

ภาคผนวก ค

รายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม





TEST REPORT

Analysis No. : R24-2219
Received Date : 25/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 25-27/06/24
Job No. : S670606/June
Sampling By : TET
Type of Sample : Ambient Air

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783

Sampling Point	Sample No.	Sampling Date	Result		Analysis Date
			ฝุ่นละอองรวม (TSP) (mg/m ³)	ฝุ่นละอองขนาดเล็กไม่เกิน 10 ไมครอน (PM-10) (mg/m ³)	
โรงเรียนวัดบำเพ็ญพรต (47P 0697415 UTM 1615054)	2406-AA0896	21-22/06/24	0.039	0.020	25-27/06/24
	2406-AA0901	22-23/06/24	0.028	0.018	25-27/06/24
	2406-AA0906	23-24/06/24	0.040	0.015	25-27/06/24
โรงเรียนบ้านสันประดู่ (47P 0697094 UTM 1613295)	2406-AA0897	21-22/06/24	0.021	0.013	25-27/06/24
	2406-AA0902	22-23/06/24	0.020	0.011	25-27/06/24
	2406-AA0907	23-24/06/24	0.018	0.007	25-27/06/24
บ้านสันประดู่ (47P 0696886 UTM 1613297)	2406-AA0898	21-22/06/24	0.030	0.013	25-27/06/24
	2406-AA0903	22-23/06/24	0.016	0.010	25-27/06/24
	2406-AA0908	23-24/06/24	0.029	0.014	25-27/06/24
บ้านหนองโพธิ์ (47P 0695738 UTM 1613449)	2406-AA0899	21-22/06/24	0.030	0.019	25-27/06/24
	2406-AA0904	22-23/06/24	0.014	0.003	25-27/06/24
	2406-AA0909	23-24/06/24	0.017	0.005	25-27/06/24
โรงเรียนวัดหนองถ่านเหนือ (47P 0695322 UTM 1615778)	2406-AA0900	21-22/06/24	0.041	0.016	25-27/06/24
	2406-AA0905	22-23/06/24	0.045	0.017	25-27/06/24
	2406-AA0910	23-24/06/24	0.038	0.013	25-27/06/24
Standard			0.33	0.12	

Method : TSP = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix B)
PM-10 = Gravimetric Method (US.EPA 40 CFR Part 50 Appendix J)
Standard : Notification of the National Environment Board No. 10 (1995) (B.E. 2538) and No. 24 (2004) (B.E. 2547), 24-hr. average value

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04.07.24



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
04.07.24

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน) REPORT NO. : 2219/2024/1-5
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์ REPORT DATE : July 1, 2024
คำขอประทานบัตรที่ 20/2551 SAMPLING DATE : June 21-24, 2024
เลขประทานบัตร 33323/15953 TYPE OF SAMPLE : Sound Level
Address : จังหวัดสระบุรี
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Job No. : S670606/June

Item	Time	Result (dB (A))								
		โรงเรียนวัดบำเพ็ญพรต								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	11.00-12.00	49.9	68.6	43.9	47.7	54.2	46.4	46.6	62.3	45.7
2.	12.00-13.00	49.8	68.0	44.5	45.4	58.1	43.5	48.7	61.7	45.7
3.	13.00-14.00	51.6	68.6	45.3	45.5	58.7	43.8	49.4	64.5	46.0
4.	14.00-15.00	54.4	69.0	45.7	44.8	60.5	43.9	48.7	59.5	46.1
5.	15.00-16.00	57.4	68.3	47.6	46.9	59.9	43.9	48.9	59.7	46.3
6.	16.00-17.00	51.4	62.5	49.4	47.6	62.7	44.2	48.2	55.3	46.7
7.	17.00-18.00	50.7	63.7	48.4	52.2	79.9	48.5	52.5	75.3	45.1
8.	18.00-19.00	50.5	60.3	48.0	50.2	55.5	48.8	48.4	60.3	44.9
9.	19.00-20.00	48.4	57.5	46.1	50.9	60.9	49.5	48.1	59.1	44.9
10.	20.00-21.00	47.4	55.3	45.4	51.5	64.1	49.0	54.3	76.1	45.1
11.	21.00-22.00	48.6	60.3	46.5	51.5	63.6	49.1	51.3	72.3	46.0
12.	22.00-23.00	48.2	53.9	46.4	51.0	61.5	49.1	53.0	75.7	49.0
13.	23.00-00.00	47.0	62.6	44.6	51.7	63.0	48.9	54.1	77.9	49.2
14.	00.00-01.00	46.4	60.7	44.0	52.3	65.3	49.1	51.6	70.7	49.3
15.	01.00-02.00	49.6	64.2	43.1	51.3	73.3	48.5	51.7	59.9	49.5
16.	02.00-03.00	53.1	76.3	46.2	49.9	71.1	45.7	53.5	66.9	49.4
17.	03.00-04.00	47.9	56.6	45.1	48.3	57.4	45.7	51.0	61.0	49.3
18.	04.00-05.00	49.5	71.5	46.7	48.8	52.6	46.5	51.9	61.3	47.5
19.	05.00-06.00	48.1	69.3	43.9	56.5	75.3	48.3	50.8	61.0	48.8
20.	06.00-07.00	46.5	55.6	43.9	49.6	58.0	48.3	55.0	72.5	44.7
21.	07.00-08.00	47.0	50.8	44.7	52.5	66.2	48.2	55.2	72.1	45.5
22.	08.00-09.00	54.7	73.5	46.5	49.5	56.0	48.2	51.6	69.1	44.8
23.	09.00-10.00	47.8	56.2	46.5	47.2	59.9	45.3	49.6	65.9	44.6
24.	10.00-11.00	50.7	64.4	46.4	47.3	60.5	45.6	59.0	75.0	44.4
Leq 24 hr		50.9	-	-	50.5	-	-	52.4	-	-
Lmax		-	76.3	-	-	79.9	-	-	77.9	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-
Ldn		55.9	-	-	57.9	-	-	59.1	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน) REPORT NO. : 2219/2024/2-5
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์ REPORT DATE : July 1, 2024
คำขอประทานบัตรที่ 20/2551 SAMPLING DATE : June 21-24, 2024
เลขประทานบัตร 33323/15953 TYPE OF SAMPLE : Sound Level
Address : จังหวัดสระบุรี
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Job No. : S670606/June

Item	Time	Result (dB (A))								
		โรงเรียนบ้านสันประดู่								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	09.00-10.00	52.3	69.0	49.4	52.3	84.2	45.4	45.0	56.4	41.3
2.	10.00-11.00	51.7	71.5	48.9	48.2	70.1	45.3	45.3	57.9	41.4
3.	11.00-12.00	52.9	69.1	50.7	50.3	66.6	47.1	45.6	57.7	41.1
4.	12.00-13.00	51.8	70.8	48.7	50.8	76.7	46.9	47.6	62.6	42.5
5.	13.00-14.00	51.3	63.7	46.6	48.8	60.1	45.0	65.3	83.6	42.4
6.	14.00-15.00	51.1	61.8	46.8	47.8	58.0	44.7	61.0	85.9	41.5
7.	15.00-16.00	53.4	62.1	52.0	49.9	60.8	48.3	44.0	54.8	41.3
8.	16.00-17.00	49.7	56.0	47.4	46.4	60.6	42.5	69.6	87.6	42.4
9.	17.00-18.00	48.8	60.0	47.0	44.0	56.2	41.4	60.0	87.1	44.1
10.	18.00-19.00	48.2	59.5	47.2	43.4	65.5	40.1	47.7	63.5	43.8
11.	19.00-20.00	48.5	64.5	46.5	44.9	54.1	41.4	55.1	71.1	43.2
12.	20.00-21.00	48.3	57.7	45.2	42.9	60.4	39.8	51.2	65.8	43.4
13.	21.00-22.00	49.5	55.6	47.9	41.8	57.7	39.1	55.4	89.2	43.2
14.	22.00-23.00	48.1	57.2	44.9	42.8	56.7	40.0	61.2	81.6	44.3
15.	23.00-00.00	45.9	60.9	44.0	46.3	63.2	43.4	50.8	61.6	44.2
16.	00.00-01.00	50.8	69.0	44.4	50.2	64.4	44.2	56.8	84.5	43.5
17.	01.00-02.00	52.4	71.7	48.8	51.0	72.3	46.9	56.6	84.6	43.5
18.	02.00-03.00	51.8	67.6	47.0	51.0	65.4	46.9	48.0	63.3	44.1
19.	03.00-04.00	51.0	74.4	47.3	51.7	80.6	45.9	48.9	61.7	44.0
20.	04.00-05.00	50.9	64.8	46.3	52.1	76.0	47.6	59.0	81.1	43.6
21.	05.00-06.00	52.4	81.9	44.9	45.9	60.1	40.7	55.0	74.3	44.1
22.	06.00-07.00	51.4	75.8	44.6	42.3	50.3	40.8	57.1	77.5	43.6
23.	07.00-08.00	49.1	63.7	45.6	43.2	52.6	41.0	52.8	64.8	44.5
24.	08.00-09.00	49.3	70.7	45.0	46.4	62.0	40.7	55.4	74.2	45.1
Leq 24 hr		50.8	-	-	48.5	-	-	59.3	-	-
Lmax		-	81.9	-	-	84.2	-	-	89.2	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-
Ldn		57.3	-	-	55.6	-	-	68.9	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn

Wannasiri Suriyawong

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TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน) REPORT NO. : 2219/2024/3-5
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์ REPORT DATE : July 1, 2024
คำขอประทานบัตรที่ 20/2551 SAMPLING DATE : June 21-24, 2024
เลขประทานบัตร 33323/15953 TYPE OF SAMPLE : Sound Level
Address : จังหวัดสระบุรี
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Job No. : S670606/June

Item	Time	Result (dB (A))								
		บ้านสันประดู่								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	10.00-11.00	53.8	66.6	45.0	56.6	68.0	45.1	56.7	68.0	43.3
2.	11.00-12.00	57.0	77.5	44.1	43.2	50.4	40.0	58.8	87.5	43.5
3.	12.00-13.00	55.4	74.6	45.3	44.9	63.1	39.8	54.4	70.2	43.5
4.	13.00-14.00	57.8	81.9	43.0	51.6	63.1	41.3	57.6	85.7	43.7
5.	14.00-15.00	50.2	67.0	43.6	50.3	66.6	42.5	67.2	98.7	43.5
6.	15.00-16.00	49.6	61.2	44.3	44.4	51.8	41.5	57.9	69.1	43.6
7.	16.00-17.00	50.4	64.1	43.6	48.5	62.6	41.6	58.5	69.3	44.2
8.	17.00-18.00	50.5	66.2	40.8	48.4	62.6	41.4	58.6	69.5	43.9
9.	18.00-19.00	49.1	63.8	41.5	44.7	55.7	41.2	55.3	70.0	44.2
10.	19.00-20.00	56.9	72.2	41.6	47.2	59.3	40.7	47.6	60.9	43.9
11.	20.00-21.00	51.4	62.7	41.8	45.5	55.6	40.0	47.4	60.2	43.8
12.	21.00-22.00	51.2	66.2	42.4	44.9	64.4	40.1	45.8	50.6	43.9
13.	22.00-23.00	48.3	64.8	44.6	55.5	67.5	47.2	46.8	53.7	44.4
14.	23.00-00.00	47.3	57.2	44.5	58.1	76.9	47.8	45.4	54.8	43.6
15.	00.00-01.00	46.7	52.0	44.5	54.4	67.9	46.2	47.3	59.6	43.9
16.	01.00-02.00	54.9	67.9	44.4	56.0	64.9	46.8	46.0	54.9	43.6
17.	02.00-03.00	57.0	72.6	43.9	58.1	81.6	46.0	45.5	50.6	43.9
18.	03.00-04.00	57.4	68.8	45.9	56.5	69.3	47.7	46.5	52.4	44.4
19.	04.00-05.00	50.2	73.8	42.0	59.7	80.2	46.8	46.6	53.6	44.5
20.	05.00-06.00	47.9	61.4	41.2	44.5	53.7	43.2	47.1	55.5	44.9
21.	06.00-07.00	59.1	75.0	44.8	45.6	49.3	43.5	47.2	61.0	44.8
22.	07.00-08.00	51.0	63.9	42.1	45.3	51.6	43.3	46.9	57.7	44.3
23.	08.00-09.00	54.1	67.1	43.6	45.3	53.0	43.1	47.1	57.9	44.5
24.	09.00-10.00	56.2	71.8	43.1	51.2	67.0	43.1	46.4	53.5	44.9
Leq 24 hr		54.2	-	-	53.2	-	-	56.4	-	-
Lmax		-	81.9	-	-	81.6	-	-	98.7	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-
Ldn		60.8	-	-	62.1	-	-	57.7	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

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TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551
เลขประทานบัตร 33323/15953
Address : จังหวัดสระบุรี
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Job No. : S670606/June

REPORT NO. : 2219/2024/4-5
REPORT DATE : July 1, 2024
SAMPLING DATE : June 21-24, 2024
TYPE OF SAMPLE : Sound Level

Item	Time	Result (dB (A))								
		บ้านหนองโพธิ์								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	12.00-13.00	52.0	64.6	44.9	53.8	72.4	44.0	55.3	75.4	41.6
2.	13.00-14.00	51.1	64.1	45.3	54.1	74.4	44.3	51.1	76.3	43.0
3.	14.00-15.00	51.9	63.2	45.8	48.6	60.5	44.4	47.6	61.3	42.8
4.	15.00-16.00	52.0	64.1	46.1	48.7	62.8	44.5	55.1	71.4	41.7
5.	16.00-17.00	47.4	56.5	44.5	49.4	61.2	44.5	47.0	60.7	42.3
6.	17.00-18.00	51.9	66.5	44.5	47.4	58.4	44.4	49.4	74.0	42.1
7.	18.00-19.00	48.3	61.3	44.0	49.6	65.1	44.2	51.1	70.7	43.4
8.	19.00-20.00	51.1	62.6	43.9	50.4	62.9	44.0	60.0	79.4	44.9
9.	20.00-21.00	54.9	70.3	44.9	51.1	64.5	44.3	59.4	74.5	43.8
10.	21.00-22.00	49.8	62.3	44.8	50.1	64.1	45.7	54.6	74.2	43.0
11.	22.00-23.00	50.4	62.2	45.0	47.8	59.9	45.3	52.3	68.6	42.9
12.	23.00-00.00	53.5	71.1	45.4	50.5	64.4	45.6	45.8	65.9	41.7
13.	00.00-01.00	53.7	72.1	45.2	50.1	62.0	46.1	46.4	62.5	39.1
14.	01.00-02.00	49.7	63.7	44.7	55.0	71.8	43.7	41.3	50.2	38.5
15.	02.00-03.00	49.4	66.9	44.2	50.5	68.7	43.4	50.5	67.2	40.5
16.	03.00-04.00	49.4	68.3	44.2	45.9	59.3	43.4	48.5	61.0	40.2
17.	04.00-05.00	49.6	61.4	44.6	50.4	65.9	43.2	46.4	56.6	40.5
18.	05.00-06.00	50.6	63.6	45.2	51.5	79.3	43.3	43.4	53.6	39.1
19.	06.00-07.00	51.4	63.6	45.1	48.9	63.8	43.1	59.0	83.6	38.8
20.	07.00-08.00	55.4	80.7	44.5	47.2	59.1	43.2	53.7	70.8	40.1
21.	08.00-09.00	54.2	74.5	45.2	47.3	59.9	42.7	47.1	60.8	39.7
22.	09.00-10.00	53.7	68.2	44.9	51.2	63.1	44.2	51.4	70.1	40.3
23.	10.00-11.00	49.4	63.9	44.5	61.0	86.0	45.1	52.7	69.0	39.3
24.	11.00-12.00	50.0	64.4	44.2	61.9	82.0	41.5	44.6	58.3	39.9
Leq 24 hr		51.8	-	-	53.5	-	-	53.4	-	-
Lmax		-	80.7	-	-	86.0	-	-	83.6	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-
Ldn		57.7	-	-	58.0	-	-	58.5	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn

Wannasiri Suriyawong

- REPORTED RESULTS REFER TO SUBMITTED SAMPLES ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน) REPORT NO. : 2219/2024/5-5
Project : โครงการเหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์ REPORT DATE : July 1, 2024
คำขอประทานบัตรที่ 20/2551 SAMPLING DATE : June 21-24, 2024
เลขประทานบัตร 33323/15953 TYPE OF SAMPLE : Sound Level
Address : จังหวัดสระบุรี
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Job No. : S670606/June

Item	Time	Result (dB (A))								
		โรงเรียนวัดหนองถ่านเหนือ								
		21-22/06/24			22-23/06/24			23-24/06/24		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	13.00-14.00	57.5	81.7	50.2	53.5	79.2	48.0	55.2	70.7	41.7
2.	14.00-15.00	56.2	78.9	50.1	52.0	69.8	47.8	46.1	58.7	41.8
3.	15.00-16.00	56.8	82.0	49.3	52.9	79.4	46.1	51.2	67.3	41.8
4.	16.00-17.00	51.1	65.2	48.2	52.8	72.2	48.0	47.4	60.0	42.4
5.	17.00-18.00	51.3	66.0	47.2	60.7	83.0	48.5	51.6	72.4	42.5
6.	18.00-19.00	61.6	82.4	48.8	52.6	71.2	49.3	48.0	62.2	41.9
7.	19.00-20.00	51.6	58.7	50.8	51.5	62.0	50.4	45.5	57.6	42.4
8.	20.00-21.00	54.7	71.2	49.9	50.4	55.6	49.7	48.3	60.6	42.2
9.	21.00-22.00	54.8	76.6	49.4	51.0	67.3	49.0	48.6	62.5	41.4
10.	22.00-23.00	50.0	61.7	49.0	49.6	52.2	48.8	45.7	60.5	41.3
11.	23.00-00.00	50.7	69.5	49.1	49.2	54.9	48.3	49.1	64.5	41.1
12.	00.00-01.00	52.0	53.8	51.0	49.5	52.0	48.6	50.9	74.1	41.4
13.	01.00-02.00	51.2	55.9	48.9	50.0	60.0	48.1	46.0	61.2	43.6
14.	02.00-03.00	57.2	82.8	48.6	50.3	56.8	49.5	55.8	78.0	41.7
15.	03.00-04.00	49.6	62.4	48.2	50.2	61.7	49.4	53.4	74.1	41.7
16.	04.00-05.00	66.5	93.9	50.5	53.4	65.0	50.0	51.0	67.8	44.4
17.	05.00-06.00	56.5	82.2	50.1	52.4	70.8	45.3	50.4	62.0	45.1
18.	06.00-07.00	53.5	70.3	49.9	49.7	70.1	44.5	51.2	64.9	44.4
19.	07.00-08.00	53.8	72.8	49.8	47.7	64.6	40.9	51.3	67.0	41.6
20.	08.00-09.00	55.4	73.7	49.5	46.5	58.7	41.3	49.9	64.6	42.3
21.	09.00-10.00	53.6	66.5	50.4	44.5	59.4	41.0	57.7	73.0	42.4
22.	10.00-11.00	58.3	79.4	52.5	46.2	56.5	41.6	52.2	63.5	42.6
23.	11.00-12.00	55.4	72.9	50.0	49.1	62.7	42.5	47.7	61.2	43.9
24.	12.00-13.00	55.1	71.1	48.7	53.3	59.8	42.1	61.9	86.9	46.0
Leq 24 hr		57.1	-	-	52.3	-	-	53.0	-	-
Lmax		-	93.9	-	-	83.0	-	-	86.9	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-
Ldn		64.6	-	-	57.5	-	-	58.2	-	-

Standard : ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

⁽²⁾ Notification of the Ministry of Industry (2005) (B.E. 2548)

Pramual Moonsarn

Wannasiri Suriyawong

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- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Surface Water

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Sample Conditions : 2406-WF0607 = yellow turbid/slight black sediment

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2406-WF0607		
				คลองห้วยแร้ง (ต้นน้ำ)		
1	pH *	-	Electrometric Method (SM 4500B)	8.48	5.0-9.0	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	12.9	-	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	23.3	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	208	-	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	150.5	-	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	34.93	-	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	0.001	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	0.05 ⁽¹⁾	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0008	0.01	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.44	-	27/06/24

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: คลองห้วยแร้ง (ต้นน้ำ) = 47P 0697298 UTM 1615853
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3
(1) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04/07/24



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
04/07/24

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TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Surface Water

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Sample Conditions : 2406-WF0608 = yellow turbid/slight black sediment

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2406-WF0608		
				คลองห้วยแร้ง (ท้ายน้ำ)		
1	pH *	-	Electrometric Method (SM 4500B)	7.98	5.0-9.0	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	14.7	-	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	12.5	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	300	-	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	215.2	-	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	57.61	-	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	0.001	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	0.05 ⁽¹⁾	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0007	0.01	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.33	-	27/06/24

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: คลองห้วยแร้ง (ท้ายน้ำ) = 47P 0695576 UTM 1613917

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023

Standard : Notification of the National Environment Board No. 8 (1994) (B.E. 2537) ; Class 3

(1) Standard Cd = 0.05 mg/L ; When Total Hardness more than 100 mg/L as CaCO₃
Standard Cd = 0.005 mg/L ; When Total Hardness not more than 100 mg/L as CaCO₃

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04.07.24



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
04.07.24

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เข้มแข็งสิ่งแวดล้อมชุมชนดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Groundwater

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Sample Conditions : 2406-WG0602 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0602			
				น้ำใต้ดินบ้านแพะ	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	7.94	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 ⁰ C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 ⁰ C (SM 2540C)	646	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	419.2	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	67.40	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0012	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำใต้ดินบ้านแพะ = 47P 0697399 UTM 1615070
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
Standard : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)
(1) Suitable acceptable concentration
(2) Maximum allowable concentration

Reviewed by 
Ms. Wareerut Prachumdaeng
Chief of Laboratory
04.07.24



Approved by 
Mrs. Porntip Pethshee
Laboratory Manager
04.07.24

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Groundwater

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783

Sample Conditions : 2406-WG0603 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0603			
				น้ำใต้ดินบ้านสันประดู่ (ทิศตะวันออกเฉียงใต้)	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	8.41	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 °C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 °C (SM 2540C)	492	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	275.3	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	47.35	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0034	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำใต้ดินบ้านสันประดู่ (ทิศตะวันออกเฉียงใต้) = 47P 0695988 UTM 1613293

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023

Standard : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

(1) Suitable acceptable concentration

(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

24. 07. 24



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

24. 07. 24



TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Groundwater

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Sample Conditions : 2406-WG0604 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0604	(1)	(2)	
				น้ำใต้ดินบ้านสันประดู่ (ทศใต้)			
1	pH *	-	Electrometric Method (SM 4500B)	8.28	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 ⁰ C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 ⁰ C (SM 2540C)	422	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	269.7	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	48.88	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0013	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
: น้ำใต้ดินบ้านสันประดู่ (ทศใต้) = 47P 0697104 UTM 1613295
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
Standard : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)
(1) Suitable acceptable concentration
(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04.07.24



Approved by

Mrs. Pornpip Pethsuee
Laboratory Manager
04.07.24

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TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Groundwater

Address : -
Contact : Tel. (036) 240 700 Fax. (036) 240 783
Sample Conditions : 2406-WG0605 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0605			
				น้ำใต้ดินบ้านหนองโพธิ์	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	7.81	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 ⁰ C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 ⁰ C (SM 2540C)	468	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	342.9	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	23.71	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	0.014	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0028	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.19	0.5	1.0	27/06/24

Remarks : * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"
น้ำใต้ดินบ้านหนองโพธิ์ = 47P 0695562 UTM 1614003
Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023
Standard : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)
(1) Suitable acceptable concentration
(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
04.07.24



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
04.07.24

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R24-2219
Received Date : 24/06/24
Customer : Technical Division of Thai Environmental Technic Limited
For บริษัท ปูนซีเมนต์เอเชีย จำกัด (มหาชน)
โครงการ : เหมืองแร่ดินอุตสาหกรรมชนิดดินซีเมนต์
คำขอประทานบัตรที่ 20/2551 เลขประทานบัตร 33323/15953

Report Date : 04/07/24
Analysis Date : 23-27/06/24
Job No. : S670606/June
Sampling Date * : 23/06/24
Sampling By * : TET
Type of Sample : Groundwater

Address : -

Contact : Tel. (036) 240 700 Fax. (036) 240 783

Sample Conditions : 2406-WG0606 = clear

Item	Parameter	Unit	Method	Result	Standard		Analysis Date
				2406-WG0606			
				น้ำใต้ดิน บ้านหนองถ่านเหนือ	(1)	(2)	
1	pH *	-	Electrometric Method (SM 4500B)	8.37	7.0-8.5	6.5-9.2	23/06/24
2	Turbidity *	NTU	Nephelometric Method (SM 2130B)	< 0.5	5	20	26/06/24
3	Total Suspended Solids *	mg/L	Dried at 103-105 ⁰ C (SM 2540 D)	< 2.5	-	-	27/06/24
4	TDS *	mg/L	Dried at 180 ⁰ C (SM 2540C)	578	600	1,200	26/06/24
5	Total Hardness *	mg/L as CaCO ₃	EDTA Titrimetric (SM 2340C)	410.1	300	500	26/06/24
6	Sulfate *	mg/L	Turbidimetric (SM 4500-SO ₄ ²⁻ E)	20.54	200	250	26/06/24
7	Pb *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.05	26/06/24
8	Cd *	mg/L	Digestion, Electrothermal AAS Method (SM 3030E and 3113B)	< 0.001	none	0.01	24/06/24
9	As *	mg/L	Digestion, Continuous Hydride generation/AAS Method (SM 3114C)	0.0013	none	0.05	25/06/24
10	Total Iron	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	< 0.05	0.5	1.0	27/06/24

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: น้ำใต้ดินบ้านหนองถ่านเหนือ = 47P 0695359 UTM 1615727

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th Edition, 2023

Standard : Notification of Ministry of Natural Resources and Environment (2008) (B.E. 2551)

(1) Suitable acceptable concentration

(2) Maximum allowable concentration

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory



Approved by

Mrs. Porntip Pethshee
Laboratory Manager

END OF REPORT

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