

### ภาคผนวกที่ 3

ใบรายงานผลการวิเคราะห์จากห้องปฏิบัติการ

## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีดั่ง 1) ตำบลทับเที่ยง อำเภอเมืองดั่ง จังหวัดดั่ง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569128 E, 0835940 N  
**Sampling Date** : April 1-8, 2023  
**Sampling Time** : 10:40  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB301  
**Received Date** : April 11, 2023  
**Analytical Date** : April 11-19, 2023  
**Report No.** : 2023-RAAG587  
**Report Date** : April 20, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			Apr 1-2, 23	Apr 2-3, 23	Apr 3-4, 23	Apr 4-5, 23	Apr 5-6, 23	Apr 6-7, 23	Apr 7-8, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.187	0.147	0.087	0.096	0.089	0.099	0.108	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.101	0.075	0.041	0.053	0.048	0.053	0.056	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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(Ms.Natnicha Sermmatiwong)  
Laboratory Reviewer



(Ms.Ramita Taengthai)  
Laboratory Supervisor

## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลทับเที่ยง อำเภอเมืองดรง จังหวัดดรง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569131 E, 0835915 N  
**Sampling Date** : April 8-13, 2023  
**Sampling Time** : 10:00  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

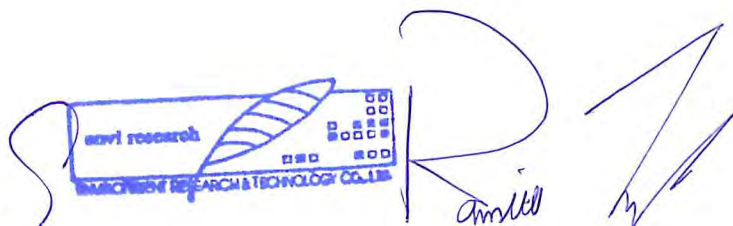
**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB338  
**Received Date** : April 18, 2023  
**Analytical Date** : April 18-21, 2023  
**Report No.** : 2023-RAAG829  
**Report Date** : April 21, 2023

Parameter	Unit	Method of Analysis	Result					Standard <sup>1'</sup>
			Apr 8-9, 23	Apr 9-10, 23	Apr 10-11, 23	Apr 11-12, 23	Apr 12-13, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.069	0.059	0.187	0.115	0.102	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.037	0.032	0.108	0.070	0.063	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).



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**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลห้วยเหียง อำเภอเมืองดง จังหวัดดง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569131 E, 0835915 N  
**Sampling Date** : April 17-22, 2023  
**Sampling Time** : 09:10  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB468  
**Received Date** : April 25, 2023  
**Analytical Date** : April 25-May 4, 2023  
**Report No.** : 2023-RAAH637  
**Report Date** : May 4, 2023

Parameter	Unit	Method of Analysis	Result					Standard <sup>1'</sup>
			Apr 17-18, 23	Apr 18-19, 23	Apr 19-20, 23	Apr 20-21, 23	Apr 21-22, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.164	0.201	0.177	0.203	0.103	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.106	0.115	0.105	0.112	0.063	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms. Natnicha Sermmatiwong)  
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**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569131 E, 0835915 N  
**Sampling Date** : April 22-29, 2023  
**Sampling Time** : 09:50  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB576  
**Received Date** : May 2, 2023  
**Analytical Date** : May 2-6, 2023  
**Report No.** : 2023-RAAH989  
**Report Date** : May 8, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			Apr 22-23, 23	Apr 23-24, 23	Apr 24-25, 23	Apr 25-26, 23	Apr 26-27, 23	Apr 27-28, 23	Apr 28-29, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.081	0.089	0.082	0.078	0.089	0.115	0.176	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.044	0.040	0.042	0.039	0.037	0.065	0.097	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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(Ms.Naticha Sermmatiwong)  
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**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุ้ง 1) ตำบลห้วยเตี้ย อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : April 29-May 6, 2023  
**Sampling Time** : 09:25  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB710  
**Received Date** : May 8, 2023  
**Analytical Date** : May 8-17, 2023  
**Report No.** : 2023-RAAI951  
**Report Date** : May 17, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			Apr 29-30, 23	Apr 30-May 1, 23	May 1-2, 23	May 2-3, 23	May 3-4, 23	May 4-5, 23	May 5-6, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.127	0.083	0.070	0.054	0.045	0.102	0.108	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.077	0.045	0.038	0.033	0.026	0.055	0.062	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

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**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลทับเที่ยง อำเภอเมืองดรง จังหวัดดรง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : May 6-13, 2023  
**Sampling Time** : 09:00  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB848  
**Received Date** : May 15, 2023  
**Analytical Date** : May 15-23, 2023  
**Report No.** : 2023-RAAJ313  
**Report Date** : May 23, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			May 6-7, 23	May 7-8, 23	May 8-9, 23	May 9-10, 23	May 10-11, 23	May 11-12, 23	May 12-13, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.057	0.053	0.053	0.078	0.052	0.063	0.089	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.034	0.029	0.032	0.042	0.031	0.035	0.053	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Natnicha Sermmatiwong)  
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## ANALYSIS REPORT

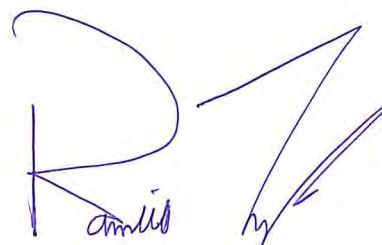
**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : May 13-20, 2023  
**Sampling Time** : 08:45  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB967  
**Received Date** : May 23, 2023  
**Analytical Date** : May 23-29, 2023  
**Report No.** : 2023-RAAJ834  
**Report Date** : May 29, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			May 13-14, 23	May 14-15, 23	May 15-16, 23	May 16-17, 23	May 17-18, 23	May 18-19, 23	May 19-20, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.110	0.091	0.119	0.079	0.108	0.089	0.080	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.062	0.054	0.065	0.041	0.059	0.049	0.047	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).



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**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลห้วยเหียง อำเภอดมัยดรง จังหวัดดรง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : May 20-27, 2023  
**Sampling Time** : 09:10  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC047  
**Received Date** : May 29, 2023  
**Analytical Date** : May 29-June 6, 2023  
**Report No.** : 2023-RAAK276  
**Report Date** : June 6, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			May 20-21, 23	May 21-22, 23	May 22-23, 23	May 23-24, 23	May 24-25, 23	May 25-26, 23	May 26-27, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.083	0.060	0.076	0.089	0.111	0.093	0.088	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.049	0.034	0.044	0.047	0.059	0.051	0.046	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
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**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : May 27-June 3, 2023  
**Sampling Time** : 08:55  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.


**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC203  
**Received Date** : June 6, 2023  
**Analytical Date** : June 6-12, 2023  
**Report No.** : 2023-RAAK871  
**Report Date** : June 12, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			May 27-28, 23	May 28-29, 23	May 29-30, 23	May 30-31, 23	May 31-Jun 1, 23	Jun 1-2, 23	Jun 2-3, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.062	0.048	0.086	0.092	0.052	0.058	0.062	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.036	0.027	0.051	0.057	0.028	0.031	0.034	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
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**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : June 3-10, 2023  
**Sampling Time** : 09:05  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC314  
**Received Date** : June 12, 2023  
**Analytical Date** : June 12-19, 2023  
**Report No.** : 2023-RAAL577  
**Report Date** : June 19, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			Jun 3-4, 23	Jun 4-5, 23	Jun 5-6, 23	Jun 6-7, 23	Jun 7-8, 23	Jun 8-9, 23	Jun 9-10, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.059	0.062	0.056	0.055	0.055	0.057	0.068	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.034	0.037	0.032	0.030	0.033	0.035	0.042	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
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**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีตรัง 1) ตำบลห้วยเตี๋ย อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : June 10-17, 2023  
**Sampling Time** : 08:55  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC458  
**Received Date** : June 19, 2023  
**Analytical Date** : June 19-27, 2023  
**Report No.** : 2023-RAAM159  
**Report Date** : June 28, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			Jun 10-11, 23	Jun 11-12, 23	Jun 12-13, 23	Jun 13-14, 23	Jun 14-15, 23	Jun 15-16, 23	Jun 16-17, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.049	0.079	0.074	0.061	0.076	0.074	0.077	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.027	0.043	0.042	0.036	0.046	0.044	0.042	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Natnicha Sermmatiwong)  
 Laboratory Reviewer



  
 (Ms.Ramita Taengthai)  
 Laboratory Supervisor



## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดรง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลห้วยเตียง อำเภอเมืองดรง จังหวัดดรง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : June 17-24, 2023  
**Sampling Time** : 09:10  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

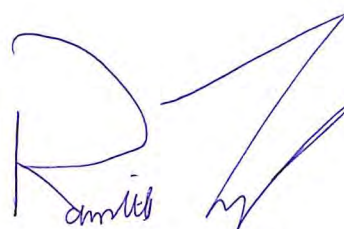
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC589  
**Received Date** : June 26, 2023  
**Analytical Date** : June 26-30, 2023  
**Report No.** : 2023-RAAM383  
**Report Date** : June 30, 2023

Parameter	Unit	Method of Analysis	Result							Standard <sup>1'</sup>
			Jun 17-18, 23	Jun 18-19, 23	Jun 19-20, 23	Jun 20-21, 23	Jun 21-22, 23	Jun 22-23, 23	Jun 23-24, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.053	0.053	0.098	0.086	0.084	0.080	0.101	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.032	0.033	0.061	0.054	0.054	0.052	0.061	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).



(Ms. Natnicha Sermmatiwong)  
Laboratory Reviewer

(Ms. Ramita Taengthai)  
Laboratory Supervisor





## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569130 E, 0835903 N  
**Sampling Date** : June 24-July 1, 2023  
**Sampling Time** : 08:55  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.


**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC733  
**Received Date** : July 4, 2023  
**Analytical Date** : July 4-10, 2023  
**Report No.** : 2023-RAAN075  
**Report Date** : July 10, 2023

Parameter	Unit	Method of Analysis	Result							Standard 1
			Jun 24-25, 23	Jun 25-26, 23	Jun 26-27, 23	Jun 27-28, 23	Jun 28-29, 23	Jun 29-30, 23	Jun 30-Jul 1, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m³	High-Volume, Gravimetric	0.084	0.054	0.052	0.047	0.044	0.049	0.036	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m³	PM10 Size Selective, High-Volume, Gravimetric	0.050	0.029	0.031	0.027	0.026	0.028	0.021	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Natnicha Sermmatiwong)  
Laboratory Reviewer



(Ms.Ramita Taengthai)  
Laboratory Supervisor

## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซนต์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลห้วยเหียง อำเภอเมืองดรง จังหวัดดรง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : ชุมชนควนขนุน ตำบลห้วยเหียง อำเภอเมืองดรง จังหวัดดรง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568776 E, 0835514 N  
**Sampling Date** : April 6-9, 2023  
**Sampling Time** : 11:52  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB295  
**Received Date** : April 11, 2023  
**Analytical Date** : April 11-19, 2023  
**Report No.** : 2023-RAAG584  
**Report Date** : April 20, 2023

Parameter	Unit	Method of Analysis	Result			Standard <sup>1'</sup>
			Apr 6-7, 23	Apr 7-8, 23	Apr 8-9, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.071	0.060	0.062	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.039	0.032	0.035	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Natnicha Sermmatiwong)  
Laboratory Reviewer

(Ms.Ramita Taengthai)  
Laboratory Supervisor

## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568773 E, 0835513 N  
**Sampling Date** : May 4-7, 2023  
**Sampling Time** : 16:15  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

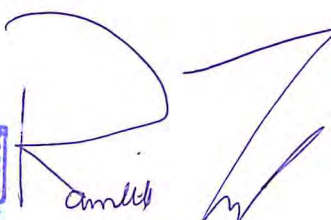
**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB711  
**Received Date** : May 8, 2023  
**Analytical Date** : May 8-17, 2023  
**Report No.** : 2023-RAAI954  
**Report Date** : May 18, 2023

Parameter	Unit	Method of Analysis	Result			Standard <sup>1'</sup>
			May 4-5, 23	May 5-6, 23	May 6-7, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.044	0.034	0.027	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.027	0.020	0.015	0.120

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).



(Ms.Natnicha Sermmatiwong)  
Laboratory Reviewer

(Ms.Ramita Taengthai)  
Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุ้ง 1) ตำบลห้วยเหียง อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : หมู่ชนควนชนุน ตำบลห้วยเหียง อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568779 E, 0835512 N  
**Sampling Date** : June 2-5, 2023  
**Sampling Time** : 14:55  
**Sampling Method** : U.S. EPA 40 CFR Part 50  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.


**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AC224  
**Received Date** : June 7, 2023  
**Analytical Date** : June 7-14, 2023  
**Report No.** : 2023-RAAL223  
**Report Date** : June 14, 2023

Parameter	Unit	Method of Analysis	Result			Standard <sup>1</sup>
			Jun 2-3, 23	Jun 3-4, 23	Jun 4-5, 23	
Total Suspended Particulate (TSP) 24 Hours Average	mg/m <sup>3</sup>	High-Volume, Gravimetric	0.049	0.042	0.047	0.330
Particulate Size Less Than 10 Micron (PM10) 24 Hours Average	mg/m <sup>3</sup>	PM10 Size Selective, High-Volume, Gravimetric	0.028	0.023	0.027	0.120

**Remark :** <sup>1</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
(Ms.Natnicha Sermmatiwong)  
Laboratory Reviewer



  
(Ms.Ramita Taengthai)  
Laboratory Supervisor

## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุ้ง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569056 E, 0835834 N  
**Sampling Date** : April 7-9, 2023  
**Sampling Time** : 09:05  
**Sampling Method** : APHA 108  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB295  
**Received Date** : April 11, 2023  
**Analytical Date** : April 11, 2023  
**Report No.** : 2023-RAAG878  
**Report Date** : April 25, 2023

Parameter	Unit	Method of Analysis	Result		
			Apr 7, 23	Apr 8, 23	Apr 9, 23
Total Hydrocarbon	ppm	Flame Ionization Detection Method	2.81	2.64	2.55
Methane Hydrocarbon	ppm	Flame Ionization Detection Method	2.10	2.02	1.97
Non-Methane Hydrocarbon	ppm	Flame Ionization Detection Method	0.71	0.62	0.58

(Ms.Piyatida Pradangkho)  
Laboratory Reviewer


(Ms.Panicha Promchai)  
Laboratory Supervisor

## ANALYSIS REPORT

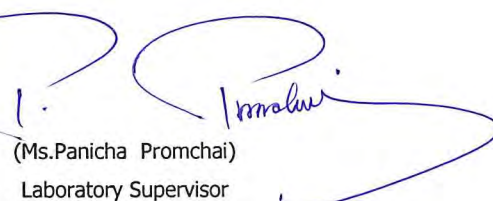
**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดั่ง 1) ตำบลทับเที่ยง อำเภอเมืองดั่ง จังหวัดดั่ง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569059 E, 0835834 N  
**Sampling Date** : May 5-7, 2023  
**Sampling Time** : 08:25  
**Sampling Method** : APHA 108  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB711  
**Received Date** : May 8, 2023  
**Analytical Date** : May 8-11, 2023  
**Report No.** : 2023-RAAI446  
**Report Date** : May 16, 2023

Parameter	Unit	Method of Analysis	Result		
			May 5, 23	May 6, 23	May 7, 23
Total Hydrocarbon	ppm	Flame Ionization Detection Method	3.26	3.26	3.13
Methane Hydrocarbon	ppm	Flame Ionization Detection Method	2.27	2.26	2.18
Non-Methane Hydrocarbon	ppm	Flame Ionization Detection Method	0.99	1.00	0.95



(Ms.Piyatida Pradangkho)  
Laboratory Reviewer

(Ms.Panicha Promchai)  
Laboratory Supervisor



## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลทับเที่ยง อำเภอเมืองดรง จังหวัดดรง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569060 E, 0835830 N  
**Sampling Date** : June 3-5, 2023  
**Sampling Time** : 08:26  
**Sampling Method** : APHA 108  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AC224  
**Received Date** : June 7, 2023  
**Analytical Date** : June 7-8, 2023  
**Report No.** : 2023-RAAK896  
**Report Date** : June 14, 2023

Parameter	Unit	Method of Analysis	Result		
			Jun 3, 23	Jun 4, 23	Jun 5, 23
Total Hydrocarbon	ppm	Flame Ionization Detection Method	3.18	2.98	3.27
Methane Hydrocarbon	ppm	Flame Ionization Detection Method	2.18	2.09	2.23
Non-Methane Hydrocarbon	ppm	Flame Ionization Detection Method	1.00	0.89	1.04

(Ms.Piyatida Pradangkho)  
Laboratory Reviewer



(Ms.Panicha Promchai)  
Laboratory Supervisor

## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุ้ง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568776 E, 0835514 N  
**Sampling Date** : April 7-9, 2023  
**Sampling Time** : 08:37  
**Sampling Method** : APHA 108  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB295  
**Received Date** : April 11, 2023  
**Analytical Date** : April 11, 2023  
**Report No.** : 2023-RAAG879  
**Report Date** : April 25, 2023

Parameter	Unit	Method of Analysis	Result		
			Apr 7, 23	Apr 8, 23	Apr 9, 23
Total Hydrocarbon	ppm	Flame Ionization Detection Method	2.46	2.39	2.53
Methane Hydrocarbon	ppm	Flame Ionization Detection Method	1.92	1.89	1.94
Non-Methane Hydrocarbon	ppm	Flame Ionization Detection Method	0.54	0.50	0.59

(Ms.Piyatida Pradangkho)  
Laboratory Reviewer




(Ms.Panicha Promchai)  
Laboratory Supervisor

## ANALYSIS REPORT


**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุ้ง 1) ตำบลทับเที่ยง อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : ขุมขนควนขนุน ตำบลทับเที่ยง อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568773 E, 0835513 N  
**Sampling Date** : May 5-7, 2023  
**Sampling Time** : 08:00  
**Sampling Method** : APHA 108  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.

**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AB711  
**Received Date** : May 8, 2023  
**Analytical Date** : May 8-11, 2023  
**Report No.** : 2023-RAAI447  
**Report Date** : May 16, 2023

Parameter	Unit	Method of Analysis	Result		
			May 5, 23	May 6, 23	May 7, 23
Total Hydrocarbon	ppm	Flame Ionization Detection Method	3.32	3.11	3.10
Methane Hydrocarbon	ppm	Flame Ionization Detection Method	2.27	2.07	2.17
Non-Methane Hydrocarbon	ppm	Flame Ionization Detection Method	1.05	1.04	0.93



(Ms.Piyatida Pradangkho)  
Laboratory Reviewer

(Ms.Panicha Promchai)  
Laboratory Supervisor



## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุ้ง 1) ตำบลห้วยเหียง อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**Sampling Source** : Ambient Air Quality  
**Sampling Point** : ชุมชนควนขนุน ตำบลห้วยเหียง อำเภอเมืองดรุ้ง จังหวัดดรุ้ง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568779 E, 0835512 N  
**Sampling Date** : June 3-5, 2023  
**Sampling Time** : 08:00  
**Sampling Method** : APHA 108  
**Sampling By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Quotation No.** : 2023-00283  
**Folder No.** : 2023-AC224  
**Received Date** : June 7, 2023  
**Analytical Date** : June 7-8, 2023  
**Report No.** : 2023-RAAK899  
**Report Date** : June 14, 2023

Parameter	Unit	Method of Analysis	Result		
			Jun 3, 23	Jun 4, 23	Jun 5, 23
Total Hydrocarbon	ppm	Flame Ionization Detection Method	3.06	3.16	2.83
Methane Hydrocarbon	ppm	Flame Ionization Detection Method	2.14	2.16	2.01
Non-Methane Hydrocarbon	ppm	Flame Ionization Detection Method	0.92	1.00	0.82

(Ms.Piyatida Pradangkho)  
Laboratory Reviewer



(Ms.Panicha Promchai)  
Laboratory Supervisor


## ANALYSIS REPORT

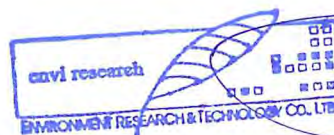
**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569056 E, 0835834 N  
**Measured Date** : April 6-9, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number R9CLG7J5

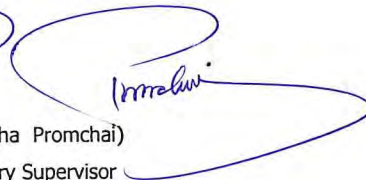
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB295-004  
**Report No.** : 2023-RAAG880  
**Report Date** : April 25, 2023

Interval Time	Result NO <sub>2</sub> (ppm)			Standard <sup>1'</sup>
	Apr 6-7, 23	Apr 7-8, 23	Apr 8-9, 23	
10:00-11:00	0.0134	0.0124	0.0253	
11:00-12:00	0.0203	0.0207	0.0363	
12:00-13:00	0.0181	0.0205	0.0206	
13:00-14:00	0.0117	0.0130	0.0133	
14:00-15:00	0.0166	0.0139	0.0176	
15:00-16:00	0.0178	0.0123	0.0230	
16:00-17:00	0.0160	0.0155	0.0285	
17:00-18:00	0.0194	0.0140	0.0308	
18:00-19:00	0.0168	0.0154	0.0204	
19:00-20:00	0.0152	0.0192	0.0083	
20:00-21:00	0.0108	0.0219	0.0080	
21:00-22:00	0.0094	0.0178	0.0070	
22:00-23:00	0.0105	0.0127	0.0081	
23:00-00:00	0.0107	0.0094	0.0075	
00:00-01:00	0.0092	0.0113	0.0064	
01:00-02:00	0.0082	0.0103	0.0063	
02:00-03:00	0.0077	0.0088	0.0059	
03:00-04:00	0.0069	0.0086	0.0058	
04:00-05:00	0.0070	0.0090	0.0065	
05:00-06:00	0.0071	0.0090	0.0066	
06:00-07:00	0.0071	0.0074	0.0072	
07:00-08:00	0.0068	0.0072	0.0067	
08:00-09:00	0.0065	0.0072	0.0075	
09:00-10:00	0.0099	0.0116	0.0120	
<b>24 Hours Average</b>	<b>0.0118</b>	<b>0.0129</b>	<b>0.0136</b>	-
<b>1 Hour Maximum</b>	<b>0.0203</b>	<b>0.0219</b>	<b>0.0363</b>	<b>0.17</b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), Notification No.28, B.E.2550 (2007), published in the Royal Government Gazette No.124 Special Part 58D dated May 14, B.E.2550 (2007) and Notification No.33, B.E.2552 (2009), published in the Royal Government Gazette No.126 Special Part 114D dated August 14, B.E.2552 (2009), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
(Ms.Piyatida Pradangkho)  
Laboratory Reviewer



  
(Ms.Panicha Promchai)  
Laboratory Supervisor



## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลทับเที่ยง อำเภอเมืองดรง จังหวัดดรง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569056 E, 0835834 N  
**Measured Date** : April 6-9, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : SO<sub>2</sub> UV-Fluorescence Analyzer Horiba Model APSA-370 Serial Number 4X01KWWU

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB295-004  
**Report No.** : 2023-RAAG881  
**Report Date** : April 25, 2023

Interval Time	Result SO <sub>2</sub> (ppm)			Standard
	Apr 6-7, 23	Apr 7-8, 23	Apr 8-9, 23	
10:00-11:00	0.0012	0.0018	0.0023	
11:00-12:00	0.0014	0.0020	0.0025	
12:00-13:00	0.0023	0.0019	0.0017	
13:00-14:00	0.0024	0.0019	0.0013	
14:00-15:00	0.0023	0.0020	0.0015	
15:00-16:00	0.0019	0.0022	0.0018	
16:00-17:00	0.0011	0.0022	0.0017	
17:00-18:00	0.0010	0.0018	0.0019	
18:00-19:00	0.0010	0.0014	0.0013	
19:00-20:00	0.0009	0.0011	0.0009	
20:00-21:00	0.0007	0.0010	0.0009	
21:00-22:00	0.0007	0.0009	0.0007	
22:00-23:00	0.0007	0.0008	0.0007	
23:00-00:00	0.0007	0.0008	0.0007	
00:00-01:00	0.0007	0.0008	0.0007	
01:00-02:00	0.0007	0.0009	0.0006	
02:00-03:00	0.0009	0.0009	0.0007	
03:00-04:00	0.0006	0.0008	0.0006	
04:00-05:00	0.0006	0.0006	0.0006	
05:00-06:00	0.0007	0.0007	0.0006	
06:00-07:00	0.0007	0.0007	0.0006	
07:00-08:00	0.0006	0.0006	0.0009	
08:00-09:00	0.0008	0.0007	0.0009	
09:00-10:00	0.0014	0.0013	0.0011	
<b>24 Hours Average</b>	<b>0.0011</b>	<b>0.0012</b>	<b>0.0011</b>	<b>0.12<sup>1</sup></b>
<b>1 Hour Maximum</b>	<b>0.0024</b>	<b>0.0022</b>	<b>0.0025</b>	<b>0.30<sup>2</sup></b>

**Remark :** <sup>1</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).  
<sup>2</sup> Notification of National Environmental Board, No.12, B.E.2538 (1995), published in the Royal Government Gazette No.112 Special Part 27D dated July 13, B.E.2538 (1995) and Notification No.21, B.E.2544 (2001), published in the Royal Government Gazette No.118 Special Part 39D dated April 30, B.E.2544 (2001), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)  
Laboratory Reviewer

envi research  
ENVIRONMENT RESEARCH & TECHNOLOGY CO., LTD.

(Ms.Panicha Promchai)  
Laboratory Supervisor




## ANALYSIS REPORT


**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569056 E, 0835834 N  
**Measured Date** : April 6-9, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : CO NDIR Analyzer Horiba Model APMA-370 Serial Number JHG8PWA8

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB295-004  
**Report No.** : 2023-RAAG882  
**Report Date** : April 25, 2023

Interval Time	Result CO (ppm)						Standard <sup>1'</sup>
	Apr 6-7, 23		Apr 7-8, 23		Apr 8-9, 23		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
10:00-11:00	0.3	-	0.4	0.5	0.5	0.4	
11:00-12:00	0.3	-	0.5	0.5	0.5	0.5	
12:00-13:00	0.4	-	0.5	0.5	0.3	0.4	
13:00-14:00	0.4	-	0.4	0.4	0.3	0.4	
14:00-15:00	0.4	-	0.4	0.4	0.3	0.4	
15:00-16:00	0.3	-	0.4	0.4	0.4	0.4	
16:00-17:00	0.3	-	0.4	0.4	0.4	0.4	
17:00-18:00	0.4	0.4	0.4	0.4	0.4	0.4	
18:00-19:00	0.4	0.4	0.5	0.4	0.3	0.4	
19:00-20:00	0.4	0.4	0.6	0.4	0.3	0.3	
20:00-21:00	0.4	0.4	0.7	0.5	0.3	0.3	
21:00-22:00	0.4	0.4	0.6	0.5	0.3	0.3	
22:00-23:00	0.5	0.4	0.5	0.5	0.3	0.3	
23:00-00:00	0.5	0.4	0.5	0.5	0.3	0.3	
00:00-01:00	0.5	0.4	0.5	0.5	0.3	0.3	
01:00-02:00	0.4	0.4	0.5	0.6	0.3	0.3	
02:00-03:00	0.5	0.4	0.4	0.5	0.2	0.3	
03:00-04:00	0.5	0.5	0.4	0.5	0.2	0.3	
04:00-05:00	0.5	0.5	0.4	0.5	0.3	0.3	
05:00-06:00	0.5	0.5	0.5	0.5	0.3	0.3	
06:00-07:00	0.4	0.5	0.4	0.4	0.3	0.3	
07:00-08:00	0.4	0.5	0.4	0.4	0.3	0.3	
08:00-09:00	0.5	0.5	0.5	0.4	0.3	0.3	
09:00-10:00	0.5	0.5	0.5	0.4	0.3	0.3	
24 Hours Average	0.4	-	0.5	-	0.3	-	-
1 Hour Maximum	0.5	-	0.7	-	0.5	-	30
8 Hours Maximum	-	0.5	-	0.6	-	0.5	9

Remark : <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer

  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor


## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569059 E, 0835834 N  
**Measured Date** : May 4-7, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number M4286P23

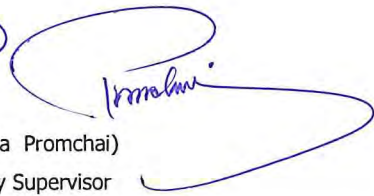
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB711-004  
**Report No.** : 2023-RAAI530  
**Report Date** : May 16, 2023

Interval Time	Result NO <sub>2</sub> (ppm)			Standard <sup>1*</sup>
	May 4-5, 23	May 5-6, 23	May 6-7, 23	
15:00-16:00	0.0052	0.0111	0.0151	
16:00-17:00	0.0122	0.0093	0.0193	
17:00-18:00	0.0131	0.0123	0.0157	
18:00-19:00	0.0149	0.0083	0.0157	
19:00-20:00	0.0169	0.0096	0.0080	
20:00-21:00	0.0144	0.0092	0.0051	
21:00-22:00	0.0177	0.0092	0.0043	
22:00-23:00	0.0104	0.0059	0.0052	
23:00-00:00	0.0081	0.0035	0.0041	
00:00-01:00	0.0089	0.0023	0.0027	
01:00-02:00	0.0090	0.0032	0.0024	
02:00-03:00	0.0100	0.0032	0.0020	
03:00-04:00	0.0058	0.0030	0.0024	
04:00-05:00	0.0049	0.0027	0.0020	
05:00-06:00	0.0044	0.0033	0.0021	
06:00-07:00	0.0041	0.0042	0.0023	
07:00-08:00	0.0042	0.0063	0.0031	
08:00-09:00	0.0130	0.0087	0.0069	
09:00-10:00	0.0149	0.0081	0.0064	
10:00-11:00	0.0147	0.0071	0.0121	
11:00-12:00	0.0147	0.0125	0.0163	
12:00-13:00	0.0089	0.0083	0.0055	
13:00-14:00	0.0098	0.0124	0.0097	
14:00-15:00	0.0109	0.0192	0.0140	
<b>24 Hours Average</b>	<b>0.0105</b>	<b>0.0076</b>	<b>0.0076</b>	-
<b>1 Hour Maximum</b>	<b>0.0177</b>	<b>0.0192</b>	<b>0.0193</b>	<b>0.17</b>

**Remark :** <sup>1\*</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), Notification No.28, B.E.2550 (2007), published in the Royal Government Gazette No.124 Special Part 58D dated May 14, B.E.2550 (2007) and Notification No.33, B.E.2552 (2009), published in the Royal Government Gazette No.126 Special Part 114D dated August 14, B.E.2552 (2009), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569059 E, 0835834 N  
**Measured Date** : May 4-7, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : SO<sub>2</sub> UV-Fluorescence Analyzer Thermo Model 43C Serial Number 64390-343/2


**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB711-004  
**Report No.** : 2023-RAAI531  
**Report Date** : May 16, 2023

Interval Time	Result SO <sub>2</sub> (ppm)			Standard
	May 4-5, 23	May 5-6, 23	May 6-7, 23	
15:00-16:00	0.0014	0.0014	0.0015	
16:00-17:00	0.0011	0.0013	0.0016	
17:00-18:00	0.0011	0.0013	0.0014	
18:00-19:00	0.0013	0.0013	0.0013	
19:00-20:00	0.0013	0.0013	0.0013	
20:00-21:00	0.0013	0.0013	0.0013	
21:00-22:00	0.0013	0.0013	0.0013	
22:00-23:00	0.0012	0.0012	0.0013	
23:00-00:00	0.0013	0.0013	0.0012	
00:00-01:00	0.0013	0.0012	0.0012	
01:00-02:00	0.0013	0.0013	0.0012	
02:00-03:00	0.0013	0.0012	0.0012	
03:00-04:00	0.0013	0.0013	0.0012	
04:00-05:00	0.0013	0.0013	0.0012	
05:00-06:00	0.0013	0.0013	0.0011	
06:00-07:00	0.0013	0.0013	0.0011	
07:00-08:00	0.0013	0.0012	0.0012	
08:00-09:00	0.0013	0.0012	0.0013	
09:00-10:00	0.0014	0.0012	0.0012	
10:00-11:00	0.0013	0.0014	0.0014	
11:00-12:00	0.0014	0.0015	0.0015	
12:00-13:00	0.0014	0.0013	0.0013	
13:00-14:00	0.0014	0.0014	0.0013	
14:00-15:00	0.0014	0.0014	0.0013	
<b>24 Hours Average</b>	<b>0.0013</b>	<b>0.0013</b>	<b>0.0013</b>	<b>0.12<sup>1'</sup></b>
<b>1 Hour Maximum</b>	<b>0.0014</b>	<b>0.0015</b>	<b>0.0016</b>	<b>0.30<sup>2'</sup></b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).  
<sup>2'</sup> Notification of National Environmental Board, No.12, B.E.2538 (1995), published in the Royal Government Gazette No.112 Special Part 27D dated July 13, B.E.2538 (1995) and Notification No.21, B.E.2544 (2001), published in the Royal Government Gazette No.118 Special Part 39D dated April 30, B.E.2544 (2001), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรุรง 1) ตำบลห้วยเหียง อำเภอเมืองดรุรง จังหวัดดรุรง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569059 E, 0835834 N  
**Measured Date** : May 4-7, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : CO NDIR Analyzer Horiba Model APMA-370 Serial Number YKAC090F

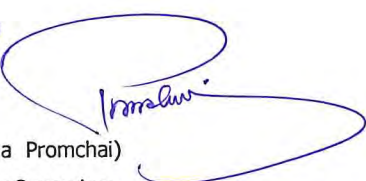
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB711-004  
**Report No.** : 2023-RAAI532  
**Report Date** : May 16, 2023

Interval Time	Result CO (ppm)						Standard <sup>1'</sup>
	May 4-5, 23		May 5-6, 23		May 6-7, 23		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
15:00-16:00	0.4	-	0.3	0.3	0.4	0.4	
16:00-17:00	0.3	-	0.3	0.3	0.4	0.4	
17:00-18:00	0.4	-	0.3	0.3	0.4	0.4	
18:00-19:00	0.5	-	0.3	0.3	0.4	0.4	
19:00-20:00	0.4	-	0.4	0.3	0.3	0.4	
20:00-21:00	0.4	-	0.4	0.3	0.3	0.4	
21:00-22:00	0.4	-	0.5	0.4	0.3	0.4	
22:00-23:00	0.4	0.4	0.4	0.4	0.4	0.4	
23:00-00:00	0.4	0.4	0.3	0.4	0.3	0.4	
00:00-01:00	0.5	0.4	0.3	0.4	0.3	0.3	
01:00-02:00	0.4	0.4	0.3	0.4	0.3	0.3	
02:00-03:00	0.4	0.4	0.3	0.4	0.2	0.3	
03:00-04:00	0.4	0.4	0.3	0.4	0.3	0.3	
04:00-05:00	0.4	0.4	0.3	0.3	0.3	0.3	
05:00-06:00	0.4	0.4	0.3	0.3	0.2	0.3	
06:00-07:00	0.4	0.4	0.3	0.3	0.3	0.3	
07:00-08:00	0.5	0.4	0.4	0.3	0.3	0.3	
08:00-09:00	0.4	0.4	0.4	0.3	0.3	0.3	
09:00-10:00	0.3	0.4	0.4	0.3	0.3	0.3	
10:00-11:00	0.3	0.4	0.4	0.4	0.4	0.3	
11:00-12:00	0.3	0.4	0.4	0.4	0.4	0.3	
12:00-13:00	0.3	0.4	0.3	0.4	0.3	0.3	
13:00-14:00	0.3	0.4	0.4	0.4	0.4	0.3	
14:00-15:00	0.3	0.3	0.4	0.4	0.4	0.4	
24 Hours Average	0.4	-	0.4	-	0.3	-	-
1 Hour Maximum	0.5	-	0.5	-	0.4	-	30
8 Hours Maximum	-	0.4	-	0.4	-	0.4	9

Remark : <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor


## ANALYSIS REPORT


**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569060 E, 0835830 N  
**Measured Date** : June 2-5, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number VLR55LT4

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC224-004  
**Report No.** : 2023-RAAL038  
**Report Date** : June 14, 2023

Interval Time	Result NO <sub>x</sub> (ppm)			Standard <sup>1'</sup>
	Jun 2-3, 23	Jun 3-4, 23	Jun 4-5, 23	
14:00-15:00	0.0164	0.0085	0.0091	
15:00-16:00	0.0188	0.0079	0.0088	
16:00-17:00	0.0177	0.0081	0.0154	
17:00-18:00	0.0127	0.0104	0.0116	
18:00-19:00	0.0124	0.0112	0.0149	
19:00-20:00	0.0124	0.0076	0.0140	
20:00-21:00	0.0096	0.0039	0.0132	
21:00-22:00	0.0080	0.0034	0.0078	
22:00-23:00	0.0068	0.0040	0.0058	
23:00-00:00	0.0062	0.0042	0.0063	
00:00-01:00	0.0052	0.0047	0.0065	
01:00-02:00	0.0053	0.0047	0.0055	
02:00-03:00	0.0038	0.0044	0.0049	
03:00-04:00	0.0042	0.0040	0.0044	
04:00-05:00	0.0042	0.0039	0.0040	
05:00-06:00	0.0042	0.0042	0.0044	
06:00-07:00	0.0046	0.0041	0.0041	
07:00-08:00	0.0071	0.0075	0.0054	
08:00-09:00	0.0094	0.0082	0.0078	
09:00-10:00	0.0097	0.0074	0.0090	
10:00-11:00	0.0173	0.0092	0.0062	
11:00-12:00	0.0161	0.0101	0.0069	
12:00-13:00	0.0117	0.0092	0.0066	
13:00-14:00	0.0107	0.0086	0.0079	
<b>24 Hours Average</b>	<b>0.0098</b>	<b>0.0066</b>	<b>0.0079</b>	-
<b>1 Hour Maximum</b>	<b>0.0188</b>	<b>0.0112</b>	<b>0.0154</b>	<b>0.17</b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), Notification No.28, B.E.2550 (2007), published in the Royal Government Gazette No.124 Special Part 58D dated May 14, B.E.2550 (2007) and Notification No.33, B.E.2552 (2009), published in the Royal Government Gazette No.126 Special Part 114D dated August 14, B.E.2552 (2009), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer

  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor



## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569060 E, 0835830 N  
**Measured Date** : June 2-5, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : SO<sub>2</sub> UV-Fluorescence Analyzer Horiba Model APSA-370 Serial Number E5KBWB08

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC224-004  
**Report No.** : 2023-RAAL039  
**Report Date** : June 14, 2023

Interval Time	Result SO <sub>2</sub> (ppm)			Standard
	Jun 2-3, 23	Jun 3-4, 23	Jun 4-5, 23	
14:00-15:00	0.0013	0.0012	0.0021	
15:00-16:00	0.0013	0.0011	0.0019	
16:00-17:00	0.0015	0.0009	0.0013	
17:00-18:00	0.0014	0.0008	0.0014	
18:00-19:00	0.0012	0.0007	0.0012	
19:00-20:00	0.0009	0.0007	0.0011	
20:00-21:00	0.0008	0.0005	0.0011	
21:00-22:00	0.0005	0.0005	0.0010	
22:00-23:00	0.0004	0.0005	0.0009	
23:00-00:00	0.0004	0.0005	0.0008	
00:00-01:00	0.0005	0.0004	0.0008	
01:00-02:00	0.0007	0.0004	0.0006	
02:00-03:00	0.0008	0.0004	0.0008	
03:00-04:00	0.0010	0.0005	0.0008	
04:00-05:00	0.0010	0.0005	0.0008	
05:00-06:00	0.0009	0.0004	0.0008	
06:00-07:00	0.0010	0.0005	0.0009	
07:00-08:00	0.0009	0.0005	0.0009	
08:00-09:00	0.0013	0.0007	0.0010	
09:00-10:00	0.0016	0.0009	0.0007	
10:00-11:00	0.0017	0.0010	0.0004	
11:00-12:00	0.0017	0.0013	0.0003	
12:00-13:00	0.0017	0.0013	0.0003	
13:00-14:00	0.0015	0.0016	0.0003	
<b>24 Hours Average</b>	<b>0.0011</b>	<b>0.0007</b>	<b>0.0009</b>	<b>0.12<sup>1'</sup></b>
<b>1 Hour Maximum</b>	<b>0.0017</b>	<b>0.0016</b>	<b>0.0021</b>	<b>0.30<sup>2'</sup></b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).  
<sup>2'</sup> Notification of National Environmental Board, No.12, B.E.2538 (1995), published in the Royal Government Gazette No.112 Special Part 27D dated July 13, B.E.2538 (1995) and Notification No.21, B.E.2544 (2001), published in the Royal Government Gazette No.118 Special Part 39D dated April 30, B.E.2544 (2001), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

(Ms.Piyatida Pradangkho)  
Laboratory Reviewer

(Ms.Panicha Promchai)  
Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ต.ง.5036 (ถนนศรีดรุ้ง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : พื้นที่ก่อสร้างโครงการ  
**GPS. Coordinate** : UTM (WGS84) 47N 0569060 E, 0835830 N  
**Measured Date** : June 2-5, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : CO NDIR Analyzer Horiba Model APMA-370 Serial Number SFB4TS99

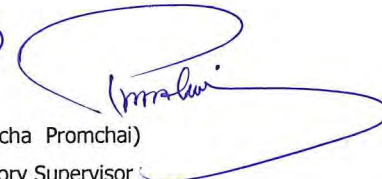
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC224-004  
**Report No.** : 2023-RAAL040  
**Report Date** : June 14, 2023

Interval Time	Result CO (ppm)						Standard <sup>1/</sup>
	Jun 2-3, 23		Jun 3-4, 23		Jun 4-5, 23		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
14:00-15:00	0.3	-	0.3	0.3	0.3	0.3	
15:00-16:00	0.3	-	0.3	0.3	0.3	0.3	
16:00-17:00	0.3	-	0.3	0.3	0.2	0.3	
17:00-18:00	0.4	-	0.3	0.3	0.3	0.2	
18:00-19:00	0.6	-	0.5	0.3	0.4	0.3	
19:00-20:00	0.6	-	0.5	0.4	0.5	0.3	
20:00-21:00	0.7	-	0.3	0.4	0.6	0.4	
21:00-22:00	0.6	0.5	0.2	0.3	0.5	0.4	
22:00-23:00	0.5	0.5	0.2	0.3	0.5	0.4	
23:00-00:00	0.4	0.5	0.3	0.3	0.4	0.4	
00:00-01:00	0.4	0.5	0.3	0.3	0.4	0.4	
01:00-02:00	0.4	0.5	0.3	0.3	0.4	0.5	
02:00-03:00	0.4	0.5	0.3	0.3	0.4	0.5	
03:00-04:00	0.3	0.5	0.3	0.3	0.4	0.4	
04:00-05:00	0.3	0.4	0.3	0.3	0.4	0.4	
05:00-06:00	0.3	0.4	0.3	0.3	0.3	0.4	
06:00-07:00	0.3	0.4	0.3	0.3	0.4	0.4	
07:00-08:00	0.4	0.4	0.4	0.3	0.4	0.4	
08:00-09:00	0.4	0.4	0.4	0.3	0.3	0.4	
09:00-10:00	0.3	0.3	0.4	0.3	0.3	0.4	
10:00-11:00	0.3	0.3	0.2	0.3	0.3	0.4	
11:00-12:00	0.3	0.3	0.3	0.3	0.3	0.3	
12:00-13:00	0.3	0.3	0.2	0.3	0.3	0.3	
13:00-14:00	0.3	0.3	0.2	0.3	0.3	0.3	
24 Hours Average	0.4	-	0.3	-	0.4	-	-
1 Hour Maximum	0.7	-	0.5	-	0.6	-	30
8 Hours Maximum	-	0.5	-	0.4	-	0.5	9

Remark : <sup>1/</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor


## ANALYSIS REPORT


**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลห้วยเหียง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลห้วยเหียง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568776 E, 0835514 N  
**Measured Date** : April 6-9, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number U9LS50WU

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB295-007  
**Report No.** : 2023-RAAG883  
**Report Date** : April 25, 2023

Interval Time	Result NO <sub>2</sub> (ppm)			Standard <sup>1/</sup>
	Apr 6-7, 23	Apr 7-8, 23	Apr 8-9, 23	
12:00-13:00	0.0081	0.0092	0.0099	
13:00-14:00	0.0087	0.0090	0.0091	
14:00-15:00	0.0091	0.0093	0.0095	
15:00-16:00	0.0095	0.0097	0.0099	
16:00-17:00	0.0095	0.0097	0.0101	
17:00-18:00	0.0100	0.0105	0.0096	
18:00-19:00	0.0099	0.0109	0.0098	
19:00-20:00	0.0091	0.0112	0.0110	
20:00-21:00	0.0103	0.0147	0.0100	
21:00-22:00	0.0107	0.0151	0.0103	
22:00-23:00	0.0103	0.0128	0.0100	
23:00-00:00	0.0097	0.0108	0.0092	
00:00-01:00	0.0087	0.0100	0.0089	
01:00-02:00	0.0084	0.0100	0.0085	
02:00-03:00	0.0085	0.0098	0.0083	
03:00-04:00	0.0083	0.0096	0.0082	
04:00-05:00	0.0085	0.0094	0.0088	
05:00-06:00	0.0082	0.0095	0.0091	
06:00-07:00	0.0084	0.0086	0.0090	
07:00-08:00	0.0087	0.0087	0.0089	
08:00-09:00	0.0091	0.0097	0.0090	
09:00-10:00	0.0101	0.0108	0.0087	
10:00-11:00	0.0090	0.0097	0.0095	
11:00-12:00	0.0088	0.0098	0.0096	
<b>24 Hours Average</b>	<b>0.0092</b>	<b>0.0104</b>	<b>0.0094</b>	-
<b>1 Hour Maximum</b>	<b>0.0107</b>	<b>0.0151</b>	<b>0.0110</b>	<b>0.17</b>

**Remark :** <sup>1/</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), Notification No.28, B.E.2550 (2007), published in the Royal Government Gazette No.124 Special Part 58D dated May 14, B.E.2550 (2007) and Notification No.33, B.E.2552 (2009), published in the Royal Government Gazette No.126 Special Part 114D dated August 14, B.E.2552 (2009), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer

  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT

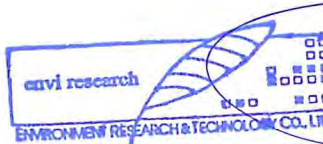
**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีดรง 1) ตำบลทับเที่ยง อำเภอเมืองดรง จังหวัดดรง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองดรง จังหวัดดรง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568776 E, 0835514 N  
**Measured Date** : April 6-9, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : SO<sub>2</sub> UV-Fluorescence Analyzer Thermo Model 43i Serial Number CM14430003

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB295-007  
**Report No.** : 2023-RAAG884  
**Report Date** : April 25, 2023

Interval Time	Result SO <sub>2</sub> (ppm)			Standard
	Apr 6-7, 23	Apr 7-8, 23	Apr 8-9, 23	
12:00-13:00	0.0009	0.0009	0.0013	
13:00-14:00	0.0009	0.0007	0.0012	
14:00-15:00	0.0012	0.0011	0.0014	
15:00-16:00	0.0010	0.0010	0.0014	
16:00-17:00	0.0012	0.0012	0.0017	
17:00-18:00	0.0012	0.0011	0.0013	
18:00-19:00	0.0016	0.0015	0.0016	
19:00-20:00	0.0018	0.0019	0.0018	
20:00-21:00	0.0019	0.0022	0.0018	
21:00-22:00	0.0016	0.0021	0.0017	
22:00-23:00	0.0015	0.0015	0.0017	
23:00-00:00	0.0012	0.0013	0.0012	
00:00-01:00	0.0012	0.0014	0.0015	
01:00-02:00	0.0012	0.0013	0.0012	
02:00-03:00	0.0010	0.0012	0.0010	
03:00-04:00	0.0009	0.0013	0.0011	
04:00-05:00	0.0008	0.0011	0.0012	
05:00-06:00	0.0006	0.0008	0.0011	
06:00-07:00	0.0008	0.0011	0.0016	
07:00-08:00	0.0006	0.0013	0.0017	
08:00-09:00	0.0007	0.0018	0.0018	
09:00-10:00	0.0009	0.0015	0.0015	
10:00-11:00	0.0010	0.0014	0.0013	
11:00-12:00	0.0013	0.0013	0.0012	
<b>24 Hours Average</b>	<b>0.0011</b>	<b>0.0013</b>	<b>0.0014</b>	<b>0.12<sup>1</sup></b>
<b>1 Hour Maximum</b>	<b>0.0019</b>	<b>0.0022</b>	<b>0.0018</b>	<b>0.30<sup>2</sup></b>

**Remark :** <sup>1</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).  
<sup>2</sup> Notification of National Environmental Board, No.12, B.E.2538 (1995), published in the Royal Government Gazette No.112 Special Part 27D dated July 13, B.E.2538 (1995) and Notification No.21, B.E.2544 (2001), published in the Royal Government Gazette No.118 Special Part 39D dated April 30, B.E.2544 (2001), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer

  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT


**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดริง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568776 E, 0835514 N  
**Measured Date** : April 6-9, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : CO NDIR Analyzer Thermo Model 48C Serial Number 0415406564

**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB295-007  
**Report No.** : 2023-RAAG885  
**Report Date** : April 25, 2023

Interval Time	Result CO (ppm)						Standard <sup>1'</sup>
	Apr 6-7, 23		Apr 7-8, 23		Apr 8-9, 23		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
12:00-13:00	0.4	-	0.3	0.4	0.3	0.4	
13:00-14:00	0.3	-	0.3	0.4	0.2	0.4	
14:00-15:00	0.4	-	0.3	0.3	0.3	0.4	
15:00-16:00	0.4	-	0.3	0.3	0.3	0.4	
16:00-17:00	0.5	-	0.3	0.3	0.3	0.3	
17:00-18:00	0.6	-	0.3	0.3	0.3	0.3	
18:00-19:00	0.6	-	0.5	0.3	0.4	0.3	
19:00-20:00	0.4	0.4	0.4	0.3	0.6	0.3	
20:00-21:00	0.6	0.5	0.7	0.4	0.6	0.4	
21:00-22:00	0.6	0.5	0.8	0.4	0.6	0.4	
22:00-23:00	0.6	0.5	0.8	0.5	0.5	0.4	
23:00-00:00	0.5	0.6	0.5	0.5	0.4	0.5	
00:00-01:00	0.5	0.6	0.5	0.6	0.4	0.5	
01:00-02:00	0.4	0.5	0.5	0.6	0.4	0.5	
02:00-03:00	0.5	0.5	0.4	0.6	0.4	0.5	
03:00-04:00	0.5	0.5	0.4	0.6	0.4	0.5	
04:00-05:00	0.5	0.5	0.4	0.5	0.4	0.4	
05:00-06:00	0.5	0.5	0.5	0.5	0.4	0.4	
06:00-07:00	0.5	0.5	0.4	0.4	0.4	0.4	
07:00-08:00	0.4	0.5	0.4	0.4	0.4	0.4	
08:00-09:00	0.5	0.5	0.6	0.4	0.4	0.4	
09:00-10:00	0.4	0.5	0.5	0.4	0.5	0.4	
10:00-11:00	0.2	0.4	0.3	0.4	0.4	0.4	
11:00-12:00	0.2	0.4	0.3	0.4	0.3	0.4	
24 Hours Average	0.5	-	0.4	-	0.4	-	-
1 Hour Maximum	0.6	-	0.8	-	0.6	-	30
8 Hours Maximum	-	0.6	-	0.6	-	0.5	9

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer

  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor


## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดั่ง  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีดั่ง 1) ตำบลทับเที่ยง อำเภอเมืองดั่ง จังหวัดดั่ง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองดั่ง จังหวัดดั่ง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568773 E, 0835513 N  
**Measured Date** : May 4-7, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number NGABK8F2

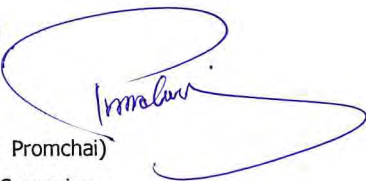
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB711-007  
**Report No.** : 2023-RAAI533  
**Report Date** : May 16, 2023

Interval Time	Result NO <sub>2</sub> (ppm)			Standard <sup>1'</sup>
	May 4-5, 23	May 5-6, 23	May 6-7, 23	
16:00-17:00	0.0096	0.0065	0.0060	
17:00-18:00	0.0118	0.0075	0.0070	
18:00-19:00	0.0114	0.0118	0.0084	
19:00-20:00	0.0116	0.0155	0.0129	
20:00-21:00	0.0177	0.0146	0.0110	
21:00-22:00	0.0148	0.0134	0.0104	
22:00-23:00	0.0124	0.0090	0.0084	
23:00-00:00	0.0098	0.0051	0.0069	
00:00-01:00	0.0102	0.0048	0.0048	
01:00-02:00	0.0103	0.0048	0.0047	
02:00-03:00	0.0089	0.0053	0.0039	
03:00-04:00	0.0072	0.0053	0.0039	
04:00-05:00	0.0064	0.0050	0.0041	
05:00-06:00	0.0060	0.0055	0.0051	
06:00-07:00	0.0063	0.0071	0.0056	
07:00-08:00	0.0085	0.0061	0.0065	
08:00-09:00	0.0081	0.0070	0.0057	
09:00-10:00	0.0067	0.0059	0.0063	
10:00-11:00	0.0073	0.0049	0.0048	
11:00-12:00	0.0062	0.0049	0.0047	
12:00-13:00	0.0060	0.0047	0.0049	
13:00-14:00	0.0068	0.0053	0.0049	
14:00-15:00	0.0066	0.0051	0.0057	
15:00-16:00	0.0075	0.0056	0.0055	
<b>24 Hours Average</b>	<b>0.0091</b>	<b>0.0071</b>	<b>0.0063</b>	-
<b>1 Hour Maximum</b>	<b>0.0177</b>	<b>0.0155</b>	<b>0.0129</b>	<b>0.17</b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), Notification No.28, B.E.2550 (2007), published in the Royal Government Gazette No.124 Special Part 58D dated May 14, B.E.2550 (2007) and Notification No.33, B.E.2552 (2009), published in the Royal Government Gazette No.126 Special Part 114D dated August 14, B.E.2552 (2009), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดรง  
**Project Location** : ทางหลวงชนบท ดง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568773 E, 0835513 N  
**Measured Date** : May 4-7, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : SO<sub>2</sub> UV-Fluorescence Analyzer Horiba Model APSA-370 Serial Number 4X01KWWU


**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB711-007  
**Report No.** : 2023-RAAI534  
**Report Date** : May 16, 2023

Interval Time	Result SO <sub>2</sub> (ppm)			Standard
	May 4-5, 23	May 5-6, 23	May 6-7, 23	
16:00-17:00	0.0010	0.0010	0.0010	
17:00-18:00	0.0013	0.0009	0.0008	
18:00-19:00	0.0011	0.0008	0.0008	
19:00-20:00	0.0010	0.0008	0.0008	
20:00-21:00	0.0009	0.0010	0.0009	
21:00-22:00	0.0008	0.0007	0.0009	
22:00-23:00	0.0009	0.0008	0.0009	
23:00-00:00	0.0008	0.0007	0.0009	
00:00-01:00	0.0009	0.0007	0.0009	
01:00-02:00	0.0010	0.0007	0.0010	
02:00-03:00	0.0009	0.0007	0.0012	
03:00-04:00	0.0009	0.0006	0.0012	
04:00-05:00	0.0010	0.0006	0.0011	
05:00-06:00	0.0010	0.0006	0.0008	
06:00-07:00	0.0010	0.0006	0.0007	
07:00-08:00	0.0014	0.0007	0.0007	
08:00-09:00	0.0012	0.0007	0.0007	
09:00-10:00	0.0010	0.0007	0.0007	
10:00-11:00	0.0007	0.0009	0.0007	
11:00-12:00	0.0005	0.0011	0.0008	
12:00-13:00	0.0007	0.0011	0.0009	
13:00-14:00	0.0011	0.0012	0.0009	
14:00-15:00	0.0008	0.0012	0.0010	
15:00-16:00	0.0009	0.0009	0.0006	
<b>24 Hours Average</b>	<b>0.0010</b>	<b>0.0008</b>	<b>0.0009</b>	<b>0.12<sup>1'</sup></b>
<b>1 Hour Maximum</b>	<b>0.0014</b>	<b>0.0012</b>	<b>0.0012</b>	<b>0.30<sup>2'</sup></b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).  
<sup>2'</sup> Notification of National Environmental Board, No.12, B.E.2538 (1995), published in the Royal Government Gazette No.112 Special Part 27D dated July 13, B.E.2538 (1995) and Notification No.21, B.E.2544 (2001), published in the Royal Government Gazette No.118 Special Part 39D dated April 30, B.E.2544 (2001), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9 Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ตรัง  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568773 E, 0835513 N  
**Measured Date** : May 4-7, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : CO NDIR Analyzer Horiba Model APMA-370 Serial Number 4N02XP27

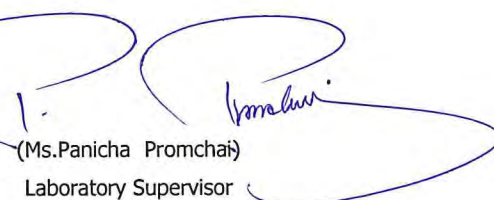
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AB711-007  
**Report No.** : 2023-RAAI535  
**Report Date** : May 16, 2023

Interval Time	Result CO (ppm)						Standard <sup>1'</sup>
	May 4-5, 23		May 5-6, 23		May 6-7, 23		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
16:00-17:00	0.3	-	0.3	0.3	0.3	0.3	
17:00-18:00	0.3	-	0.3	0.3	0.3	0.3	
18:00-19:00	0.4	-	0.4	0.3	0.3	0.3	
19:00-20:00	0.3	-	0.6	0.4	0.4	0.3	
20:00-21:00	0.5	-	0.5	0.4	0.4	0.3	
21:00-22:00	0.5	-	0.5	0.4	0.4	0.3	
22:00-23:00	0.4	-	0.4	0.4	0.3	0.3	
23:00-00:00	0.4	0.4	0.2	0.4	0.3	0.3	
00:00-01:00	0.4	0.4	0.2	0.4	0.2	0.3	
01:00-02:00	0.4	0.4	0.2	0.4	0.3	0.3	
02:00-03:00	0.4	0.4	0.2	0.4	0.2	0.3	
03:00-04:00	0.3	0.4	0.2	0.3	0.2	0.3	
04:00-05:00	0.3	0.4	0.2	0.3	0.2	0.3	
05:00-06:00	0.3	0.4	0.2	0.2	0.2	0.2	
06:00-07:00	0.4	0.4	0.3	0.2	0.3	0.2	
07:00-08:00	0.6	0.4	0.3	0.2	0.3	0.2	
08:00-09:00	0.4	0.4	0.3	0.2	0.3	0.2	
09:00-10:00	0.3	0.4	0.3	0.2	0.3	0.2	
10:00-11:00	0.3	0.4	0.3	0.3	0.2	0.2	
11:00-12:00	0.3	0.4	0.3	0.3	0.3	0.3	
12:00-13:00	0.3	0.4	0.3	0.3	0.2	0.3	
13:00-14:00	0.3	0.4	0.3	0.3	0.2	0.3	
14:00-15:00	0.3	0.4	0.3	0.3	0.3	0.3	
15:00-16:00	0.4	0.3	0.3	0.3	0.3	0.3	
24 Hours Average	0.4	-	0.3	-	0.3	-	-
1 Hour Maximum	0.6	-	0.6	-	0.4	-	30
8 Hours Maximum	-	0.4	-	0.4	-	0.3	9

Remark : <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor


## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ดรีม  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568779 E, 0835512 N  
**Measured Date** : June 2-5, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : NOx Chemiluminescence Analyzer Horiba Model APNA-370 Serial Number NKDVYFRX

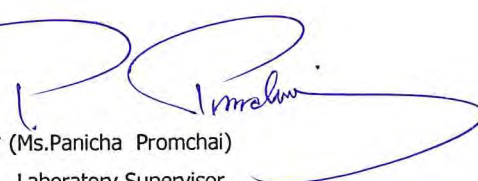
**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC224-007  
**Report No.** : 2023-RAAL043  
**Report Date** : June 14, 2023

Interval Time	Result NO <sub>x</sub> (ppm)			Standard <sup>1'</sup>
	Jun 2-3, 23	Jun 3-4, 23	Jun 4-5, 23	
15:00-16:00	0.0049	0.0035	0.0031	
16:00-17:00	0.0052	0.0029	0.0036	
17:00-18:00	0.0061	0.0034	0.0041	
18:00-19:00	0.0055	0.0048	0.0042	
19:00-20:00	0.0085	0.0059	0.0073	
20:00-21:00	0.0103	0.0073	0.0129	
21:00-22:00	0.0124	0.0044	0.0199	
22:00-23:00	0.0111	0.0048	0.0184	
23:00-00:00	0.0084	0.0037	0.0100	
00:00-01:00	0.0069	0.0035	0.0075	
01:00-02:00	0.0059	0.0033	0.0067	
02:00-03:00	0.0048	0.0040	0.0061	
03:00-04:00	0.0042	0.0037	0.0045	
04:00-05:00	0.0032	0.0040	0.0042	
05:00-06:00	0.0034	0.0038	0.0040	
06:00-07:00	0.0040	0.0039	0.0036	
07:00-08:00	0.0037	0.0042	0.0041	
08:00-09:00	0.0051	0.0046	0.0050	
09:00-10:00	0.0046	0.0049	0.0053	
10:00-11:00	0.0050	0.0058	0.0044	
11:00-12:00	0.0037	0.0035	0.0071	
12:00-13:00	0.0041	0.0028	0.0080	
13:00-14:00	0.0044	0.0031	0.0068	
14:00-15:00	0.0038	0.0031	0.0059	
<b>24 Hours Average</b>	<b>0.0058</b>	<b>0.0041</b>	<b>0.0069</b>	-
<b>1 Hour Maximum</b>	<b>0.0124</b>	<b>0.0073</b>	<b>0.0199</b>	<b>0.17</b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), Notification No.28, B.E.2550 (2007), published in the Royal Government Gazette No.124 Special Part 58D dated May 14, B.E.2550 (2007) and Notification No.33, B.E.2552 (2009), published in the Royal Government Gazette No.126 Special Part 114D dated August 14, B.E.2552 (2009), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor




## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ็นท์ ดริง  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีดรงค์ 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568779 E, 0835512 N  
**Measured Date** : June 2-5, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : SO<sub>2</sub> UV-Fluorescence Analyzer Horiba Model APSA-370 Serial Number X7L602W6


**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC224-007  
**Report No.** : 2023-RAAL044  
**Report Date** : June 14, 2023

Interval Time	Result SO <sub>2</sub> (ppm)			Standard
	Jun 2-3, 23	Jun 3-4, 23	Jun 4-5, 23	
15:00-16:00	0.0015	0.0017	0.0015	
16:00-17:00	0.0015	0.0017	0.0016	
17:00-18:00	0.0014	0.0016	0.0014	
18:00-19:00	0.0014	0.0019	0.0010	
19:00-20:00	0.0014	0.0018	0.0009	
20:00-21:00	0.0014	0.0017	0.0008	
21:00-22:00	0.0013	0.0009	0.0007	
22:00-23:00	0.0013	0.0012	0.0007	
23:00-00:00	0.0012	0.0013	0.0006	
00:00-01:00	0.0012	0.0013	0.0006	
01:00-02:00	0.0012	0.0014	0.0006	
02:00-03:00	0.0012	0.0010	0.0007	
03:00-04:00	0.0012	0.0009	0.0007	
04:00-05:00	0.0014	0.0010	0.0007	
05:00-06:00	0.0014	0.0009	0.0008	
06:00-07:00	0.0013	0.0009	0.0010	
07:00-08:00	0.0014	0.0008	0.0008	
08:00-09:00	0.0014	0.0010	0.0008	
09:00-10:00	0.0012	0.0011	0.0011	
10:00-11:00	0.0015	0.0013	0.0015	
11:00-12:00	0.0015	0.0012	0.0020	
12:00-13:00	0.0015	0.0011	0.0011	
13:00-14:00	0.0016	0.0012	0.0018	
14:00-15:00	0.0011	0.0014	0.0019	
<b>24 Hours Average</b>	<b>0.0014</b>	<b>0.0013</b>	<b>0.0011</b>	<b>0.12<sup>1'</sup></b>
<b>1 Hour Maximum</b>	<b>0.0016</b>	<b>0.0019</b>	<b>0.0020</b>	<b>0.30<sup>2'</sup></b>

**Remark :** <sup>1'</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995) and Notification No.24, B.E.2547 (2004), published in the Royal Government Gazette No.121 Special Part 104D dated September 22, B.E.2547 (2004), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).  
<sup>2'</sup> Notification of National Environmental Board, No.12, B.E.2538 (1995), published in the Royal Government Gazette No.112 Special Part 27D dated July 13, B.E.2538 (1995) and Notification No.21, B.E.2544 (2001), published in the Royal Government Gazette No.118 Special Part 39D dated April 30, B.E.2544 (2001), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
 (Ms.Piyatida Pradangkho)  
 Laboratory Reviewer



  
 (Ms.Panicha Promchai)  
 Laboratory Supervisor


## ANALYSIS REPORT

**Customer Name** : Central Pattana Residence Co., Ltd.  
**Address** : 999/9, Rama 1 Road, Pathum Wan, Pathum Wan, Bangkok 10330  
**Project Name** : โครงการ เอสเซ้นท์ ตรัง  
**Project Location** : ทางหลวงชนบท ตง.5036 (ถนนศรีตรัง 1) ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**Measured Source** : Ambient Air Quality  
**Measured Point** : ชุมชนควนขนุน ตำบลทับเที่ยง อำเภอเมืองตรัง จังหวัดตรัง  
**GPS. Coordinate** : UTM (WGS84) 47N 0568779 E, 0835512 N  
**Measured Date** : June 2-5, 2023  
**Measured By** : Mr.Panupon Podang  
**Analyzed By** : Environment Research & Technology Co., Ltd.  
**Measured Instrument** : CO NDIR Analyzer Horiba Model APMA-370 Serial Number YKAC090F


**Quotation No.** : 2023-00283  
**Analysis No.** : 2023-AC224-007  
**Report No.** : 2023-RAAL045  
**Report Date** : June 14, 2023

Interval Time	Result CO (ppm)						Standard <sup>1'</sup>
	Jun 2-3, 23		Jun 3-4, 23		Jun 4-5, 23		
	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	1 hr Avg	8 hr Avg	
15:00-16:00	0.3	-	0.2	0.2	0.2	0.2	
16:00-17:00	0.3	-	0.2	0.2	0.2	0.2	
17:00-18:00	0.2	-	0.2	0.2	0.2	0.2	
18:00-19:00	0.3	-	0.3	0.2	0.2	0.2	
19:00-20:00	0.3	-	0.2	0.2	0.3	0.2	
20:00-21:00	0.4	-	0.3	0.2	0.4	0.2	
21:00-22:00	0.7	-	0.2	0.2	0.5	0.3	
22:00-23:00	0.7	0.4	0.3	0.2	0.4	0.3	
23:00-00:00	0.5	0.4	0.2	0.2	0.4	0.3	
00:00-01:00	0.4	0.4	0.3	0.2	0.5	0.4	
01:00-02:00	0.4	0.5	0.2	0.2	0.4	0.4	
02:00-03:00	0.4	0.5	0.3	0.2	0.4	0.4	
03:00-04:00	0.3	0.5	0.3	0.3	0.3	0.4	
04:00-05:00	0.2	0.4	0.3	0.3	0.3	0.4	
05:00-06:00	0.3	0.4	0.3	0.3	0.3	0.4	
06:00-07:00	0.3	0.4	0.3	0.3	0.3	0.4	
07:00-08:00	0.3	0.3	0.3	0.3	0.3	0.4	
08:00-09:00	0.3	0.3	0.3	0.3	0.4	0.3	
09:00-10:00	0.3	0.3	0.3	0.3	0.4	0.3	
10:00-11:00	0.3	0.3	0.3	0.3	0.2	0.3	
11:00-12:00	0.2	0.3	0.2	0.3	0.3	0.3	
12:00-13:00	0.2	0.3	0.2	0.3	0.3	0.3	
13:00-14:00	0.2	0.3	0.2	0.3	0.3	0.3	
14:00-15:00	0.2	0.2	0.2	0.2	0.3	0.3	
24 Hours Average	0.3	-	0.3	-	0.3	-	-
1 Hour Maximum	0.7	-	0.3	-	0.5	-	30
8 Hours Maximum	-	0.5	-	0.3	-	0.4	9

**Remark :** <sup>1/</sup> Notification of National Environmental Board, No.10, B.E.2538 (1995), published in the Royal Government Gazette No.112 Part 42D dated May 25, B.E.2538 (1995), under the Enhancement and Conservation of National Environmental Quality Act B.E.2535 (1992).

  
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