

ภาคผนวก ง

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม



ภาคผนวก ง-1

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพอากาศในบรรยากาศ



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
CUSTOMER NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED
ADDRESS : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOEI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านวงศ์เพชร (ทิศตะวันออก)
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR WORRAPONG NONTAJAN
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : MARCH 11, 2022
ANALYTICAL DATE : MARCH 11-15, 2022
REPORT NO. : 2022-U020874
WORK NO. : 2021-001118
ANALYSIS NO. : T22AE746-0001 - T22AE746-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านวงศ์เพชร (ทิศตะวันออก)		
			* T22AE746-0001	** T22AE746-0002	*** T22AE746-0003
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.143	0.124	0.149
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.078	0.065	0.083
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
RESULT : 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 MARCH 6, 2022 TO 10:00 HOUR ON MARCH 7, 2022.
****** : SAMPLING FROM 10:00 HOUR ON MARCH 7, 2022 TO 10:00 HOUR ON MARCH 8, 2022.
******* : SAMPLING FROM 10:00 HOUR ON MARCH 8, 2022 TO 10:00 HOUR ON MARCH 9, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 23, 2022



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
CUSTOMER NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED
ADDRESS : 99,219,301 MOO 9,5,5, MITRAPARB ROAD TABKWANG KAENGKOEI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านวงศ์เพชร (ทิศใต้)
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR WORRAPONG NONTAJAN
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : MARCH 11, 2022
ANALYTICAL DATE : MARCH 11-15, 2022
REPORT NO. : 2022-U020875
WORK NO. : 2021-001118
ANALYSIS NO. : T22AE746-0004 - T22AE746-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านวงศ์เพชร (ทิศใต้)		
			* T22AE746-0004	** T22AE746-0005	*** T22AE746-0006
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.119	0.106	0.110
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.059	0.047	0.057
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
RESULT : 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 MARCH 6, 2022 TO 10:30 HOUR ON MARCH 7, 2022.
****** : SAMPLING FROM 10:30 HOUR ON MARCH 7, 2022 TO 10:30 HOUR ON MARCH 8, 2022.
******* : SAMPLING FROM 10:30 HOUR ON MARCH 8, 2022 TO 10:30 HOUR ON MARCH 9, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 23, 2022



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : วัดถ้ำลิ้นปญจา
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR WORRAPONG NONTAJAN
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : MARCH 11, 2022
ANALYTICAL DATE : MARCH 11-15, 2022
REPORT NO. : 2022-U020876
WORK NO. : 2021-001118
ANALYSIS NO. : T22AE746-0007 - T22AE746-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			วัดถ้ำลิ้นปญจา		
			* T22AE746-0007	** T22AE746-0008	*** T22AE746-0009
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.108	0.091	0.114
PARTICULATE MATTER (≤ 10 μm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.058	0.051	0.061
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
RESULT : 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 B.
***** : SAMPLING FROM 11:00 HOUR ON MARCH 6, 2022 TO 11:00 HOUR ON MARCH 7, 2022.
****** : SAMPLING FROM 11:00 HOUR ON MARCH 7, 2022 TO 11:00 HOUR ON MARCH 8, 2022.
******* : SAMPLING FROM 11:00 HOUR ON MARCH 8, 2022 TO 11:00 HOUR ON MARCH 9, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 23, 2022



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : บ้านวงศ์เกษมสร (ทิศตะวันออก)
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : MARCH 6-9, 2022
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR WORRAPONG NONTAJAN

RECEIVED DATE : MARCH 6-9, 2022
ANALYTICAL DATE : MARCH 6-9, 2022
REPORT NO. : 2022-U020796
WORK NO. : 2021-001118
ANALYSIS NO. : T22AE746-0001 - T22AE746-0003

TIME *	RESULT (m/s)					
	บ้านวงศ์เกษมสร (ทิศตะวันออก)					
	MARCH 6 - 7, 2022 T22AE746-0001		MARCH 7 - 8, 2022 T22AE746-0002		MARCH 8 - 9, 2022 T22AE746-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	0.6	SSW	0.7	SSW	1.1	S
08:00-09:00 HOUR	0.8	SW	1	S	0.9	SSW
09:00-10:00 HOUR	0.9	SW	0.8	SSW	1.1	S
10:00-11:00 HOUR	1.2	SSW	0.9	SW	0.9	S
11:00-12:00 HOUR	1	S	1.6	SW	1.3	S
12:00-13:00 HOUR	1.3	SSW	1.4	WSW	1.1	S
13:00-14:00 HOUR	1.1	S	2	WSW	0.9	SW
14:00-15:00 HOUR	0.9	SSW	1.9	SW	1	SSW
15:00-16:00 HOUR	0.7	S	2.1	SSW	0.8	SW
16:00-17:00 HOUR	0.8	SSW	1.5	S	0.9	SW
17:00-18:00 HOUR	1	SW	1.3	SSW	1	SSE
18:00-19:00 HOUR	1.2	SW	1.4	S	0.7	SW
19:00-20:00 HOUR	1.4	SSW	1.2	SW	0.8	SSE
20:00-21:00 HOUR	1.7	SSW	0.8	WSW	0.9	SSE
21:00-22:00 HOUR	1.6	SSW	1.1	SSW	1.1	SSE
22:00-23:00 HOUR	1.3	S	1	S	0.9	S
23:00-00:00 HOUR	1	SSW	0.9	SSW	1.1	SSE
00:00-01:00 HOUR	1.1	SSW	0.7	S	1.3	SSW
01:00-02:00 HOUR	1.2	SSW	1	S	1.4	S
02:00-03:00 HOUR	1	SSW	0.8	S	2	S
03:00-04:00 HOUR	0.7	S	1.1	SSW	1.4	SSW
04:00-05:00 HOUR	0.9	S	0.8	S	1.5	S
05:00-06:00 HOUR	0.8	SSW	0.7	S	1.3	SSW
06:00-07:00 HOUR	1	SSW	1	SSE	1.6	SSW

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 24, 2022



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : บ้านวงศ์เพชร (ทิศใต้)
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : MARCH 6-9, 2022
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR WORRAPONG NONTHAJAN
RECEIVED DATE : MARCH 6-9, 2022
ANALYTICAL DATE : MARCH 6-9, 2022
REPORT NO. : 2022-U020797
WORK NO. : 2021-001118
ANALYSIS NO. : T22AE746-0004 - T22AE746-0006

TIME *	RESULT (m/s)					
	บ้านวงศ์เพชร (ทิศใต้)					
	MARCH 6 - 7, 2022 T22AE746-0004		MARCH 7 - 8, 2022 T22AE746-0005		MARCH 8 - 9, 2022 T22AE746-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	0.9	SSE	0.9	SSE	2.3	S
08:00-09:00 HOUR	1.1	SSE	0.8	SSE	1.5	S
09:00-10:00 HOUR	0.8	S	1.3	SSE	1.6	SSW
10:00-11:00 HOUR	1.3	S	0.9	SSW	1.1	SSW
11:00-12:00 HOUR	1.2	SSW	0.8	S	0.9	SSW
12:00-13:00 HOUR	0.8	SSE	1.2	SW	1.1	SSW
13:00-14:00 HOUR	0.9	S	1	SSW	1	S
14:00-15:00 HOUR	1.1	SSE	1.1	S	0.9	SW
15:00-16:00 HOUR	1	SSE	0.7	SW	0.8	S
16:00-17:00 HOUR	1.2	S	0.9	SSW	1.1	SSW
17:00-18:00 HOUR	0.8	S	1.1	SSW	1.4	S
18:00-19:00 HOUR	1.1	SSW	1.7	S	1.6	S
19:00-20:00 HOUR	1	S	1.4	SW	1.7	S
20:00-21:00 HOUR	0.8	SSW	1.3	SSW	2.1	SSW
21:00-22:00 HOUR	1.4	SSW	1.8	S	2	S
22:00-23:00 HOUR	1.5	SSW	1.7	WSW	1.9	SSW
23:00-00:00 HOUR	1.6	WSW	1.5	SSW	2	SW
00:00-01:00 HOUR	2.2	SW	1.8	S	1.6	S
01:00-02:00 HOUR	1.9	S	2	S	1.8	S
02:00-03:00 HOUR	1.7	SSW	2.2	SW	2.2	S
03:00-04:00 HOUR	1.6	S	1.9	SSW	1.7	SSW
04:00-05:00 HOUR	1.4	SW	2.1	SSW	1.5	S
05:00-06:00 HOUR	1.3	SSE	1.3	S	1.2	S
06:00-07:00 HOUR	1.1	SSE	1.6	SSE	0.8	S

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(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : วัดถ้ำลิ้นปี่ญา
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : MARCH 6-9, 2022
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR WORRAPONG NONTHAJAN
RECEIVED DATE : MARCH 6-9, 2022
ANALYTICAL DATE : MARCH 6-9, 2022
REPORT NO. : 2022-U020798
WORK NO. : 2021-001118
ANALYSIS NO. : T22AE746-0007 - T22AE746-0009

TIME *	RESULT (m/s)					
	วัดถ้ำลิ้นปี่ญา					
	MARCH 6 - 7, 2022 T22AE746-0007		MARCH 7 - 8, 2022 T22AE746-0008		MARCH 8 - 9, 2022 T22AE746-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.9	SW	1.1	SW	1	WSW
08:00-09:00 HOUR	2	SSW	1.2	SW	1.2	WSW
09:00-10:00 HOUR	1.8	SW	1.7	S	1.5	SW
10:00-11:00 HOUR	1.5	SSE	1.6	S	0.8	W
11:00-12:00 HOUR	1.4	S	1.9	S	0.9	SSW
12:00-13:00 HOUR	1.7	SSE	2.1	SE	1.2	SW
13:00-14:00 HOUR	1.5	SSW	2.2	SSE	0.9	S
14:00-15:00 HOUR	1.7	S	2	S	1	SSE
15:00-16:00 HOUR	1.4	S	2.3	S	1.4	S
16:00-17:00 HOUR	1.5	S	2.1	SW	1.1	SSE
17:00-18:00 HOUR	1.9	SSW	2	SW	0.9	SSW
18:00-19:00 HOUR	2	SW	1.9	SSW	0.8	S
19:00-20:00 HOUR	2.1	S	2.1	SSW	1	SSW
20:00-21:00 HOUR	1.8	SW	1.8	S	0.9	SW
21:00-22:00 HOUR	1.4	SW	1.7	S	1.3	S
22:00-23:00 HOUR	1.9	WSW	1.6	SSW	1.1	SW
23:00-00:00 HOUR	1.7	SW	1.4	SSW	1	WSW
00:00-01:00 HOUR	2.2	SW	0.9	SSW	1.2	WSW
01:00-02:00 HOUR	2.1	SW	1.2	SSW	1.1	SSW
02:00-03:00 HOUR	2	SSW	1.1	WSW	1	SSW
03:00-04:00 HOUR	1.5	SW	0.9	SW	1.6	SW
04:00-05:00 HOUR	1.6	SW	1.2	W	1.4	SW
05:00-06:00 HOUR	1.4	SW	0.8	SW	1.5	SSW
06:00-07:00 HOUR	1	SSW	0.9	W	1.2	S

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(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022



ภาคผนวก ง-2

หนังสือรับรองผลการตรวจวิเคราะห์ระดับเสียง



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)

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 SOURCE : บ้านวงศ์เกษม (ทิศตะวันออก)

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 6-9, 2022

MEASURING TIME : *

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR WORRAPONG NONTHAJAN

RECEIVED DATE : MARCH 6-9, 2022

ANALYTICAL DATE : MARCH 6-9, 2022

REPORT NO. : 2022-U020800

WORK NO. : 2021-001118

ANALYSIS NO. : T22AE746-0010 - T22AE746-0012

TIME*	RESULT dB(A)		
	บ้านวงศ์เกษม (ทิศตะวันออก)		
	MARCH 6 - 7, 2022		
	T22AE746-0010		
	LAeq 1 hour	LAmx 1 hour	LA90 1 hour
07:00-08:00 HOUR	62.2	88.8	52.7
08:00-09:00 HOUR	57.8	79.0	47.5
09:00-10:00 HOUR	56.0	80.2	46.8
10:00-11:00 HOUR	55.9	74.8	46.5
11:00-12:00 HOUR	56.3	77.3	46.2
12:00-13:00 HOUR	56.3	78.4	46.5
13:00-14:00 HOUR	58.4	88.5	46.6
14:00-15:00 HOUR	55.2	75.2	45.6
15:00-16:00 HOUR	61.7	85.8	45.9
16:00-17:00 HOUR	58.5	77.3	46.7
17:00-18:00 HOUR	59.1	87.8	46.9
18:00-19:00 HOUR	57.5	82.4	49.5
19:00-20:00 HOUR	56.3	77.3	49.5
20:00-21:00 HOUR	54.8	80.9	48.2
21:00-22:00 HOUR	56.3	81.3	48.9
22:00-23:00 HOUR	52.4	73.4	47.5
23:00-00:00 HOUR	50.8	73.5	47.2
00:00-01:00 HOUR	50.0	69.8	46.1
01:00-02:00 HOUR	50.1	72.0	45.6
02:00-03:00 HOUR	50.0	69.7	46.0
03:00-04:00 HOUR	52.5	71.3	48.1
04:00-05:00 HOUR	49.4	72.1	46.1
05:00-06:00 HOUR	53.2	78.2	46.6
06:00-07:00 HOUR	52.5	73.0	46.9
LAeq 24 hours		56.6	

TIME*	RESULT dB(A)		
	บ้านวงศ์เกษม (ทิศตะวันออก)		
	MARCH 7 - 8, 2022		
	T22AE746-0011		
	LAeq 1 hour	LAmx 1 hour	LA90 1 hour
07:00-08:00 HOUR	56.8	81.1	47.2
08:00-09:00 HOUR	60.1	92.2	46.7
09:00-10:00 HOUR	56.1	79.6	46.6
10:00-11:00 HOUR	55.3	76.0	46.3
11:00-12:00 HOUR	54.7	81.0	46.3
12:00-13:00 HOUR	54.3	78.1	46.3
13:00-14:00 HOUR	56.4	75.9	46.7
14:00-15:00 HOUR	56.0	79.9	45.7
15:00-16:00 HOUR	53.8	82.6	45.4
16:00-17:00 HOUR	54.4	79.1	44.7
17:00-18:00 HOUR	54.7	76.4	45.5
18:00-19:00 HOUR	56.1	78.7	50.0
19:00-20:00 HOUR	54.7	77.0	49.7
20:00-21:00 HOUR	55.3	82.9	47.6
21:00-22:00 HOUR	52.3	66.7	47.7
22:00-23:00 HOUR	51.3	77.4	45.9
23:00-00:00 HOUR	50.4	73.7	46.1
00:00-01:00 HOUR	47.5	70.1	44.9
01:00-02:00 HOUR	46.1	55.0	44.4
02:00-03:00 HOUR	46.6	70.1	44.0
03:00-04:00 HOUR	49.4	72.1	44.1
04:00-05:00 HOUR	48.3	71.3	44.5
05:00-06:00 HOUR	55.4	73.5	47.2
06:00-07:00 HOUR	56.3	79.4	47.6
LAeq 24 hours		54.6	



TIME*	RESULT dB(A)		
	นางพวงศเกษร (กิตติคุณ)		
	MARCH 8 - 9, 2022		
	T22AE746-0012		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.2	83.9	46.1
08:00-09:00 HOUR	55.8	81.2	46.3
09:00-10:00 HOUR	52.2	75.3	45.1
10:00-11:00 HOUR	56.9	82.6	46.9
11:00-12:00 HOUR	55.8	76.5	46.9
12:00-13:00 HOUR	52.6	70.7	46.6
13:00-14:00 HOUR	54.9	83.1	46.0
14:00-15:00 HOUR	55.2	78.3	45.7
15:00-16:00 HOUR	54.8	80.9	45.1
16:00-17:00 HOUR	53.2	77.6	45.4
17:00-18:00 HOUR	59.7	88.1	46.1
18:00-19:00 HOUR	58.2	85.0	49.2
19:00-20:00 HOUR	54.6	79.1	50.3
20:00-21:00 HOUR	53.6	77.5	49.4
21:00-22:00 HOUR	52.2	74.9	47.9
22:00-23:00 HOUR	50.0	70.8	46.2
23:00-00:00 HOUR	48.0	65.1	45.4
00:00-01:00 HOUR	48.5	67.5	45.6
01:00-02:00 HOUR	52.3	70.6	45.7
02:00-03:00 HOUR	52.0	65.4	45.7
03:00-04:00 HOUR	51.5	72.2	45.1
04:00-05:00 HOUR	49.7	69.6	45.6
05:00-06:00 HOUR	56.6	75.3	48.1
06:00-07:00 HOUR	54.6	76.0	47.8
L _{Aeq} 24 hours		54.7	

hid 72
(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)

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 SOURCE : บ้านวงศ์เกษร (กิตติคุณ)

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 6-9, 2022

MEASURING TIME : *

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR WORRAPONG NONGTHAJAN

RECEIVED DATE : MARCH 6-9, 2022

ANALYTICAL DATE : MARCH 6-9, 2022

REPORT NO. : 2022-U020801

WORK NO. : 2021-001118

ANALYSIS NO. : T22AE746-0013 - T22AE746-0015

TIME*	RESULT dB(A)		
	นางพวงศเกษร (กิตติคุณ)		
	MARCH 6 - 7, 2022		
	T22AE746-0013		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	62.2	85.3	47.2
08:00-09:00 HOUR	59.8	89.3	45.0
09:00-10:00 HOUR	55.3	80.4	44.3
10:00-11:00 HOUR	56.4	80.7	44.1
11:00-12:00 HOUR	54.3	78.2	43.9
12:00-13:00 HOUR	56.1	81.7	44.3
13:00-14:00 HOUR	54.6	85.7	43.8
14:00-15:00 HOUR	53.5	82.9	43.1
15:00-16:00 HOUR	57.6	95.2	43.6
16:00-17:00 HOUR	53.9	82.1	44.3
17:00-18:00 HOUR	51.6	72.7	44.6
18:00-19:00 HOUR	53.4	82.9	44.8
19:00-20:00 HOUR	51.3	68.1	49.7
20:00-21:00 HOUR	54.2	59.9	51.1
21:00-22:00 HOUR	50.8	65.8	47.9
22:00-23:00 HOUR	47.5	60.9	44.7
23:00-00:00 HOUR	45.8	51.4	44.2
00:00-01:00 HOUR	46.0	73.2	44.2
01:00-02:00 HOUR	45.7	72.1	44.5
02:00-03:00 HOUR	46.0	73.0	44.7
03:00-04:00 HOUR	49.2	75.4	44.9
04:00-05:00 HOUR	50.5	73.6	45.2
05:00-06:00 HOUR	57.8	74.7	49.3
06:00-07:00 HOUR	61.9	82.0	47.0
L _{Aeq} 24 hours		55.7	



TIME*	RESULT dB(A)		
	นางวงศ์เกษม (กิตติ)		
	MARCH 7 - 8, 2022		
	T22AE746-0014		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	59.3	80.6	46.5
08:00-09:00 HOUR	57.9	79.5	44.5
09:00-10:00 HOUR	56.5	81.5	44.3
10:00-11:00 HOUR	56.9	80.0	35.9
11:00-12:00 HOUR	55.8	79.3	36.2
12:00-13:00 HOUR	57.4	82.1	36.2
13:00-14:00 HOUR	53.1	73.6	34.6
14:00-15:00 HOUR	53.8	77.7	34.5
15:00-16:00 HOUR	49.4	72.1	33.5
16:00-17:00 HOUR	69.9	102.8	37.2
17:00-18:00 HOUR	62.6	91.5	45.5
18:00-19:00 HOUR	55.5	79.3	38.1
19:00-20:00 HOUR	50.4	73.9	40.0
20:00-21:00 HOUR	41.2	61.2	36.7
21:00-22:00 HOUR	46.3	77.1	36.4
22:00-23:00 HOUR	48.2	78.1	37.7
23:00-00:00 HOUR	43.3	75.9	36.3
00:00-01:00 HOUR	41.1	66.4	33.8
01:00-02:00 HOUR	59.1	86.0	34.0
02:00-03:00 HOUR	57.3	80.9	31.8
03:00-04:00 HOUR	48.1	73.3	33.4
04:00-05:00 HOUR	52.4	72.7	33.4
05:00-06:00 HOUR	56.4	74.2	36.4
06:00-07:00 HOUR	62.2	81.6	44.8
L _{Aeq} 24 hours		59.2	

TIME*	RESULT dB(A)		
	นางวงศ์เกษม (กิตติ)		
	MARCH 8 - 9, 2022		
	T22AE746-0015		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	61.2	83.3	39.7
08:00-09:00 HOUR	61.5	87.8	37.0
09:00-10:00 HOUR	55.5	85.4	36.3
10:00-11:00 HOUR	57.0	80.3	44.3
11:00-12:00 HOUR	56.7	79.3	45.3
12:00-13:00 HOUR	54.8	82.9	45.1
13:00-14:00 HOUR	54.4	79.6	44.8
14:00-15:00 HOUR	52.9	76.1	45.0
15:00-16:00 HOUR	55.2	79.9	45.4
16:00-17:00 HOUR	56.3	83.5	46.0
17:00-18:00 HOUR	55.9	73.0	46.3
18:00-19:00 HOUR	52.3	72.9	45.9
19:00-20:00 HOUR	54.0	84.9	46.5
20:00-21:00 HOUR	48.8	76.0	46.2
21:00-22:00 HOUR	46.3	54.9	45.6
22:00-23:00 HOUR	46.4	59.2	45.6
23:00-00:00 HOUR	46.3	64.8	45.5
00:00-01:00 HOUR	45.8	61.0	45.3
01:00-02:00 HOUR	46.2	71.3	45.3
02:00-03:00 HOUR	45.8	49.6	45.4
03:00-04:00 HOUR	47.4	70.8	45.6
04:00-05:00 HOUR	52.3	73.9	45.8
05:00-06:00 HOUR	56.8	74.3	46.8
06:00-07:00 HOUR	62.1	86.9	47.7
L _{Aeq} 24 hours		55.8	

Sila Banjongjairuk
(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 24, 2022

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)

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 SOURCE : วัดค่าเสียง

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 6-9, 2022

MEASURING TIME : *

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR WORRAPONG NONTHAJAN

RECEIVED DATE : MARCH 6-9, 2022

ANALYTICAL DATE : MARCH 6-9, 2022

REPORT NO. : 2022-U020802

WORK NO. : 2021-001118

ANALYSIS NO. : T22AE746-0016 - T22AE746-0018

TIME*	RESULT dB(A)		
	วัดค่าเสียง		
	MARCH 6 - 7, 2022		
	T22AE746-0016		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.9	87.5	45.5
08:00-09:00 HOUR	54.9	85.9	45.7
09:00-10:00 HOUR	53.4	77.8	45.6
10:00-11:00 HOUR	52.3	76.2	44.3
11:00-12:00 HOUR	52.9	75.9	46.3
12:00-13:00 HOUR	52.5	76.7	44.4
13:00-14:00 HOUR	47.5	68.3	43.0
14:00-15:00 HOUR	48.0	72.6	42.9
15:00-16:00 HOUR	49.0	74.8	42.7
16:00-17:00 HOUR	53.2	78.9	43.6
17:00-18:00 HOUR	47.8	74.9	43.3
18:00-19:00 HOUR	50.1	70.4	43.8
19:00-20:00 HOUR	52.5	67.4	51.2
20:00-21:00 HOUR	52.2	85.6	48.7
21:00-22:00 HOUR	48.7	58.3	47.3
22:00-23:00 HOUR	49.0	59.0	47.3
23:00-00:00 HOUR	48.7	58.9	46.8
00:00-01:00 HOUR	48.4	58.9	46.5
01:00-02:00 HOUR	47.8	59.0	45.9
02:00-03:00 HOUR	49.1	67.8	45.7
03:00-04:00 HOUR	48.9	66.4	45.5
04:00-05:00 HOUR	49.3	68.6	45.2
05:00-06:00 HOUR	55.1	73.2	48.9
06:00-07:00 HOUR	61.0	80.3	45.2
L _{Aeq} 24 hours		52.9	

TIME*	RESULT dB(A)		
	วัดค่าเสียง		
	MARCH 7 - 8, 2022		
	T22AE746-0017		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.9	76.8	41.9
08:00-09:00 HOUR	55.1	77.4	41.4
09:00-10:00 HOUR	51.6	76.4	41.3
10:00-11:00 HOUR	53.2	84.6	44.9
11:00-12:00 HOUR	52.5	77.9	43.2
12:00-13:00 HOUR	50.5	76.3	44.0
13:00-14:00 HOUR	51.9	71.7	43.9
14:00-15:00 HOUR	49.5	75.9	43.9
15:00-16:00 HOUR	58.0	76.6	52.9
16:00-17:00 HOUR	60.1	83.4	52.7
17:00-18:00 HOUR	49.9	78.2	43.4
18:00-19:00 HOUR	54.3	71.1	43.5
19:00-20:00 HOUR	55.4	83.6	53.3
20:00-21:00 HOUR	54.0	80.6	51.0
21:00-22:00 HOUR	50.8	76.3	49.5
22:00-23:00 HOUR	51.1	63.3	49.9
23:00-00:00 HOUR	50.5	57.5	49.4
00:00-01:00 HOUR	50.2	60.3	48.4
01:00-02:00 HOUR	49.5	59.7	47.4
02:00-03:00 HOUR	49.0	65.3	45.6
03:00-04:00 HOUR	48.1	59.0	44.8
04:00-05:00 HOUR	50.6	71.8	44.1
05:00-06:00 HOUR	53.2	68.7	45.9
06:00-07:00 HOUR	57.7	81.8	43.8
L _{Aeq} 24 hours		53.9	



TIME*	RESULT dB(A)		
	วัดค่าเสียงบรรยากาศ		
	MARCH 8 - 9, 2022		
	T22AE746-0018		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	50.9	79.3	41.5
08:00-09:00 HOUR	53.3	74.5	41.7
09:00-10:00 HOUR	55.7	79.6	40.4
10:00-11:00 HOUR	60.8	85.3	45.1
11:00-12:00 HOUR	52.4	78.7	39.6
12:00-13:00 HOUR	52.4	69.8	40.4
13:00-14:00 HOUR	51.2	84.2	42.2
14:00-15:00 HOUR	54.4	81.4	43.4
15:00-16:00 HOUR	58.5	79.2	53.7
16:00-17:00 HOUR	62.4	84.7	52.5
17:00-18:00 HOUR	66.2	90.2	51.2
18:00-19:00 HOUR	53.5	81.3	42.6
19:00-20:00 HOUR	50.8	75.5	46.1
20:00-21:00 HOUR	55.1	74.8	47.0
21:00-22:00 HOUR	61.3	76.4	53.1
22:00-23:00 HOUR	62.8	77.6	55.7
23:00-00:00 HOUR	63.5	80.4	53.6
00:00-01:00 HOUR	62.9	78.3	50.4
01:00-02:00 HOUR	59.9	77.1	48.3
02:00-03:00 HOUR	61.9	78.5	48.2
03:00-04:00 HOUR	63.0	78.8	48.3
04:00-05:00 HOUR	60.4	78.7	50.4
05:00-06:00 HOUR	61.3	78.1	51.0
06:00-07:00 HOUR	64.7	86.2	47.5
L _{Aeq} 24 hours		60.6	

Sila Banjongjairuk

(MR. SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022

ภาคผนวก ง-3

หนังสือรับรองผลการตรวจวิเคราะห์คุณภาพน้ำ



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : MARCH 24, 2022
SAMPLING TIME : 13:50 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 25, 2022
ANALYTICAL DATE : MARCH 25 - APRIL 1, 2022
REPORT NO. : 2022-U025219
WORK NO. : 2021-001118
ANALYSIS NO. : T22AF797-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มาตรฐานทดสอบ T22AF797-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.6 (30°C)	-
WATER LEVEL °	m	WATER LEVEL METER	26.1	-
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	0.3	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	534	25
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL HARDNESS °	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: 2340 C)	453	4.0
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: 4500-SO ₄ ²⁻ E)	3.7	0.3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0005	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
			มาตรฐานทดสอบ T22AF797-0001	
LEAD °	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
SAMPLE CONDITION			COLOURLESS/CLEAR	
WATER'S COLOUR/TURBID SEDIMENT				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : 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, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE.

< LOQ : < LEVEL OF QUANTITATION (IRON ≥ 0.005 AND < 0.050 mg/L).

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

MAY 18, 2022



ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : MARCH 24, 2022
SAMPLING TIME : 14:16 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 25, 2022
ANALYTICAL DATE : MARCH 25 - APRIL 1, 2022
REPORT NO. : 2022-U025220
WORK NO. : 2021-001118
ANALYSIS NO. : T22AF797-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			น้ำหนักของน้ำแดง T22AF797-0002	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.8 (28°C)	-
WATER LEVEL ^c	m	WATER LEVEL METER	19.0	-
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	0.3	0.1
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	562	25
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL HARDNESS ^a	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: 2340 C)	412	4.0
SULPHATE ^c	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: 4500-SO ₄ ²⁻ E)	25.6	0.3
METALS				
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0003
CADMIUM ^c	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 ^c	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
			น้ำหนักของน้ำแดง T22AF797-0002	
LEAD ^c	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
SAMPLE CONDITION			COLOURLESS/CLEAR	
WATER'S COLOUR/TURBID SEDIMENT				

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : 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, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE.

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

MAY 18, 2022

ANALYSIS REPORT

PROJECT NAME : SIAM CITY CEMENT PUBLIC COMPANY LIMITED (QUARRY-KDD)
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 : MARCH 24, 2022
SAMPLING TIME : 13:29 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 25, 2022
ANALYTICAL DATE : MARCH 25 - APRIL 1, 2022
REPORT NO. : 2022-U025221
WORK NO. : 2021-001118
ANALYSIS NO. : T22AF797-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มาตรฐาน T22AF797-0003	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.4 (29°C)	-
WATER LEVEL ^c	m	WATER LEVEL METER	28.7	-
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	0.3	0.1
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	450	25
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	ND	5.0
TOTAL HARDNESS ^a	mg/L as CaCO ₃	EDTA TITRIMETRIC METHOD (SM: 2340 C)	437	4.0
SULPHATE ^c	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: 4500-SO ₄ ²⁻ E)	ND	0.3
METALS				
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0003	0.0003
CADMIUM ^c	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 ^c	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 T22AF797-0003	
LEAD ^c	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
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
^c : 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, 23rd EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
ND : NON-DETECTABLE.
< LOQ : < LEVEL OF QUANTITATION (IRON ≥ 0.005 AND < 0.050 mg/L).

Bhuchonk p.
(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

MAY 18, 2022

