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 20-23, 2022  
**MEASURING DATE** : OCTOBER 20-23, 2022 **ANALYTICAL DATE** : OCTOBER 20-23, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U085361  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-001117  
**MEASURED BY** : MR CHATCHAWAN LUEANLONG **ANALYSIS NO.** : T22AV293-0004 - T22AV293-0006

TIME *	RESULT (m/s)					
	บ้านชลประทาน					
	OCTOBER 20 - 21, 2022 T22AV293-0004		OCTOBER 21 - 22, 2022 T22AV293-0005		OCTOBER 22 - 23, 2022 T22AV293-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.0	NE	2.6	SE	1.4	N
08:00-09:00 HOUR	1.5	N	2.9	NE	2.2	NE
09:00-10:00 HOUR	1.7	N	2.0	E	2.2	N
10:00-11:00 HOUR	1.3	NE	1.4	NE	2.1	NE
11:00-12:00 HOUR	1.8	ENE	1.4	NNE	2.6	ENE
12:00-13:00 HOUR	1.3	ENE	1.7	NNE	3.2	N
13:00-14:00 HOUR	1.9	NNE	1.4	E	2.9	NNE
14:00-15:00 HOUR	1.8	NW	1.3	NNE	3.5	NE
15:00-16:00 HOUR	1.7	NNW	1.5	N	2.3	NNE
16:00-17:00 HOUR	2.2	NW	1.2	NE	3.1	E
17:00-18:00 HOUR	1.9	NW	1.9	NNW	2.2	ENE
18:00-19:00 HOUR	2.2	N	1.9	NW	2.3	ENE
19:00-20:00 HOUR	1.4	N	1.7	NW	2.7	ENE
20:00-21:00 HOUR	1.4	NNE	1.8	N	2.1	E
21:00-22:00 HOUR	2.5	E	2.0	NNE	1.9	E
22:00-23:00 HOUR	2.0	N	1.9	NNW	2.0	E
23:00-00:00 HOUR	2.6	NE	1.8	NE	1.8	NNE
00:00-01:00 HOUR	3.5	E	1.8	NE	1.7	ENE
01:00-02:00 HOUR	3.4	ESE	1.0	NNE	1.1	NE
02:00-03:00 HOUR	2.2	ENE	1.2	N	1.0	NNE
03:00-04:00 HOUR	2.4	ESE	0.8	N	1.1	NE
04:00-05:00 HOUR	2.5	NNE	1.0	NNW	1.3	E
05:00-06:00 HOUR	3.4	ENE	1.0	NNE	2.0	SE
06:00-07:00 HOUR	3.6	NE	1.2	ENE	1.9	ESE



(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

OCTOBER 31, 2022



## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED  
**ADDRESS** : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKROI SARABURI 18260  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**SAMPLING SOURCE** : บ้านเขาพระ  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR CHATCHAWAN LUEANLONG  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : OCTOBER 26, 2022  
**ANALYTICAL DATE** : OCTOBER 26-31, 2022  
**REPORT NO.** : 2022-U085647  
**WORK NO.** : 2021-001117  
**ANALYSIS NO.** : T22AV293-0007 - T22AV293-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านเขาพระ		
			* T22AV293-0007	** T22AV293-0008	*** T22AV293-0009
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.059	0.035	0.044
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.026	0.010	0.018
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
\* : SAMPLING FROM 11:00 HOUR ON OCTOBER 20, 2022 TO 11:00 HOUR ON OCTOBER 21, 2022.  
\*\* : SAMPLING FROM 11:00 HOUR ON OCTOBER 21, 2022 TO 11:00 HOUR ON OCTOBER 22, 2022.  
\*\*\* : SAMPLING FROM 11:00 HOUR ON OCTOBER 22, 2022 TO 11:00 HOUR ON OCTOBER 23, 2022.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

NOVEMBER 2, 2022





## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : INSEE ECOCYCLE COMPANY LIMITED  
**ADDRESS** : COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**MEASURING PLACE** : บ้านพระ  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : OCTOBER 20-23, 2022  
**MEASURING DATE** : OCTOBER 20-23, 2022 **ANALYTICAL DATE** : OCTOBER 20-23, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U085362  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2021-001117  
**MEASURED BY** : MR CHATCHAWAN LUEANLONG **ANALYSIS NO.** : T22AV293-0007 - T22AV293-0009

TIME *	RESULT (m/s)					
	บ้านพระ					
	OCTOBER 20 - 21, 2022 T22AV293-0007		OCTOBER 21 - 22, 2022 T22AV293-0008		OCTOBER 22 - 23, 2022 T22AV293-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.4	NNE	2.1	E	1.9	NE
08:00-09:00 HOUR	2.1	ESE	1.3	NNW	2.3	N
09:00-10:00 HOUR	1.5	N	1.3	N	2.3	ENE
10:00-11:00 HOUR	1.0	E	1.6	N	1.5	ENE
11:00-12:00 HOUR	0.7	NNE	2.0	NE	2.3	NNE
12:00-13:00 HOUR	0.9	ESE	2.1	NW	2.4	NNE
13:00-14:00 HOUR	0.9	ENE	2.8	N	2.1	NNE
14:00-15:00 HOUR	1.1	NE	2.4	NE	1.5	NNE
15:00-16:00 HOUR	1.4	NNE	3.1	NW	1.7	ESE
16:00-17:00 HOUR	1.8	NNE	3.0	ENE	1.7	SE
17:00-18:00 HOUR	2.2	NNW	2.0	ESE	2.4	SSE
18:00-19:00 HOUR	2.1	ENE	1.1	ESE	2.4	SSE
19:00-20:00 HOUR	3.4	NE	1.3	SE	3.5	ENE
20:00-21:00 HOUR	3.5	ENE	0.7	SE	2.5	ESE
21:00-22:00 HOUR	3.3	NW	1.1	SSW	3.5	ESE
22:00-23:00 HOUR	1.9	ESE	1.0	SE	2.8	NE
23:00-00:00 HOUR	1.5	NNW	0.9	ENE	2.4	N
00:00-01:00 HOUR	1.4	NNE	1.1	NE	2.8	NE
01:00-02:00 HOUR	2.0	NNE	1.0	NNE	2.3	N
02:00-03:00 HOUR	2.0	NE	0.9	NNW	2.7	NE
03:00-04:00 HOUR	1.5	N	1.4	NNE	2.3	ENE
04:00-05:00 HOUR	1.5	E	1.3	N	2.7	NNW
05:00-06:00 HOUR	2.2	ENE	1.3	NE	2.4	NNE
06:00-07:00 HOUR	2.0	N	1.5	NNW	1.9	NE



(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

OCTOBER 31, 2022



## ภาคผนวก ง-2

หนังสือรับรองผลการตรวจวิเคราะห์ระดับเสียง





## ANALYSIS REPORT

<b>PROJECT NAME</b>	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	<b>RECEIVED DATE</b>	: OCTOBER 20-23, 2022
<b>CUSTOMER NAME</b>	: INSEE ECOCYCLE COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: OCTOBER 20-23, 2022
<b>ADDRESS</b>	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	<b>REPORT NO.</b>	: 2022-U085363
<b>CONTACT INFORMATION</b>	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	<b>WORK NO.</b>	: 2021-001117
<b>MEASURING SOURCE</b>	: บ้านบุญบันดาล	<b>ANALYSIS NO.</b>	: T22AV295-0001 - T22AV295-0003
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)		
<b>MEASURING DATE</b>	: OCTOBER 20-23, 2022		
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER		
<b>MEASURED BY</b>	: MR CHATCHAWAN LUEANLONG		

TIME*	RESULT dB(A)		
	บ้านบุญบันดาล		
	OCTOBER 20 - 21, 2022		
	T22AV295-0001		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	47.5	65.3	40.3
08:00-09:00 HOUR	45.5	64.2	38.2
09:00-10:00 HOUR	45.9	65.0	38.9
10:00-11:00 HOUR	45.2	64.9	38.6
11:00-12:00 HOUR	46.7	67.7	39.9
12:00-13:00 HOUR	48.5	69.8	40.9
13:00-14:00 HOUR	49.6	70.7	41.6
14:00-15:00 HOUR	47.7	68.6	40.4
15:00-16:00 HOUR	49.4	69.3	42.2
16:00-17:00 HOUR	48.5	67.2	42.8
17:00-18:00 HOUR	47.1	65.4	42.0
18:00-19:00 HOUR	46.1	63.1	41.2
19:00-20:00 HOUR	43.5	59.8	39.1
20:00-21:00 HOUR	43.4	58.2	39.9
21:00-22:00 HOUR	41.3	55.3	37.7
22:00-23:00 HOUR	40.6	55.2	36.7
23:00-00:00 HOUR	42.8	57.9	38.7
00:00-01:00 HOUR	41.8	57.0	37.5
01:00-02:00 HOUR	41.9	57.3	37.5
02:00-03:00 HOUR	45.2	60.6	40.6
03:00-04:00 HOUR	44.5	60.7	39.1
04:00-05:00 HOUR	44.2	61.4	38.6
05:00-06:00 HOUR	46.0	63.7	39.3
06:00-07:00 HOUR	49.1	66.4	42.0
<b>L<sub>Aeq</sub> 24 hours</b>		46.2	



TIME*	RESULT dB(A)		
	บ้านบุญบันดาล		
	OCTOBER 21 - 22, 2022		
	T22AV295-0002		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	49.5	68.2	41.8
08:00-09:00 HOUR	49.1	68.3	41.3
09:00-10:00 HOUR	47.4	66.9	40.3
10:00-11:00 HOUR	46.2	65.5	39.6
11:00-12:00 HOUR	46.2	67.0	39.4
12:00-13:00 HOUR	47.3	68.6	40.5
13:00-14:00 HOUR	50.9	73.5	43.3
14:00-15:00 HOUR	49.3	70.7	42.1
15:00-16:00 HOUR	49.1	70.4	41.3
16:00-17:00 HOUR	50.4	70.9	43.3
17:00-18:00 HOUR	47.7	67.1	40.9
18:00-19:00 HOUR	48.2	65.6	42.2
19:00-20:00 HOUR	45.6	62.4	40.8
20:00-21:00 HOUR	44.1	59.6	40.5
21:00-22:00 HOUR	43.6	57.9	39.9
22:00-23:00 HOUR	43.1	58.0	39.2
23:00-00:00 HOUR	40.8	55.1	36.5
00:00-01:00 HOUR	42.8	57.4	38.7
01:00-02:00 HOUR	41.9	57.1	37.5
02:00-03:00 HOUR	41.9	57.0	37.5
03:00-04:00 HOUR	43.3	59.3	38.7
04:00-05:00 HOUR	46.2	62.8	41.1
05:00-06:00 HOUR	47.8	65.5	41.8
06:00-07:00 HOUR	48.6	65.7	42.0
L <sub>Aeq</sub> 24 hours		47.2	

TIME*	RESULT dB(A)		
	บ้านบุญบันดาล		
	OCTOBER 22 - 23, 2022		
	T22AV295-0003		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	47.2	64.4	40.1
08:00-09:00 HOUR	47.7	66.5	40.7
09:00-10:00 HOUR	49.7	69.1	42.9
10:00-11:00 HOUR	48.5	68.3	41.8
11:00-12:00 HOUR	47.4	67.6	41.1
12:00-13:00 HOUR	46.3	67.1	39.9
13:00-14:00 HOUR	49.4	71.3	43.3
14:00-15:00 HOUR	50.2	73.9	43.5
15:00-16:00 HOUR	53.8	79.0	43.9
16:00-17:00 HOUR	52.7	77.2	43.5
17:00-18:00 HOUR	49.3	69.6	41.7
18:00-19:00 HOUR	46.7	64.0	40.3
19:00-20:00 HOUR	46.2	61.6	43.1
20:00-21:00 HOUR	43.9	59.0	40.3
21:00-22:00 HOUR	43.4	58.7	39.6
22:00-23:00 HOUR	41.0	57.1	37.0
23:00-00:00 HOUR	40.6	54.8	36.7
00:00-01:00 HOUR	39.8	53.6	36.3
01:00-02:00 HOUR	39.7	54.6	35.8
02:00-03:00 HOUR	41.6	57.5	37.3
03:00-04:00 HOUR	44.5	61.4	39.8
04:00-05:00 HOUR	46.1	63.7	41.0
05:00-06:00 HOUR	47.0	63.2	41.8
06:00-07:00 HOUR	47.0	60.8	41.3
L <sub>Aeq</sub> 24 hours		47.8	

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

OCTOBER 31, 2022



## ANALYSIS REPORT

<b>PROJECT NAME</b>	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	<b>RECEIVED DATE</b>	: OCTOBER 20-23, 2022
<b>CUSTOMER NAME</b>	: INSEE ECOCYCLE COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: OCTOBER 20-23, 2022
<b>ADDRESS</b>	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	<b>REPORT NO.</b>	: 2022-U085364
<b>CONTACT INFORMATION</b>	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	<b>WORK NO.</b>	: 2021-001117
<b>MEASURING SOURCE</b>	: บ้านชลประทาน	<b>ANALYSIS NO.</b>	: T22AV295-0004 - T22AV295-0006
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)		
<b>MEASURING DATE</b>	: OCTOBER 20-23, 2022		
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER		
<b>MEASURED BY</b>	: MR CHATCHAWAN LUEANLONG		

TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	OCTOBER 20 - 21, 2022		
	T22AV295-0004		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	50.1	67.5	46.8
08:00-09:00 HOUR	50.6	69.3	47.2
09:00-10:00 HOUR	51.2	68.5	47.7
10:00-11:00 HOUR	50.1	68.8	46.3
11:00-12:00 HOUR	52.4	72.2	47.7
12:00-13:00 HOUR	51.3	72.8	45.7
13:00-14:00 HOUR	51.1	73.2	44.9
14:00-15:00 HOUR	50.1	74.1	43.4
15:00-16:00 HOUR	51.4	76.0	44.6
16:00-17:00 HOUR	50.2	75.2	43.7
17:00-18:00 HOUR	52.0	75.9	45.6
18:00-19:00 HOUR	52.4	74.6	46.6
19:00-20:00 HOUR	52.0	73.6	45.7
20:00-21:00 HOUR	51.7	71.2	45.8
21:00-22:00 HOUR	51.7	70.7	46.5
22:00-23:00 HOUR	51.0	69.1	46.3
23:00-00:00 HOUR	50.0	66.9	46.2
00:00-01:00 HOUR	50.3	66.2	46.9
01:00-02:00 HOUR	49.2	65.6	46.0
02:00-03:00 HOUR	48.8	63.1	46.2
03:00-04:00 HOUR	49.1	64.1	46.4
04:00-05:00 HOUR	51.5	68.1	48.4
05:00-06:00 HOUR	51.4	67.1	48.2
06:00-07:00 HOUR	50.5	67.7	46.8
L <sub>Aeq</sub> 24 hours		50.9	



TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	OCTOBER 21 - 22, 2022		
	T22AV295-0005		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	50.6	69.9	46.4
08:00-09:00 HOUR	51.7	72.7	47.8
09:00-10:00 HOUR	51.9	73.0	48.1
10:00-11:00 HOUR	51.9	74.8	48.2
11:00-12:00 HOUR	52.8	77.2	48.1
12:00-13:00 HOUR	50.7	74.6	45.4
13:00-14:00 HOUR	51.0	73.8	44.9
14:00-15:00 HOUR	51.9	75.6	45.6
15:00-16:00 HOUR	53.6	75.4	47.6
16:00-17:00 HOUR	52.2	71.2	47.4
17:00-18:00 HOUR	52.7	70.8	48.7
18:00-19:00 HOUR	51.0	66.4	47.9
19:00-20:00 HOUR	51.4	65.5	48.7
20:00-21:00 HOUR	50.3	63.7	47.6
21:00-22:00 HOUR	49.4	64.5	46.3
22:00-23:00 HOUR	48.8	62.2	45.8
23:00-00:00 HOUR	49.1	63.2	46.3
00:00-01:00 HOUR	49.5	62.2	46.8
01:00-02:00 HOUR	49.4	63.2	46.9
02:00-03:00 HOUR	50.7	63.9	48.8
03:00-04:00 HOUR	51.2	66.0	48.9
04:00-05:00 HOUR	53.5	70.4	50.5
05:00-06:00 HOUR	52.5	71.8	48.7
06:00-07:00 HOUR	49.9	71.6	45.0
L <sub>Aeq</sub> 24 hours		51.4	



TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	OCTOBER 22 - 23, 2022		
	T22AV295-0006		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	48.9	72.0	42.7
08:00-09:00 HOUR	48.1	73.9	41.0
09:00-10:00 HOUR	47.5	73.5	40.3
10:00-11:00 HOUR	48.9	75.8	41.3
11:00-12:00 HOUR	49.9	76.3	41.2
12:00-13:00 HOUR	49.1	75.4	40.5
13:00-14:00 HOUR	49.1	74.1	40.4
14:00-15:00 HOUR	51.2	74.9	42.7
15:00-16:00 HOUR	53.6	76.1	45.7
16:00-17:00 HOUR	53.4	74.8	47.1
17:00-18:00 HOUR	51.9	71.5	46.6
18:00-19:00 HOUR	52.1	69.6	48.1
19:00-20:00 HOUR	48.4	67.4	44.7
20:00-21:00 HOUR	48.7	65.4	45.5
21:00-22:00 HOUR	47.8	62.0	45.0
22:00-23:00 HOUR	46.1	59.1	43.3
23:00-00:00 HOUR	47.8	61.1	45.2
00:00-01:00 HOUR	47.9	58.0	45.4
01:00-02:00 HOUR	51.0	61.4	48.5
02:00-03:00 HOUR	52.5	65.0	50.1
03:00-04:00 HOUR	53.6	67.1	51.3
04:00-05:00 HOUR	53.2	66.9	50.9
05:00-06:00 HOUR	55.1	70.5	53.1
06:00-07:00 HOUR	55.5	74.3	53.6
L <sub>Aeq</sub> 24 hours		51.3	

*Sila*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

OCTOBER 31, 2022

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)	<b>RECEIVED DATE</b>	: OCTOBER 20-23, 2022
<b>CUSTOMER NAME</b>	: INSEE ECOCYCLE COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: OCTOBER 20-23, 2022
<b>ADDRESS</b>	: COLUMN TOWER, 3RD, 10TH, 12TH FL., 199 KHLONG TOEI KHLONG TOEI BANGKOK 10110	<b>REPORT NO.</b>	: 2022-U085365
<b>CONTACT INFORMATION</b>	: TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM	<b>WORK NO.</b>	: 2021-001117
<b>MEASURING SOURCE</b>	: บ้านพระพรหม	<b>ANALYSIS NO.</b>	: T22AV295-0007 - T22AV295-0009
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)		
<b>MEASURING DATE</b>	: OCTOBER 20-23, 2022		
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER		
<b>MEASURED BY</b>	: MR CHATCHAWAN LUEANLONG		

TIME*	RESULT dB(A)		
	บ้านพระพรหม		
	OCTOBER 20 - 21, 2022		
	T22AV295-0007		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	57.4	81.9	47.3
08:00-09:00 HOUR	55.5	79.6	45.5
09:00-10:00 HOUR	52.9	76.7	43.5
10:00-11:00 HOUR	53.8	77.2	44.4
11:00-12:00 HOUR	53.4	75.6	44.5
12:00-13:00 HOUR	54.1	75.5	45.7
13:00-14:00 HOUR	57.5	77.6	49.1
14:00-15:00 HOUR	55.8	74.4	48.3
15:00-16:00 HOUR	54.9	72.8	48.3
16:00-17:00 HOUR	57.3	73.9	51.1
17:00-18:00 HOUR	58.1	73.0	51.8
18:00-19:00 HOUR	58.0	72.0	52.2
19:00-20:00 HOUR	57.4	70.8	52.9
20:00-21:00 HOUR	57.1	69.5	52.6
21:00-22:00 HOUR	58.1	69.7	53.4
22:00-23:00 HOUR	57.9	70.8	52.3
23:00-00:00 HOUR	55.7	69.9	49.4
00:00-01:00 HOUR	55.7	70.8	49.0
01:00-02:00 HOUR	54.3	70.9	47.4
02:00-03:00 HOUR	54.8	72.1	47.7
03:00-04:00 HOUR	55.1	74.2	47.8
04:00-05:00 HOUR	56.7	77.6	48.4
05:00-06:00 HOUR	57.2	78.4	47.8
06:00-07:00 HOUR	54.2	76.8	45.2
L <sub>Aeq</sub> 24 hours		56.2	



TIME*	RESULT dB(A)		
	มาตรฐาน		
	OCTOBER 21 - 22, 2022		
	T22AV295-0008		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	56.4	80.2	46.9
08:00-09:00 HOUR	53.1	77.2	43.5
09:00-10:00 HOUR	54.9	79.6	45.7
10:00-11:00 HOUR	56.5	80.2	46.5
11:00-12:00 HOUR	55.9	79.2	46.6
12:00-13:00 HOUR	56.7	78.1	48.1
13:00-14:00 HOUR	57.8	76.9	50.4
14:00-15:00 HOUR	57.3	74.7	51.3
15:00-16:00 HOUR	57.6	72.6	51.3
16:00-17:00 HOUR	58.5	72.1	52.7
17:00-18:00 HOUR	56.6	69.4	51.3
18:00-19:00 HOUR	57.0	69.0	52.4
19:00-20:00 HOUR	57.1	69.0	53.3
20:00-21:00 HOUR	55.8	68.7	51.2
21:00-22:00 HOUR	55.9	68.9	50.6
22:00-23:00 HOUR	55.6	69.3	49.4
23:00-00:00 HOUR	57.3	71.3	50.8
00:00-01:00 HOUR	57.7	72.1	51.5
01:00-02:00 HOUR	56.5	71.7	50.2
02:00-03:00 HOUR	56.1	71.6	49.9
03:00-04:00 HOUR	56.4	74.0	49.5
04:00-05:00 HOUR	58.6	77.9	50.4
05:00-06:00 HOUR	58.2	79.1	49.2
06:00-07:00 HOUR	57.0	79.6	47.6
L <sub>Aeq</sub> 24 hours		56.8	



TIME*	RESULT dB(A)		
	มาตรฐาน		
	OCTOBER 22 - 23, 2022		
	T22AV295-0009		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	55.6	78.3	45.6
08:00-09:00 HOUR	55.2	77.3	45.8
09:00-10:00 HOUR	55.4	78.9	46.0
10:00-11:00 HOUR	57.0	80.9	46.1
11:00-12:00 HOUR	54.4	79.6	43.8
12:00-13:00 HOUR	54.8	80.2	44.2
13:00-14:00 HOUR	55.8	80.6	45.7
14:00-15:00 HOUR	53.2	77.3	44.5
15:00-16:00 HOUR	55.0	76.6	46.6
16:00-17:00 HOUR	57.6	78.0	50.4
17:00-18:00 HOUR	58.4	74.6	52.4
18:00-19:00 HOUR	59.4	72.0	55.2
19:00-20:00 HOUR	60.9	70.5	57.7
20:00-21:00 HOUR	58.1	65.0	54.7
21:00-22:00 HOUR	57.2	64.0	53.7
22:00-23:00 HOUR	56.6	64.8	52.7
23:00-00:00 HOUR	55.3	65.0	51.3
00:00-01:00 HOUR	52.7	65.2	48.2
01:00-02:00 HOUR	54.5	69.3	48.6
02:00-03:00 HOUR	56.8	72.6	49.9
03:00-04:00 HOUR	56.9	74.5	49.8
04:00-05:00 HOUR	58.8	75.7	51.1
05:00-06:00 HOUR	58.6	75.9	51.8
06:00-07:00 HOUR	56.8	75.7	51.2
L <sub>Aeq</sub> 24 hours		56.9	

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

OCTOBER 31, 2022

## ภาคผนวก ง-3

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพน้ำ





## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED  
**ADDRESS** : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : NOVEMBER 16, 2022  
**SAMPLING TIME** : 16:35 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : NOVEMBER 17, 2022  
**ANALYTICAL DATE** : NOVEMBER 17-24, 2022  
**REPORT NO.** : 2022-U093936  
**WORK NO.** : 2021-001117  
**ANALYSIS NO.** : T22AW930-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านบุญบันดาล T22AW930-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.9 (27°C)	-
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	0.4	0.1
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	442	25
TOTAL HARDNESS °	mg/L as CaCO <sub>3</sub>	EDTA TITRIMETRIC METHOD (SM: 2340 C)	392	4.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	3.1	0.3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0003	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านบุญบันดาล T22AW930-0001	
LEAD <sup>c</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE.

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

NOVEMBER 30, 2022

## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED  
**ADDRESS** : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : NOVEMBER 16, 2022  
**SAMPLING TIME** : 16:20 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : NOVEMBER 17, 2022  
**ANALYTICAL DATE** : NOVEMBER 17-24, 2022  
**REPORT NO.** : 2022-U093937  
**WORK NO.** : 2021-001117  
**ANALYSIS NO.** : T22AW930-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านชลประทาน T22AW930-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.9 (27°C)	-
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	1.0	0.1
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	476	25
TOTAL HARDNESS °	mg/L as CaCO <sub>3</sub>	EDTA TITRIMETRIC METHOD (SM: 2340 C)	420	4.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	3.5	0.3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0003	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านชลประทาน T22AW930-0002	
LEAD <sup>c</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE.

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

NOVEMBER 30, 2022



## ANALYSIS REPORT

**PROJECT NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDC)  
**CUSTOMER NAME** : SIAM CITY CEMENT PUBLIC COMPANY LIMITED  
**ADDRESS** : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOI SARABURI 18260  
**CONTACT INFORMATION** : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : NOVEMBER 16, 2022  
**SAMPLING TIME** : 16:50 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS PORNPIMOL WAENTHONG

**RECEIVED DATE** : NOVEMBER 17, 2022  
**ANALYTICAL DATE** : NOVEMBER 17-24, 2022  
**REPORT NO.** : 2022-U093938  
**WORK NO.** : 2021-001117  
**ANALYSIS NO.** : T22AW930-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านเขาพระ T22AW930-0003	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.6 (27°C)	-
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	2.4	0.1
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	486	25
TOTAL HARDNESS °	mg/L as CaCO <sub>3</sub>	EDTA TITRIMETRIC METHOD (SM: 2340 C)	440	4.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	9.4	0.3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.005





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มาตรฐาน T22AW930-0003	
LEAD <sup>c</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN	

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (IRON  $\geq$  0.005 AND < 0.050 mg/L).

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

NOVEMBER 30, 2022