

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 KAENGKOTI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านขลุ่ยบันได
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-U020877
WORK NO. : 2021-001117
ANALYSIS NO. : T22AE747-0001 - T22AE747-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านขลุ่ยบันได		
			* T22AE747-0001	** T22AE747-0002	*** T22AE747-0003
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.063	0.059	0.052
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.032	0.028	0.028
SAMPLE CONDITION			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 MARCH 3, 2022 TO 10:30 HOUR ON MARCH 4, 2022.
** : SAMPLING FROM 10:30 HOUR ON MARCH 4, 2022 TO 10:30 HOUR ON MARCH 5, 2022.
*** : SAMPLING FROM 10:30 HOUR ON MARCH 5, 2022 TO 10:30 HOUR ON MARCH 6, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 29, 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 KAENGKOTI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านขลุ่ยประหวาด
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-U020878
WORK NO. : 2021-001117
ANALYSIS NO. : T22AE747-0004 - T22AE747-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านขลุ่ยประหวาด		
			* T22AE747-0004	** T22AE747-0005	*** T22AE747-0006
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.050	0.039	0.045
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.033	0.022	0.034
SAMPLE CONDITION			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 MARCH 3, 2022 TO 11:00 HOUR ON MARCH 4, 2022.
** : SAMPLING FROM 11:00 HOUR ON MARCH 4, 2022 TO 11:00 HOUR ON MARCH 5, 2022.
*** : SAMPLING FROM 11:00 HOUR ON MARCH 5, 2022 TO 11:00 HOUR ON MARCH 6, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 29, 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 KAENGKOEI SARABURI 18260
CONTACT INFORMATION : TEL : 08 1929 1310 e-mail : PIYAWAT.PHOTIMONGKONKUL@SIAMCITYCEMENT.COM
SAMPLING SOURCE : บ้านบุ่งนาค
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-U020879
WORK NO. : 2021-001117
ANALYSIS NO. : T22AE747-0007 - T22AE747-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านบุ่งนาค		
			* T22AE747-0007	** T22AE747-0008	*** T22AE747-0009
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.051	0.042	0.040
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.041	0.031	0.030
SAMPLE CONDITION			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 MARCH 3, 2022 TO 10:00 HOUR ON MARCH 4, 2022.
** : SAMPLING FROM 10:00 HOUR ON MARCH 4, 2022 TO 10:00 HOUR ON MARCH 5, 2022.
*** : SAMPLING FROM 10:00 HOUR ON MARCH 5, 2022 TO 10:00 HOUR ON MARCH 6, 2022.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 29, 2022

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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 : บ้านบุ่งนาค
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : MARCH 3-6, 2022
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR WORRAPONG NONTAJAN

RECEIVED DATE : MARCH 3-6, 2022
ANALYTICAL DATE : MARCH 3-6, 2022
REPORT NO. : 2022-U020756
WORK NO. : 2021-001117
ANALYSIS NO. : T22AE747-0001 - T22AE747-0003

TIME *	RESULT (m/s)					
	บ้านบุ่งนาค					
	MARCH 3 - 4, 2022 T22AE747-0001		MARCH 4 - 5, 2022 T22AE747-0002		MARCH 5 - 6, 2022 T22AE747-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.5	SSW	1.6	S	1.5	SSW
08:00-09:00 HOUR	1.3	SSW	1.4	SSW	1.9	SSW
09:00-10:00 HOUR	1	SSE	1.6	SSW	1.7	SSW
10:00-11:00 HOUR	1.1	SSE	1.9	SSW	1.5	SSW
11:00-12:00 HOUR	1.4	SSW	2	SW	1.2	SW
12:00-13:00 HOUR	1.2	S	2.1	SSW	1	SW
13:00-14:00 HOUR	0.9	S	1.7	SW	0.9	SSE
14:00-15:00 HOUR	1.3	SW	1.8	SSW	0.8	SE
15:00-16:00 HOUR	1.2	S	1.4	WSW	1	SSE
16:00-17:00 HOUR	2.1	SW	1.7	S	0.7	SSE
17:00-18:00 HOUR	2	S	1.8	SSW	0.8	S
18:00-19:00 HOUR	1.7	S	1.4	SW	1.3	SE
19:00-20:00 HOUR	1.9	SSE	1.9	SW	0.9	SSW
20:00-21:00 HOUR	2.1	S	2.2	S	1.1	SSW
21:00-22:00 HOUR	1.4	SSE	1.7	S	1.2	S
22:00-23:00 HOUR	1	S	1.6	S	0.8	SSW
23:00-00:00 HOUR	1.3	SSE	1.5	S	1	SSW
00:00-01:00 HOUR	1.2	SSE	1.9	S	0.9	SSW
01:00-02:00 HOUR	1.5	S	1.4	SSE	1.1	SSE
02:00-03:00 HOUR	1	SSE	2	SSE	0.9	SSE
03:00-04:00 HOUR	1.1	SSE	2.1	SSE	0.8	S
04:00-05:00 HOUR	1.3	S	1.9	SSE	1.2	SSE
05:00-06:00 HOUR	2.2	SSE	1.4	S	1	SSE
06:00-07:00 HOUR	1.7	SSW	1.7	S	0.9	S

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(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022

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United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260

Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

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)

MEASURING DATE : MARCH 3-6, 2022

MEASURING TIME : *

MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT

MEASURED BY : MR WORRAPONG NONTHAJAN

RECEIVED DATE : MARCH 3-6, 2022

ANALYTICAL DATE : MARCH 3-6, 2022

REPORT NO. : 2022-U020758

WORK NO. : 2021-001117

ANALYSIS NO. : T22AE747-0004 - T22AE747-0006

TIME *	RESULT (m/s)					
	บ้านชลประทาน					
	MARCH 3 - 4, 2022 T22AE747-0004		MARCH 4 - 5, 2022 T22AE747-0005		MARCH 5 - 6, 2022 T22AE747-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	0.9	SSW	2	SSW	1.8	S
08:00-09:00 HOUR	1	SW	1.7	S	1.7	SSE
09:00-10:00 HOUR	0.8	S	2.1	S	1.9	S
10:00-11:00 HOUR	1.2	WSW	1.4	SSW	1.6	SW
11:00-12:00 HOUR	1.7	SSW	2	S	1.4	SSW
12:00-13:00 HOUR	1.3	SSW	2.1	S	1	SW
13:00-14:00 HOUR	1.4	SSW	1.6	SSW	1.2	SW
14:00-15:00 HOUR	1.5	SSE	2.1	SSW	1.5	SW
15:00-16:00 HOUR	1.6	S	1.5	S	1.3	SW
16:00-17:00 HOUR	1.2	SSE	1.3	S	1.4	SW
17:00-18:00 HOUR	0.9	SSW	1.6	SSE	1.7	SSW
18:00-19:00 HOUR	1.2	SSE	1.8	SE	1.6	SW
19:00-20:00 HOUR	1	SSW	1.4	SSE	1.4	SSW
20:00-21:00 HOUR	0.8	SSW	2.2	SSW	1.9	SSW
21:00-22:00 HOUR	1.1	SE	1.4	SSW	1.3	SW
22:00-23:00 HOUR	1.3	S	1.6	SSE	0.9	S
23:00-00:00 HOUR	1.5	SSE	1.3	SSW	1.1	SSW
00:00-01:00 HOUR	1	SSE	1.1	S	0.8	SW
01:00-02:00 HOUR	1.3	SSE	0.9	SSE	1	SW
02:00-03:00 HOUR	1.2	S	0.8	SSE	0.9	SSW
03:00-04:00 HOUR	1.6	SSE	0.7	S	0.7	WSW
04:00-05:00 HOUR	1.7	S	1	S	0.8	WSW
05:00-06:00 HOUR	1.5	S	1.3	SSE	0.9	WSW
06:00-07:00 HOUR	1.9	SSE	1.1	S	1	SSW

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(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022

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3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260

Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

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)

MEASURING DATE : MARCH 3-6, 2022

MEASURING TIME : *

MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT

MEASURED BY : MR WORRAPONG NONTHAJAN

RECEIVED DATE : MARCH 3-6, 2022

ANALYTICAL DATE : MARCH 3-6, 2022

REPORT NO. : 2022-U020760

WORK NO. : 2021-001117

ANALYSIS NO. : T22AE747-0007 - T22AE747-0009

TIME *	RESULT (m/s)					
	บ้านชลประทาน					
	MARCH 3 - 4, 2022 T22AE747-0007		MARCH 4 - 5, 2022 T22AE747-0008		MARCH 5 - 6, 2022 T22AE747-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	0.9	SSW	2.1	S	1.1	SSW
08:00-09:00 HOUR	1.1	S	1.7	SSW	1.3	WSW
09:00-10:00 HOUR	1	SSW	2	S	1.5	SW
10:00-11:00 HOUR	0.8	SSW	1.8	S	1.4	WSW
11:00-12:00 HOUR	1.2	SSW	1.7	SSW	1	SW
12:00-13:00 HOUR	0.7	SSW	1.9	SSW	0.7	SW
13:00-14:00 HOUR	1	S	2	SW	1.3	SSE
14:00-15:00 HOUR	1.1	S	2.3	SSW	1.5	SSW
15:00-16:00 HOUR	0.9	S	1.6	SSW	1.7	S
16:00-17:00 HOUR	1.3	S	1.4	SW	1.3	SW
17:00-18:00 HOUR	1.4	SSW	2	S	2.1	WSW
18:00-19:00 HOUR	1.1	SSW	2.1	SSE	2	SW
19:00-20:00 HOUR	1.2	SSW	2.2	SSE	2.2	SSW
20:00-21:00 HOUR	1.4	S	1.9	S	1.8	SW
21:00-22:00 HOUR	1	S	1.8	S	1.6	S
22:00-23:00 HOUR	0.8	S	1.7	S	1.2	S
23:00-00:00 HOUR	1.3	S	1.6	S	1	S
00:00-01:00 HOUR	1.4	SSE	1.2	SSW	1.1	S
01:00-02:00 HOUR	1.7	SSE	0.9	SSE	1.3	S
02:00-03:00 HOUR	2	SSE	0.7	WSW	0.9	SSW
03:00-04:00 HOUR	1.9	S	1.1	SSW	0.8	S
04:00-05:00 HOUR	1.7	SSE	1	W	1.1	SSW
05:00-06:00 HOUR	1.6	SSW	0.7	SW	1	WSW
06:00-07:00 HOUR	1.5	S	1.2	SW	0.9	SW

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(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 2022

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ภาคผนวก ง-2

หนังสือรับรองผลการตรวจวิเคราะห์ระดับเสียง



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 SOURCE : บ้านปูนตาด

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 3-6, 2022

MEASURING TIME : *

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR WORRAPONG NONTHAJAN

RECEIVED DATE : MARCH 3-6, 2022

ANALYTICAL DATE : MARCH 3-6, 2022

REPORT NO. : 2022-U020762

WORK NO. : 2021-001117

ANALYSIS NO. : T22AE747-0010 - T22AE747-0012

TIME*	RESULT dB(A)		
	บ้านปูนตาด		
	MARCH 3 - 4, 2022		
	T22AE747-0010		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	48.8	63.1	41.0
08:00-09:00 HOUR	55.2	82.5	38.4
09:00-10:00 HOUR	46.1	61.7	39.2
10:00-11:00 HOUR	46.5	64.5	38.2
11:00-12:00 HOUR	48.5	70.2	38.6
12:00-13:00 HOUR	49.0	74.3	39.1
13:00-14:00 HOUR	45.3	63.3	39.4
14:00-15:00 HOUR	44.3	65.2	39.0
15:00-16:00 HOUR	48.3	72.6	39.2
16:00-17:00 HOUR	49.3	72.7	39.5
17:00-18:00 HOUR	50.9	73.5	45.7
18:00-19:00 HOUR	51.0	75.3	41.9
19:00-20:00 HOUR	47.5	70.4	43.1
20:00-21:00 HOUR	44.8	58.6	42.4
21:00-22:00 HOUR	45.9	59.3	43.1
22:00-23:00 HOUR	44.0	62.2	40.9
23:00-00:00 HOUR	41.8	53.2	39.4
00:00-01:00 HOUR	40.4	55.9	37.8
01:00-02:00 HOUR	42.3	60.4	37.8
02:00-03:00 HOUR	42.0	52.5	38.2
03:00-04:00 HOUR	42.7	58.5	38.0
04:00-05:00 HOUR	41.7	57.9	38.8
05:00-06:00 HOUR	45.5	64.8	41.9
06:00-07:00 HOUR	50.1	66.4	43.9
L _{Aeq} 24 hours		47.9	

TIME*	RESULT dB(A)		
	บ้านปูนตาด		
	MARCH 4 - 5, 2022		
	T22AE747-0011		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	47.8	63.9	41.3
08:00-09:00 HOUR	53.5	73.6	39.7
09:00-10:00 HOUR	46.5	63.3	40.2
10:00-11:00 HOUR	47.4	67.6	40.3
11:00-12:00 HOUR	48.6	69.1	39.9
12:00-13:00 HOUR	47.2	66.1	39.4
13:00-14:00 HOUR	45.1	64.9	39.5
14:00-15:00 HOUR	46.5	66.3	40.2
15:00-16:00 HOUR	47.6	66.9	39.8
16:00-17:00 HOUR	50.3	75.8	44.6
17:00-18:00 HOUR	45.7	62.3	39.0
18:00-19:00 HOUR	55.4	76.3	40.5
19:00-20:00 HOUR	48.1	65.8	44.2
20:00-21:00 HOUR	45.5	61.7	42.8
21:00-22:00 HOUR	44.4	54.3	41.7
22:00-23:00 HOUR	44.7	67.3	40.3
23:00-00:00 HOUR	45.8	60.0	40.1
00:00-01:00 HOUR	40.8	51.1	37.6
01:00-02:00 HOUR	42.0	58.7	37.9
02:00-03:00 HOUR	43.3	50.8	38.2
03:00-04:00 HOUR	42.3	58.5	37.9
04:00-05:00 HOUR	42.7	61.8	37.8
05:00-06:00 HOUR	43.3	59.1	40.0
06:00-07:00 HOUR	48.6	64.3	43.0
L _{Aeq} 24 hours		48.0	



TIME*	RESULT dB(A)		
	รายงานผลการตรวจวัด		
	MARCH 5 - 6, 2022		
	T22AE747-0012		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.4	63.8	41.7
08:00-09:00 HOUR	50.9	75.7	40.2
09:00-10:00 HOUR	46.8	61.8	41.6
10:00-11:00 HOUR	48.5	66.2	42.0
11:00-12:00 HOUR	47.7	65.4	42.0
12:00-13:00 HOUR	52.2	79.5	42.2
13:00-14:00 HOUR	46.5	62.7	41.9
14:00-15:00 HOUR	46.7	66.2	41.7
15:00-16:00 HOUR	47.6	68.0	41.9
16:00-17:00 HOUR	55.4	86.9	46.4
17:00-18:00 HOUR	53.4	76.9	46.4
18:00-19:00 HOUR	59.1	84.5	41.3
19:00-20:00 HOUR	46.6	64.0	43.4
20:00-21:00 HOUR	45.1	60.1	42.7
21:00-22:00 HOUR	44.9	56.2	42.6
22:00-23:00 HOUR	44.9	62.7	40.6
23:00-00:00 HOUR	45.4	61.8	40.1
00:00-01:00 HOUR	41.2	56.8	37.9
01:00-02:00 HOUR	40.7	55.5	37.9
02:00-03:00 HOUR	42.3	52.2	38.2
03:00-04:00 HOUR	41.5	56.2	37.7
04:00-05:00 HOUR	43.5	63.8	38.7
05:00-06:00 HOUR	45.5	64.2	40.9
06:00-07:00 HOUR	48.6	62.4	42.9
L _{Aeq} 24 hours	50.1		

Sila
(MR SILA BANONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 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 SOURCE : บ้านชลประทาน

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 3-6, 2022

MEASURING TIME : *

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR WORRAPONG NONTAJAN

RECEIVED DATE : MARCH 3-6, 2022

ANALYTICAL DATE : MARCH 3-6, 2022

REPORT NO. : 2022-U020764

WORK NO. : 2021-001117

ANALYSIS NO. : T22AE747-0013 - T22AE747-0015

TIME*	RESULT dB(A)		
	รายงานผลการตรวจวัด		
	MARCH 3 - 4, 2022		
	T22AE747-0013		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	53.6	77.6	49.7
08:00-09:00 HOUR	50.9	77.2	46.5
09:00-10:00 HOUR	52.4	75.7	46.5
10:00-11:00 HOUR	52.4	80.7	47.6
11:00-12:00 HOUR	51.4	79.3	46.5
12:00-13:00 HOUR	53.6	84.3	45.9
13:00-14:00 HOUR	50.2	70.8	45.8
14:00-15:00 HOUR	50.3	78.3	43.7
15:00-16:00 HOUR	52.8	79.1	40.0
16:00-17:00 HOUR	47.8	75.7	39.0
17:00-18:00 HOUR	50.3	71.9	41.8
18:00-19:00 HOUR	53.8	77.4	50.9
19:00-20:00 HOUR	53.5	75.5	50.1
20:00-21:00 HOUR	50.7	73.9	46.0
21:00-22:00 HOUR	49.0	65.6	46.2
22:00-23:00 HOUR	48.8	62.0	44.8
23:00-00:00 HOUR	48.3	66.8	44.2
00:00-01:00 HOUR	48.0	62.1	44.9
01:00-02:00 HOUR	49.9	71.6	44.6
02:00-03:00 HOUR	47.8	58.6	45.0
03:00-04:00 HOUR	47.5	58.7	45.4
04:00-05:00 HOUR	50.2	66.5	47.5
05:00-06:00 HOUR	53.8	68.3	51.8
06:00-07:00 HOUR	55.8	68.9	54.3
L _{Aeq} 24 hours	51.6		



TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	MARCH 4 - 5, 2022		
	T22AE747-0014		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	54.5	77.8	49.5
08:00-09:00 HOUR	53.0	81.5	46.9
09:00-10:00 HOUR	51.3	72.9	46.3
10:00-11:00 HOUR	51.9	80.0	46.3
11:00-12:00 HOUR	51.8	80.4	46.0
12:00-13:00 HOUR	51.2	79.3	47.4
13:00-14:00 HOUR	50.0	71.0	47.0
14:00-15:00 HOUR	49.9	73.6	45.9
15:00-16:00 HOUR	52.1	78.1	42.4
16:00-17:00 HOUR	53.1	74.0	47.1
17:00-18:00 HOUR	50.2	72.9	42.8
18:00-19:00 HOUR	53.2	78.6	48.7
19:00-20:00 HOUR	50.6	64.6	47.9
20:00-21:00 HOUR	50.7	63.0	47.6
21:00-22:00 HOUR	50.0	66.1	47.4
22:00-23:00 HOUR	48.7	57.8	46.0
23:00-00:00 HOUR	48.1	67.0	45.5
00:00-01:00 HOUR	48.5	59.0	46.0
01:00-02:00 HOUR	50.5	71.4	45.8
02:00-03:00 HOUR	48.1	55.7	45.9
03:00-04:00 HOUR	48.1	61.1	46.2
04:00-05:00 HOUR	50.6	62.1	48.4
05:00-06:00 HOUR	53.6	69.9	52.3
06:00-07:00 HOUR	54.5	72.2	52.9
L _{Aeq} 24 hours		51.4	

TIME*	RESULT dB(A)		
	บ้านชลประทาน		
	MARCH 5 - 6, 2022		
	T22AE747-0015		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	52.6	68.4	48.4
08:00-09:00 HOUR	49.5	72.7	43.9
09:00-10:00 HOUR	48.7	72.4	42.7
10:00-11:00 HOUR	49.0	77.5	41.9
11:00-12:00 HOUR	48.3	72.3	40.2
12:00-13:00 HOUR	49.7	79.2	40.8
13:00-14:00 HOUR	46.3	70.6	40.3
14:00-15:00 HOUR	47.2	75.5	39.3
15:00-16:00 HOUR	52.9	78.9	40.5
16:00-17:00 HOUR	52.8	76.2	45.0
17:00-18:00 HOUR	51.4	74.2	42.1
18:00-19:00 HOUR	51.9	69.8	46.6
19:00-20:00 HOUR	51.5	74.1	46.9
20:00-21:00 HOUR	51.8	72.4	47.4
21:00-22:00 HOUR	49.2	63.6	46.5
22:00-23:00 HOUR	47.8	59.5	44.7
23:00-00:00 HOUR	47.5	73.6	43.9
00:00-01:00 HOUR	46.4	57.0	44.2
01:00-02:00 HOUR	46.7	54.9	44.3
02:00-03:00 HOUR	47.7	56.1	44.8
03:00-04:00 HOUR	48.3	61.5	46.3
04:00-05:00 HOUR	50.7	61.0	47.8
05:00-06:00 HOUR	54.4	66.4	52.2
06:00-07:00 HOUR	56.4	75.2	54.5
L _{Aeq} 24 hours		50.8	

Sila Banjongjairuk
(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 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 SOURCE : มาตรการ

MEASURING TYPE : AMBIENT (NOISE)

MEASURING DATE : MARCH 3-6, 2022

MEASURING TIME : *

MEASURING METHOD : INTEGRATED SOUND LEVEL METER

MEASURED BY : MR WORRAPONG NONTHAJAN

RECEIVED DATE : MARCH 3-6, 2022

ANALYTICAL DATE : MARCH 3-6, 2022

REPORT NO. : 2022-U020765

WORK NO. : 2021-001117

ANALYSIS NO. : T22AE747-0016 - T22AE747-0018

TIME*	RESULT dB(A)		
	มาตรการ		
	MARCH 3 - 4, 2022		
	T22AE747-0016		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.5	75.7	47.6
08:00-09:00 HOUR	54.2	75.6	44.8
09:00-10:00 HOUR	54.5	78.6	44.0
10:00-11:00 HOUR	53.3	79.1	43.6
11:00-12:00 HOUR	51.5	72.6	43.8
12:00-13:00 HOUR	54.6	78.9	43.7
13:00-14:00 HOUR	52.5	78.4	43.7
14:00-15:00 HOUR	55.6	78.1	43.8
15:00-16:00 HOUR	51.3	73.9	43.6
16:00-17:00 HOUR	52.3	75.6	43.6
17:00-18:00 HOUR	54.0	75.6	45.0
18:00-19:00 HOUR	60.1	75.9	49.7
19:00-20:00 HOUR	62.4	79.5	60.1
20:00-21:00 HOUR	60.8	71.3	58.1
21:00-22:00 HOUR	58.7	69.1	56.3
22:00-23:00 HOUR	56.4	63.2	52.9
23:00-00:00 HOUR	54.1	67.7	50.2
00:00-01:00 HOUR	54.7	65.1	48.3
01:00-02:00 HOUR	55.7	70.9	47.5
02:00-03:00 HOUR	53.4	64.6	48.7
03:00-04:00 HOUR	54.1	69.8	49.9
04:00-05:00 HOUR	55.4	70.2	48.5
05:00-06:00 HOUR	58.9	75.3	51.7
06:00-07:00 HOUR	58.0	81.5	50.4
L _{Aeq} 24 hours		56.6	

TIME*	RESULT dB(A)		
	มาตรการ		
	MARCH 4 - 5, 2022		
	T22AE747-0017		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.9	80.5	46.7
08:00-09:00 HOUR	53.5	73.7	44.7
09:00-10:00 HOUR	51.9	75.2	43.7
10:00-11:00 HOUR	54.6	80.6	43.6
11:00-12:00 HOUR	51.9	75.7	43.6
12:00-13:00 HOUR	54.9	83.1	43.8
13:00-14:00 HOUR	59.8	84.7	43.8
14:00-15:00 HOUR	53.7	81.3	43.6
15:00-16:00 HOUR	51.2	76.6	43.6
16:00-17:00 HOUR	52.8	77.3	43.8
17:00-18:00 HOUR	53.1	76.2	44.2
18:00-19:00 HOUR	56.4	75.7	45.3
19:00-20:00 HOUR	60.1	75.2	57.1
20:00-21:00 HOUR	59.0	71.1	55.4
21:00-22:00 HOUR	57.9	68.8	55.1
22:00-23:00 HOUR	56.3	63.2	53.1
23:00-00:00 HOUR	54.5	68.0	50.7
00:00-01:00 HOUR	56.3	65.2	50.7
01:00-02:00 HOUR	57.4	67.5	49.4
02:00-03:00 HOUR	55.7	69.9	50.5
03:00-04:00 HOUR	54.9	73.2	49.9
04:00-05:00 HOUR	55.8	70.1	48.4
05:00-06:00 HOUR	58.0	73.2	51.1
06:00-07:00 HOUR	57.9	80.4	49.7
L _{Aeq} 24 hours		56.2	



TIME*	RESULT dB(A)		
	รายงานผลตรวจวัด		
	MARCH 5 - 6, 2022		
	T22AE747-0018		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.0	82.4	47.1
08:00-09:00 HOUR	55.5	76.0	44.8
09:00-10:00 HOUR	52.9	74.9	44.0
10:00-11:00 HOUR	54.5	77.4	43.8
11:00-12:00 HOUR	51.3	74.4	43.9
12:00-13:00 HOUR	54.3	80.2	43.8
13:00-14:00 HOUR	59.3	82.9	44.0
14:00-15:00 HOUR	52.9	80.8	43.7
15:00-16:00 HOUR	51.3	75.2	43.7
16:00-17:00 HOUR	52.2	76.0	43.9
17:00-18:00 HOUR	55.3	76.1	45.5
18:00-19:00 HOUR	57.2	75.3	49.3
19:00-20:00 HOUR	60.7	79.6	57.8
20:00-21:00 HOUR	59.6	66.8	56.4
21:00-22:00 HOUR	59.1	65.1	56.1
22:00-23:00 HOUR	57.8	64.3	54.4
23:00-00:00 HOUR	55.9	64.0	51.9
00:00-01:00 HOUR	55.9	62.7	52.3
01:00-02:00 HOUR	52.7	64.4	48.4
02:00-03:00 HOUR	51.2	63.3	46.9
03:00-04:00 HOUR	51.7	71.2	46.0
04:00-05:00 HOUR	56.4	72.5	47.1
05:00-06:00 HOUR	59.1	74.8	51.0
06:00-07:00 HOUR	55.8	74.7	50.2
L _{Aeq} 24 hours		56.3	



(MR. SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 24, 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 : MARCH 24, 2022
SAMPLING TIME : 13:03 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-U025234
WORK NO. : 2021-001117
ANALYSIS NO. : T22AF794-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มาตรฐาน T22AF794-0001	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.7 (29°C)	-
TURBIDITY ^c	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	0.1	0.1
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	404	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)	380	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)	0.0004	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 T22AF794-0001	
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).



(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 7, 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 KAENGKOT 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-U025236
WORK NO. : 2021-001117
ANALYSIS NO. : T22AF794-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บ้านชลประทาน T22AF794-0002	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.4 (29°C)	-
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
			บ้านชลประทาน T22AF794-0002	
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

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

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 7, 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 KAENGKOT 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 : 12:53 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-U025237
WORK NO. : 2021-001117
ANALYSIS NO. : T22AF794-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			มาตรฐาน T22AF794-0003	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H ⁺ B)	7.2 (29°C)	-
TURBIDITY °	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	ND	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	499	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)	441	4.0
SULPHATE °	mg/L SO ₄ ²⁻	TURBIDIMETRIC METHOD (SM: 4500-SO ₄ ²⁻ E)	5.7	0.3
METALS				
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 T22AF794-0003	
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				
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	
SEDIMENT				

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

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

* : 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).



(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 7, 2022

