

Nakkaş - Başakşehir Motorway Project

BACKGROUND AIR QUALITY MEASUREMENT REPORT

S-21-00013

15.06.2021



Test
TS EN ISO/IEC 17025
AB-1361-T

SİGMA Çevre Laboratuvarı Ölçüm ve Analiz Hizmetleri Tic. Ltd. Şti.

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Test Report

AB-1361-T

S-21-00013

06.2021

| | |
|---|---|
| Customer Name/Address | AIRS Hava Kalitesi Yönetim Hizmetleri Ltd Şti Ankara |
| Order No. | S-21-00013 |
| Name and identity of test item | Immission (Air Quality) |
| The date of receipt of test item | 04.03.2021 / 04.04.2021 / 04.05.2021 / 04.06.2021 |
| Remarks | - |
| Date of Test | 01-02-04-08.06.2021 |
| Number of Pages of the Report | 49 Pages |
| Test Method | TS EN 12341, EPA 40 CFR PART 50, TS 2342, TS EN 13528-1, 2, 3 |
| Test results | The test results are given in the measurement result tables. |
| Environmental conditions | Environmental conditions during the measurement are given in the measurement result tables. |
| Measurement uncertainty | Measurement uncertainties are not given in the report since they are not requested by the customer. |
| Comments | - |
| Results obtained from the external supplier laboratory should be clearly marked. | PM ₁₀ and PM _{2.5} measurements were made by the subcontractor laboratory, and passive sampling analyzes were made by the collaborative laboratory. |

SİGMA Environmental Laboratory Measurement and Analysis Services Trading Company accredited by TÜRKAK under registration number AB-1361-T for TS EN ISO/IEC 17025 as test laboratory.

Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

| Seal | Person in charge of test | Reporter and Approval |
|------|--|-----------------------------------|
| | Engin TUNCA – İmran KÖKERER Field Staff | Hakan BEDEL Laboratory Manager |

S-PR65/30.09.2017/Rev02/16.07.2019

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1. INTRODUCTION

TS EN 12341 “Ambient Air - Standard Gravimetric Measurement Method for Determination of PM₁₀ and PM_{2.5} Mass Concentrations of Suspended Granular”, EPA 40 CFR Part 50 Appendix J and M “Reference Method for Determining Particulate Matter in Atmosphere as PM10”, TS 2342 “ Methods for The Measurement of Air Pollution Methods for The Installation and The Use of The Directional Dust Gauges The”, TS EN 13528-1 “Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 1: General requirements”, TS EN 13528-2 “Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 2: Specific requirements and test methods” and TS EN 13528-3 “Ambient air quality - Diffusive samplers for the determination of concentrations of gases and vapours - Requirements and test methods - Part 3: Guide to selection, use and maintenance” methods were used in the measurements.

2. LOCATION OF SAMPLING POINTS ON SATELLITE IMAGE

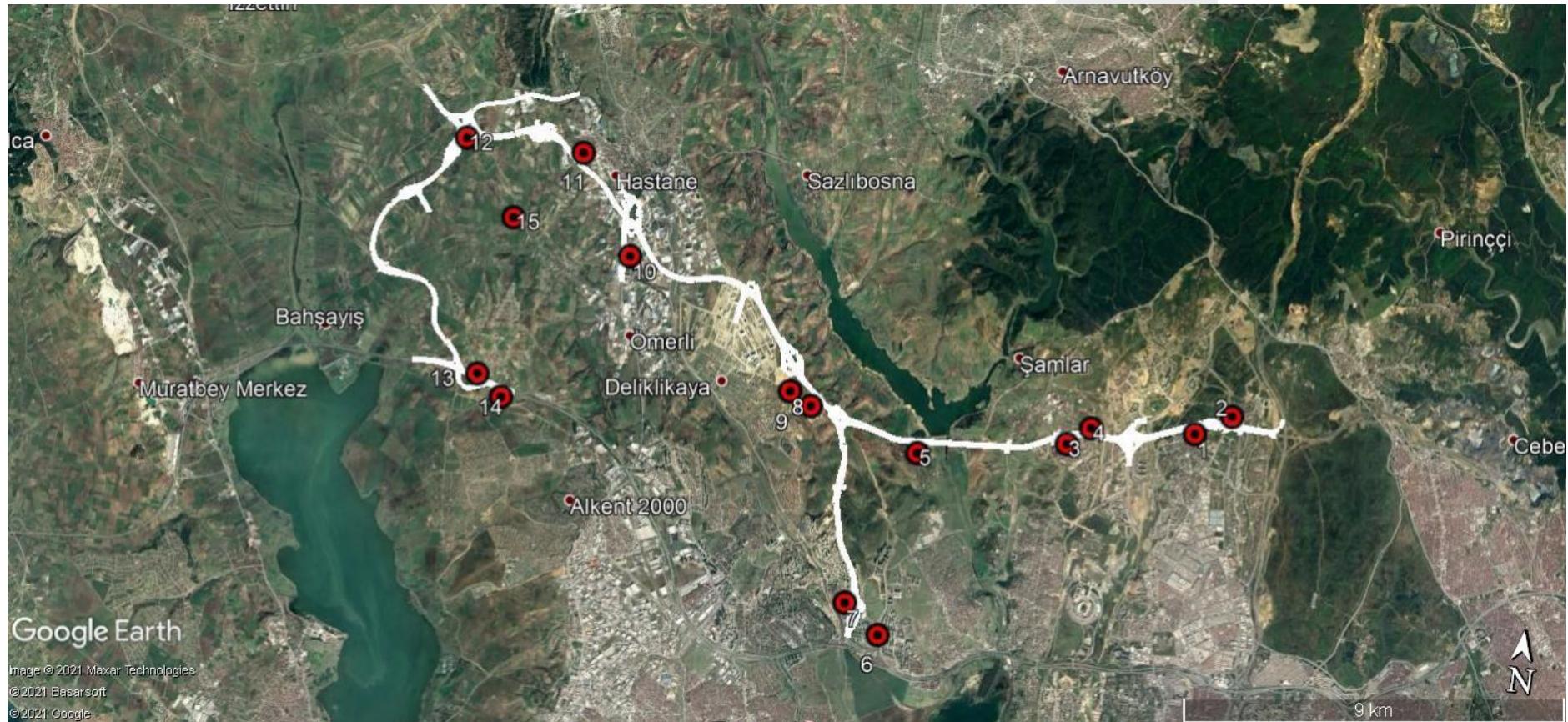


Figure 1 Sampling Points on satellite Map

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3. RESULTS

Table 1 Sampling Point Coordinates and Sampling dates

| Location | Coordinates | | Sampling Dates | |
|-----------|-------------|------------|--|-------------------------------------|
| | | | Parameter | |
| | East | North | VOC, BTEX, NO ₂ , SO ₂ Dust Deposition, VOC, BTEX, NO ₂ , SO ₂ | PM ₁₀ -PM _{2.5} |
| 1 | 41.114485° | 28.790382° | 03.02.2021 – 03.04.2021 | 03.02.2021 – 03.03.2021 |
| 2 | 41.119227° | 28.800095° | 03.02.2021 – 03.04.2021 | 03.02.2021 – 03.03.2021 |
| 3 | 41.108593° | 28.755052° | 03.02.2021 – 03.04.2021 | 03.02.2021 – 03.03.2021 |
| 4 | 41.112649° | 28.761244° | 03.03.2021 – 03.05.2021 | 03.03.2021 – 03.04.2021 |
| 5 | 41.102255° | 28.713745° | 03.03.2021 – 03.05.2021 | 03.03.2021 – 03.04.2021 |
| 6 | 41.062912° | 28.709867° | 03.03.2021 – 03.05.2021 | 03.03.2021 – 03.04.2021 |
| 7 | 41.068713° | 28.699457° | 03.03.2021 – 03.05.2021 | 03.03.2021 – 03.04.2021 |
| 8 | 41.111449° | 28.675857° | 03.04.2021 – 03.06.2021 | 03.04.2021 – 03.05.2021 |
| 9 | 41.108968° | 28.682187° | 03.04.2021 – 03.06.2021 | 03.04.2021 – 03.05.2021 |
| 10 | 41.134971° | 28.625849° | 03.04.2021 – 03.06.2021 | 03.04.2021 – 03.05.2021 |
| 11 | 41.155279° | 28.608765° | 03.04.2021 – 03.06.2021 | 03.04.2021 – 03.05.2021 |
| 12 | 41.154953° | 28.575614° | 03.04.2021 – 03.06.2021 | 03.05.2021 – 03.06.2021 |
| 13 | 41.105773° | 28.587966° | 03.04.2021 – 03.06.2021 | 03.05.2021 – 03.06.2021 |
| 14 | 41.101598° | 28.595475° | 03.04.2021 – 03.06.2021 | 03.05.2021 – 03.06.2021 |
| 15 | 41.139617° | 28.591788° | 03.04.2021 – 03.06.2021 | 03.05.2021 – 03.06.2021 |

Table 2 Results Of The Dust Deposition Measurement

| Location | Parameter | Results (mg/ m ² -gün) | | | Limit Values | | | |
|----------|--------------------|--------------------------------------|---------------------------|---------|---------------------|----|-----|---------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPOI ¹ | EU | WHO | Other Guidelines |
| 1 | Dust Deposition | 73.02 | 133.80 | 103.4 | 210 | - | - | - |
| 2 | | 64.82 | 121.51 | 93.2 | | | | |
| 3 | | 59.99 | 115.94 | 88.0 | | | | |
| 4 | | 118.64 | 169.48 | 144.1 | | | | |
| 5 | | 103.14 | 146.45 | 124.8 | | | | |
| 6 | | 146.30 | 196.99 | 171.6 | | | | |
| 7 | | 134.75 | 174.31 | 154.5 | | | | |
| 8 | | 132.16 | 180.58 | 156.4 | | | | |
| 9 | | 123.05 | 170.61 | 146.8 | | | | |
| 10 | | 167.30 | 211.17 | 189.2 | | | | |
| 11 | | 92.96 | 127.68 | 110.3 | | | | |
| 12 | | 90.50 | 134.72 | 112.6 | | | | |
| 13 | | 203.75 | 225.64 | 214.7 | | | | |
| 14 | | 214.27 | 228.42 | 221.3 | | | | |
| 15 | | 95.32 | 121.93 | 108.6 | | | | |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

Table 3 Results Of The NO₂ Measurement

| Location | Parameter | Results (µg/m ³) | | | Limit Values | | | |
|----------|-----------------|----------------------------------|---------------------------|---------|---------------------|-----------------|------------------|---------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPOI ¹ | EU ² | WHO ³ | Other Guidelines |
| 1 | NO ₂ | 33.07 | 32.63 | 32.9 | 40 | 40 | 40 | - |
| 2 | | 28.76 | 28.40 | 28.6 | | | | |
| 3 | | 28.85 | 28.76 | 28.8 | | | | |
| 4 | | 36.94 | 32.20 | 34.6 | | | | |
| 5 | | 24.62 | 21.27 | 22.9 | | | | |
| 6 | | 40.99 | 35.82 | 38.4 | | | | |
| 7 | | 6.37 | 21.33 | 13.9 | | | | |
| 8 | | 24.94 | 21.43 | 23.2 | | | | |
| 9 | | 24.96 | 21.39 | 23.2 | | | | |
| 10 | | 42.79 | 36.59 | 39.7 | | | | |
| 11 | | 32.32 | 27.58 | 30.0 | | | | |
| 12 | | 28.61 | 24.63 | 26.6 | | | | |
| 13 | | 8.47 | 27.43 | 18.0 | | | | |
| 14 | | 32.12 | 27.80 | 30.0 | | | | |
| 15 | | 25.11 | 21.46 | 23.3 | | | | |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 4 Results of The SO₂ Measurement

| Location | Parameter | Results (µg/m ³) | | | Limit Values | | | |
|----------|-----------------|------------------------------|------------------------|---------|---------------------|-----------------|------------------|------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPOI ¹ | EU ² | WHO ³ | Other Guidelines |
| 1 | SO ₂ | 46.32 | 38.25 | 42.3 | 60 | 20 | 20 | - |
| 2 | | 40.95 | 38.57 | 39.8 | | | | |
| 3 | | 41.13 | 38.32 | 39.7 | | | | |
| 4 | | 49.31 | 43.80 | 46.6 | | | | |
| 5 | | 33.26 | 29.47 | 31.4 | | | | |
| 6 | | 54.88 | 49.31 | 52.1 | | | | |
| 7 | | 33.28 | 29.41 | 31.3 | | | | |
| 8 | | 34.14 | 40.23 | 37.2 | | | | |
| 9 | | 34.42 | 39.96 | 37.2 | | | | |
| 10 | | 58.15 | 68.75 | 63.5 | | | | |
| 11 | | 44.08 | 51.89 | 48.0 | | | | |
| 12 | | 39.13 | 45.64 | 42.4 | | | | |
| 13 | | 43.72 | 51.14 | 47.4 | | | | |
| 14 | | 43.91 | 51.30 | 47.6 | | | | |
| 15 | | 34.02 | 39.82 | 36.9 | | | | |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC” as daily

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide” as daily

Table 5 Results Of The VOC Measurement

| Location | Parameter | Results ($\mu\text{g}/\text{m}^3$) | | | Limit Values | | | |
|----------|-----------|---|---------------------------|---------|---------------------|----|-----|---------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPOI ¹ | EU | WHO | Other Guidelines |
| 1 | VOC | 28.76 | 25.28 | 26.99 | 70 | - | - | - |
| 2 | | 22.78 | 21.93 | 22.58 | | | | |
| 3 | | 27.92 | 28.10 | 28.09 | | | | |
| 4 | | 41.47 | 39.24 | 40.37 | | | | |
| 5 | | 14.15 | 12.93 | 13.57 | | | | |
| 6 | | 30.80 | 27.30 | 29.08 | | | | |
| 7 | | 30.35 | 27.14 | 28.83 | | | | |
| 8 | | 33.79 | 35.70 | 34.83 | | | | |
| 9 | | 34.73 | 35.05 | 34.91 | | | | |
| 10 | | 36.23 | 38.87 | 37.54 | | | | |
| 11 | | 37.41 | 38.91 | 38.12 | | | | |
| 12 | | 27.82 | 29.34 | 28.63 | | | | |
| 13 | | 25.96 | 27.40 | 26.69 | | | | |
| 14 | | 26.00 | 27.59 | 26.85 | | | | |
| 15 | | 21.80 | 21.79 | 21.78 | | | | |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

Table 6 Results Of The Benzene Measurement

| Location | Parameter | Results ($\mu\text{g}/\text{m}^3$) | | | Limit Values | | | |
|----------|-----------|---|---------------------------|---------|--------------|-----------------|-----|---------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPO | EU ¹ | WHO | Other Guidelines |
| 1 | Benzene | 4.47 | 4.07 | 4.27 | - | 5 | - | - |
| 2 | | 4.23 | 4.01 | 4.12 | | | | |
| 3 | | 5.21 | 4.78 | 5.00 | | | | |
| 4 | | 5.99 | 6.34 | 6.17 | | | | |
| 5 | | 3.11 | 2.9 | 3.01 | | | | |
| 6 | | 4.45 | 4.13 | 4.29 | | | | |
| 7 | | 4.37 | 4.08 | 4.23 | | | | |
| 8 | | 4.78 | 5.39 | 5.09 | | | | |
| 9 | | 5.47 | 5.32 | 5.40 | | | | |
| 10 | | 5.37 | 5.87 | 5.62 | | | | |
| 11 | | 5.51 | 5.79 | 5.65 | | | | |
| 12 | | 4.84 | 5.33 | 5.09 | | | | |
| 13 | | 4.97 | 5.08 | 5.03 | | | | |
| 14 | | 5.14 | 4.9 | 5.02 | | | | |
| 15 | | 3.82 | 3.97 | 3.90 | | | | |

¹ Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 7 Results Of The Toluene Measurement

| Location | Parameter | Results ($\mu\text{g}/\text{m}^3$) | | | Limit Values | | | |
|----------|-----------|---|---------------------------|---------|--------------|----|------------------|---------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPO | EU | WHO ¹ | Other Guidelines |
| 1 | Toluene | 3.37 | 2.87 | 3.12 | - | - | 260 | - |
| 2 | | 3.33 | 3.08 | 3.21 | | | | |
| 3 | | 4.05 | 4.13 | 4.09 | | | | |
| 4 | | 4.98 | 4.56 | 4.77 | | | | |
| 5 | | 2.62 | 2.21 | 2.42 | | | | |
| 6 | | 3.7 | 3.36 | 3.53 | | | | |
| 7 | | 3.67 | 3.18 | 3.43 | | | | |
| 8 | | 4.11 | 4.34 | 4.23 | | | | |
| 9 | | 4.25 | 4.32 | 4.29 | | | | |
| 10 | | 4.26 | 4.62 | 4.44 | | | | |
| 11 | | 4.37 | 4.46 | 4.42 | | | | |
| 12 | | 4.39 | 4 | 4.20 | | | | |
| 13 | | 3.57 | 3.98 | 3.78 | | | | |
| 14 | | 3.54 | 4.09 | 3.82 | | | | |
| 15 | | 3.16 | 3.01 | 3.09 | | | | |

¹WHO WHO air quality guidelines for Europe, Chapter 5.14

Table 8 Results Of The Ethylbenzene Measurement

| Location | Parameter | Results (µg/m³) | | | Limit Values | | | |
|----------|--------------|---------------------------|---------------------------|---------|--------------|----|-----|----------------------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPO | EU | WHO | Other Guidelines ¹ |
| 1 | Ethylbenzene | 1.55 | 1.3 | 1.43 | - | - | - | 350,000 |
| 2 | | 1.39 | 1.34 | 1.37 | | | | |
| 3 | | 1.84 | 1.71 | 1.78 | | | | |
| 4 | | 2.26 | 2.17 | 2.22 | | | | |
| 5 | | 1.07 | 1.05 | 1.06 | | | | |
| 6 | | 1.67 | 1.43 | 1.55 | | | | |
| 7 | | 1.68 | 1.38 | 1.53 | | | | |
| 8 | | 1.7 | 1.89 | 1.80 | | | | |
| 9 | | 1.73 | 1.79 | 1.76 | | | | |
| 10 | | 1.93 | 1.97 | 1.95 | | | | |
| 11 | | 2.06 | 1.94 | 2.00 | | | | |
| 12 | | 1.78 | 1.98 | 1.88 | | | | |
| 13 | | 1.52 | 1.83 | 1.68 | | | | |
| 14 | | 1.61 | 1.68 | 1.65 | | | | |
| 15 | | 1.36 | 1.4 | 1.38 | | | | |

¹OSHA PEL, NIOSH REL

Table 9 Results Of The Xylene (m,p,o)Measurement

| Location | Parameter | Results (µg/m ³) | | | Limit Values | | | |
|----------|-------------------|----------------------------------|---------------------------|---------|--------------|----|-----|----------------------------------|
| | | 1 st Period | 2 nd Period | Average | RCAPO | EU | WHO | Other Guidelines ¹ |
| 1 | Xylene (m,p,o) | 6.08 | 5.37 | 5.73 | - | - | - | 350,000 |
| 2 | | 5.91 | 5.46 | 5.69 | | | | |
| 3 | | 7.3 | 6.95 | 7.13 | | | | |
| 4 | | 8.91 | 8.28 | 8.60 | | | | |
| 5 | | 4.53 | 4.25 | 4.39 | | | | |
| 6 | | 6.71 | 5.96 | 6.34 | | | | |
| 7 | | 6.58 | 5.73 | 6.16 | | | | |
| 8 | | 7.37 | 7.45 | 7.41 | | | | |
| 9 | | 7.36 | 7.52 | 7.44 | | | | |
| 10 | | 7.6 | 8.12 | 7.86 | | | | |
| 11 | | 8.02 | 8.38 | 8.20 | | | | |
| 12 | | 7.13 | 7.44 | 7.29 | | | | |
| 13 | | 6.48 | 6.75 | 6.62 | | | | |
| 14 | | 6.48 | 6.86 | 6.67 | | | | |
| 15 | | 5.54 | 5.49 | 5.52 | | | | |

¹OSHA PEL, NIOSH REL

Table 10 Results Of The PM₁₀ Measurement at Location 1

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 1 st Point | PM ₁₀ | 3.02.2021 | 71.01 | 50 | 50 | 50 |
| | | 4.02.2021 | 110.33 | | | |
| | | 5.02.2021 | 110.14 | | | |
| | | 6.02.2021 | 78.08 | | | |
| | | 7.02.2021 | 83.51 | | | |
| | | 8.02.2021 | 51.99 | | | |
| | | 9.02.2021 | 50.18 | | | |
| | | 10.02.2021 | 90.40 | | | |
| | | 11.02.2021 | 36.05 | | | |
| | | 12.02.2021 | 28.08 | | | |
| | | 13.02.2021 | 9.60 | | | |
| | | 14.02.2021 | 10.87 | | | |
| | | 15.02.2021 | 10.87 | | | |
| | | 16.02.2021 | 17.93 | | | |
| | | 17.02.2021 | 30.62 | | | |
| | | 18.02.2021 | 36.78 | | | |
| | | 19.02.2021 | 62.86 | | | |
| | | 20.02.2021 | 25.72 | | | |
| | | 21.02.2021 | 55.98 | | | |
| | | 22.02.2021 | 156.34 | | | |
| | | 23.02.2021 | 55.25 | | | |
| | | 24.02.2021 | 40.94 | | | |
| | | 25.02.2021 | 45.65 | | | |
| | | 26.02.2021 | 99.82 | | | |
| | | 27.02.2021 | 32.07 | | | |
| | | 28.02.2021 | 44.02 | | | |
| | | 1.03.2021 | 14.49 | | | |
| | | 2.03.2021 | 37.50 | | | |
| | | Average | 53.47 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 11 Results Of The PM₁₀ Measurement at Location 2

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 2 nd Point | PM ₁₀ | 3.02.2021 | 54.89 | 50 | 50 | 50 |
| | | 4.02.2021 | 78.80 | | | |
| | | 5.02.2021 | 74.46 | | | |
| | | 6.02.2021 | 56.34 | | | |
| | | 7.02.2021 | 58.70 | | | |
| | | 8.02.2021 | 37.86 | | | |
| | | 9.02.2021 | 39.13 | | | |
| | | 10.02.2021 | 67.75 | | | |
| | | 11.02.2021 | 27.36 | | | |
| | | 12.02.2021 | 20.47 | | | |
| | | 13.02.2021 | 6.52 | | | |
| | | 14.02.2021 | 7.61 | | | |
| | | 15.02.2021 | 8.33 | | | |
| | | 16.02.2021 | 13.41 | | | |
| | | 17.02.2021 | 22.64 | | | |
| | | 18.02.2021 | 26.45 | | | |
| | | 19.02.2021 | 43.48 | | | |
| | | 20.02.2021 | 17.57 | | | |
| | | 21.02.2021 | 42.21 | | | |
| | | 22.02.2021 | 107.79 | | | |
| | | 23.02.2021 | 38.04 | | | |
| | | 24.02.2021 | 28.80 | | | |
| | | 25.02.2021 | 32.61 | | | |
| | | 26.02.2021 | 71.74 | | | |
| | | 27.02.2021 | 24.09 | | | |
| | | 28.02.2021 | 30.25 | | | |
| | | 1.03.2021 | 9.96 | | | |
| | | 2.03.2021 | 27.54 | | | |
| | | Average | 38.39 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 12 Results Of The PM₁₀ Measurement at Location 3

| Location | Parameter | Sampling Date | Results (µg/m ³) | Limit Values | | |
|-----------------------|------------------|----------------|----------------------------------|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 3 rd Point | PM ₁₀ | 3.02.2021 | 54.35 | 50 | 50 | 50 |
| | | 4.02.2021 | 76.99 | | | |
| | | 5.02.2021 | 79.35 | | | |
| | | 6.02.2021 | 59.42 | | | |
| | | 7.02.2021 | 56.16 | | | |
| | | 8.02.2021 | 38.04 | | | |
| | | 9.02.2021 | 40.04 | | | |
| | | 10.02.2021 | 67.93 | | | |
| | | 11.02.2021 | 27.72 | | | |
| | | 12.02.2021 | 21.92 | | | |
| | | 13.02.2021 | 6.70 | | | |
| | | 14.02.2021 | 8.15 | | | |
| | | 15.02.2021 | 8.33 | | | |
| | | 16.02.2021 | 13.41 | | | |
| | | 17.02.2021 | 22.64 | | | |
| | | 18.02.2021 | 26.63 | | | |
| | | 19.02.2021 | 44.75 | | | |
| | | 20.02.2021 | 18.66 | | | |
| | | 21.02.2021 | 44.20 | | | |
| | | 22.02.2021 | 112.86 | | | |
| | | 23.02.2021 | 39.31 | | | |
| | | 24.02.2021 | 28.26 | | | |
| | | 25.02.2021 | 34.42 | | | |
| | | 26.02.2021 | 78.26 | | | |
| | | 27.02.2021 | 23.37 | | | |
| | | 28.02.2021 | 30.62 | | | |
| | | 1.03.2021 | 9.78 | | | |
| | | 2.03.2021 | 28.80 | | | |
| | | Average | 39.32 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 13 Results Of The PM₁₀ Measurement at Location 4

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 4 th Point | PM ₁₀ | 03.03.2021 | 63.59 | 50 | 50 | 50 |
| | | 04.03.2021 | 70.29 | | | |
| | | 05.03.2021 | 36.59 | | | |
| | | 06.03.2021 | 14.86 | | | |
| | | 07.03.2021 | 57.61 | | | |
| | | 08.03.2021 | 62.14 | | | |
| | | 09.03.2021 | 45.83 | | | |
| | | 10.03.2021 | 24.09 | | | |
| | | 11.03.2021 | 43.3 | | | |
| | | 12.03.2021 | 67.03 | | | |
| | | 13.03.2021 | 77.54 | | | |
| | | 14.03.2021 | 93.3 | | | |
| | | 15.03.2021 | 24.09 | | | |
| | | 16.03.2021 | 13.77 | | | |
| | | 17.03.2021 | 29.53 | | | |
| | | 18.03.2021 | 35.51 | | | |
| | | 19.03.2021 | 32.43 | | | |
| | | 20.03.2021 | 11.05 | | | |
| | | 21.03.2021 | 30.62 | | | |
| | | 22.03.2021 | 13.04 | | | |
| | | 23.03.2021 | 16.3 | | | |
| | | 24.03.2021 | 21.2 | | | |
| | | 25.03.2021 | 36.41 | | | |
| | | 26.03.2021 | 57.79 | | | |
| | | 27.03.2021 | 67.21 | | | |
| | | 28.03.2021 | 45.29 | | | |
| | | 29.03.2021 | 37.32 | | | |
| | | 30.03.2021 | 32.79 | | | |
| | | 31.03.2021 | 33.51 | | | |
| | | 01.04.2021 | 51.81 | | | |
| | | 02.04.2021 | 45.29 | | | |
| Average | | 41.65 | 40 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 14 Results Of The PM₁₀ Measurement at Location 5

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 5 th Point | PM ₁₀ | 3.03.2021 | 48.37 | 50 | 50 | 50 |
| | | 4.03.2021 | 52.72 | | | |
| | | 5.03.2021 | 28.26 | | | |
| | | 6.03.2021 | 11.41 | | | |
| | | 7.03.2021 | 43.84 | | | |
| | | 8.03.2021 | 49.09 | | | |
| | | 9.03.2021 | 36.05 | | | |
| | | 10.03.2021 | 17.93 | | | |
| | | 11.03.2021 | 36.78 | | | |
| | | 12.03.2021 | 53.26 | | | |
| | | 13.03.2021 | 59.06 | | | |
| | | 14.03.2021 | 69.75 | | | |
| | | 15.03.2021 | 18.66 | | | |
| | | 16.03.2021 | 10.51 | | | |
| | | 17.03.2021 | 23.01 | | | |
| | | 18.03.2021 | 27.36 | | | |
| | | 19.03.2021 | 26.45 | | | |
| | | 20.03.2021 | 8.88 | | | |
| | | 21.03.2021 | 24.46 | | | |
| | | 22.03.2021 | 10.69 | | | |
| | | 23.03.2021 | 12.32 | | | |
| | | 24.03.2021 | 16.85 | | | |
| | | 25.03.2021 | 28.62 | | | |
| | | 26.03.2021 | 43.12 | | | |
| | | 27.03.2021 | 50.18 | | | |
| | | 28.03.2021 | 36.05 | | | |
| | | 29.03.2021 | 30.43 | | | |
| | | 30.03.2021 | 27.17 | | | |
| | | 31.03.2021 | 23.91 | | | |
| | | 01.04.2021 | 38.77 | | | |
| | | 02.04.2021 | 36.23 | | | |
| | | Average | 32.26 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 15 Results Of The PM₁₀ Measurement at Location 6

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 6 th Point | PM ₁₀ | 3.03.2021 | 72.64 | 50 | 50 | 50 |
| | | 4.03.2021 | 77.36 | | | |
| | | 5.03.2021 | 40.58 | | | |
| | | 6.03.2021 | 16.67 | | | |
| | | 7.03.2021 | 61.78 | | | |
| | | 8.03.2021 | 64.86 | | | |
| | | 9.03.2021 | 50.18 | | | |
| | | 10.03.2021 | 27.17 | | | |
| | | 11.03.2021 | 49.82 | | | |
| | | 12.03.2021 | 71.20 | | | |
| | | 13.03.2021 | 83.70 | | | |
| | | 14.03.2021 | 101.45 | | | |
| | | 15.03.2021 | 25.54 | | | |
| | | 16.03.2021 | 15.04 | | | |
| | | 17.03.2021 | 33.33 | | | |
| | | 18.03.2021 | 38.59 | | | |
| | | 19.03.2021 | 37.14 | | | |
| | | 20.03.2021 | 12.50 | | | |
| | | 21.03.2021 | 32.79 | | | |
| | | 22.03.2021 | 15.22 | | | |
| | | 23.03.2021 | 16.85 | | | |
| | | 24.03.2021 | 23.01 | | | |
| | | 25.03.2021 | 43.66 | | | |
| | | 26.03.2021 | 61.23 | | | |
| | | 27.03.2021 | 75.00 | | | |
| | | 28.03.2021 | 49.46 | | | |
| | | 29.03.2021 | 40.22 | | | |
| | | 30.03.2021 | 38.22 | | | |
| | | 31.03.2021 | 34.24 | | | |
| | | 01.04.2021 | 59.24 | | | |
| | | 02.04.2021 | 50.54 | | | |
| | | Average | 45.78 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 16 Results Of The PM₁₀ Measurement at Location 7

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 7 th Point | PM ₁₀ | 3.03.2021 | 41.30 | 50 | 50 | 50 |
| | | 4.03.2021 | 47.10 | | | |
| | | 5.03.2021 | 25.00 | | | |
| | | 6.03.2021 | 9.60 | | | |
| | | 7.03.2021 | 36.96 | | | |
| | | 8.03.2021 | 42.03 | | | |
| | | 9.03.2021 | 30.07 | | | |
| | | 10.03.2021 | 16.67 | | | |
| | | 11.03.2021 | 30.80 | | | |
| | | 12.03.2021 | 42.75 | | | |
| | | 13.03.2021 | 50.36 | | | |
| | | 14.03.2021 | 59.24 | | | |
| | | 15.03.2021 | 15.76 | | | |
| | | 16.03.2021 | 9.42 | | | |
| | | 17.03.2021 | 20.65 | | | |
| | | 18.03.2021 | 23.91 | | | |
| | | 19.03.2021 | 21.20 | | | |
| | | 20.03.2021 | 7.25 | | | |
| | | 21.03.2021 | 20.65 | | | |
| | | 22.03.2021 | 9.06 | | | |
| | | 23.03.2021 | 10.87 | | | |
| | | 24.03.2021 | 14.67 | | | |
| | | 25.03.2021 | 23.91 | | | |
| | | 26.03.2021 | 37.50 | | | |
| | | 27.03.2021 | 46.38 | | | |
| | | 28.03.2021 | 30.43 | | | |
| | | 29.03.2021 | 26.27 | | | |
| | | 30.03.2021 | 23.37 | | | |
| | | 31.03.2021 | 22.10 | | | |
| | | 01.04.2021 | 33.88 | | | |
| | | 02.04.2021 | 29.53 | | | |
| | | Average | 27.70 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 17 Results Of The PM₁₀ Measurement at Location 8

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 8 th Point | PM ₁₀ | 3.04.2021 | 18.97 | 50 | 50 | 50 |
| | | 4.04.2021 | 22.53 | | | |
| | | 5.04.2021 | 73.15 | | | |
| | | 6.04.2021 | 39.55 | | | |
| | | 7.04.2021 | 8.95 | | | |
| | | 8.04.2021 | 18.60 | | | |
| | | 9.04.2021 | 18.28 | | | |
| | | 10.04.2021 | 18.20 | | | |
| | | 11.04.2021 | 39.55 | | | |
| | | 12.04.2021 | 58.50 | | | |
| | | 13.04.2021 | 43.07 | | | |
| | | 14.04.2021 | 21.61 | | | |
| | | 15.04.2021 | 24.75 | | | |
| | | 16.04.2021 | 22.27 | | | |
| | | 17.04.2021 | 18.96 | | | |
| | | 18.04.2021 | 25.03 | | | |
| | | 19.04.2021 | 31.62 | | | |
| | | 20.04.2021 | 38.32 | | | |
| | | 21.04.2021 | 41.26 | | | |
| | | 22.04.2021 | 54.28 | | | |
| | | 23.04.2021 | 39.23 | | | |
| | | 24.04.2021 | 15.12 | | | |
| | | 25.04.2021 | 25.66 | | | |
| | | 26.04.2021 | 61.43 | | | |
| | | 27.04.2021 | 51.02 | | | |
| | | 28.04.2021 | 32.00 | | | |
| | | 29.04.2021 | 63.17 | | | |
| | | 30.04.2021 | 80.03 | | | |
| | | 1.05.2021 | 58.24 | | | |
| | | 2.05.2021 | 51.62 | | | |
| | | Average | 37.17 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 18 Results Of The PM₁₀ Measurement at Location 9

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 9 th Point | PM ₁₀ | 3.04.2021 | 28.80 | 50 | 50 | 50 |
| | | 4.04.2021 | 36.59 | | | |
| | | 5.04.2021 | 119.20 | | | |
| | | 6.04.2021 | 61.78 | | | |
| | | 7.04.2021 | 13.22 | | | |
| | | 8.04.2021 | 29.53 | | | |
| | | 9.04.2021 | 28.08 | | | |
| | | 10.04.2021 | 29.71 | | | |
| | | 11.04.2021 | 60.69 | | | |
| | | 12.04.2021 | 93.30 | | | |
| | | 13.04.2021 | 67.93 | | | |
| | | 14.04.2021 | 33.70 | | | |
| | | 15.04.2021 | 38.41 | | | |
| | | 16.04.2021 | 34.60 | | | |
| | | 17.04.2021 | 29.53 | | | |
| | | 18.04.2021 | 37.68 | | | |
| | | 19.04.2021 | 50.00 | | | |
| | | 20.04.2021 | 57.07 | | | |
| | | 21.04.2021 | 64.67 | | | |
| | | 22.04.2021 | 80.80 | | | |
| | | 23.04.2021 | 56.52 | | | |
| | | 24.04.2021 | 23.19 | | | |
| | | 25.04.2021 | 42.03 | | | |
| | | 26.04.2021 | 100.00 | | | |
| | | 27.04.2021 | 83.51 | | | |
| | | 28.04.2021 | 52.36 | | | |
| | | 29.04.2021 | 101.81 | | | |
| | | 30.04.2021 | 130.62 | | | |
| | | 1.05.2021 | 92.93 | | | |
| | | 2.05.2021 | 80.98 | | | |
| | | Average | 58.64 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 19 Results Of The PM₁₀ Measurement at Location 10

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 10 th Point | PM ₁₀ | 3.04.2021 | 30.98 | 50 | 50 | 50 |
| | | 4.04.2021 | 40.76 | | | |
| | | 5.04.2021 | 132.07 | | | |
| | | 6.04.2021 | 70.47 | | | |
| | | 7.04.2021 | 14.31 | | | |
| | | 8.04.2021 | 32.25 | | | |
| | | 9.04.2021 | 32.25 | | | |
| | | 10.04.2021 | 32.43 | | | |
| | | 11.04.2021 | 66.30 | | | |
| | | 12.04.2021 | 98.37 | | | |
| | | 13.04.2021 | 77.72 | | | |
| | | 14.04.2021 | 36.96 | | | |
| | | 15.04.2021 | 42.75 | | | |
| | | 16.04.2021 | 36.96 | | | |
| | | 17.04.2021 | 35.33 | | | |
| | | 18.04.2021 | 42.39 | | | |
| | | 19.04.2021 | 55.07 | | | |
| | | 20.04.2021 | 62.14 | | | |
| | | 21.04.2021 | 69.02 | | | |
| | | 22.04.2021 | 92.93 | | | |
| | | 23.04.2021 | 66.12 | | | |
| | | 24.04.2021 | 25.54 | | | |
| | | 25.04.2021 | 45.47 | | | |
| | | 26.04.2021 | 103.44 | | | |
| | | 27.04.2021 | 85.69 | | | |
| | | 28.04.2021 | 58.51 | | | |
| | | 29.04.2021 | 109.60 | | | |
| | | 30.04.2021 | 141.49 | | | |
| | | 1.05.2021 | 100.00 | | | |
| | | 2.05.2021 | 89.31 | | | |
| | | Average | 64.22 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 20 Results Of The PM₁₀ Measurement at Location 11

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 11 th Point | PM ₁₀ | 3.04.2021 | 17.93 | 50 | 50 | 50 |
| | | 4.04.2021 | 23.73 | | | |
| | | 5.04.2021 | 75.36 | | | |
| | | 6.04.2021 | 42.21 | | | |
| | | 7.04.2021 | 8.51 | | | |
| | | 8.04.2021 | 18.48 | | | |
| | | 9.04.2021 | 18.84 | | | |
| | | 10.04.2021 | 19.02 | | | |
| | | 11.04.2021 | 38.04 | | | |
| | | 12.04.2021 | 57.25 | | | |
| | | 13.04.2021 | 45.11 | | | |
| | | 14.04.2021 | 22.64 | | | |
| | | 15.04.2021 | 23.55 | | | |
| | | 16.04.2021 | 22.28 | | | |
| | | 17.04.2021 | 19.02 | | | |
| | | 18.04.2021 | 23.91 | | | |
| | | 19.04.2021 | 32.07 | | | |
| | | 20.04.2021 | 35.69 | | | |
| | | 21.04.2021 | 40.94 | | | |
| | | 22.04.2021 | 51.45 | | | |
| | | 23.04.2021 | 38.22 | | | |
| | | 24.04.2021 | 14.86 | | | |
| | | 25.04.2021 | 25.00 | | | |
| | | 26.04.2021 | 63.95 | | | |
| | | 27.04.2021 | 53.08 | | | |
| | | 28.04.2021 | 31.88 | | | |
| | | 29.04.2021 | 60.51 | | | |
| | | 30.04.2021 | 84.06 | | | |
| | | 1.05.2021 | 56.16 | | | |
| | | 2.05.2021 | 54.71 | | | |
| Average | | 37.28 | 40 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 21 Results Of The PM₁₀ Measurement at Location 12

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 12 th Point | PM ₁₀ | 3.05.2021 | 51.27 | 50 | 50 | 50 |
| | | 4.05.2021 | 61.78 | | | |
| | | 5.05.2021 | 84.24 | | | |
| | | 6.05.2021 | 109.78 | | | |
| | | 7.05.2021 | 59.78 | | | |
| | | 8.05.2021 | 25.18 | | | |
| | | 9.05.2021 | 35.33 | | | |
| | | 10.05.2021 | 35.33 | | | |
| | | 11.05.2021 | 26.09 | | | |
| | | 12.05.2021 | 37.68 | | | |
| | | 13.05.2021 | 43.30 | | | |
| | | 14.05.2021 | 44.20 | | | |
| | | 15.05.2021 | 31.52 | | | |
| | | 16.05.2021 | 50.36 | | | |
| | | 17.05.2021 | 49.09 | | | |
| | | 18.05.2021 | 51.99 | | | |
| | | 19.05.2021 | 88.41 | | | |
| | | 20.05.2021 | 25.36 | | | |
| | | 21.05.2021 | 26.27 | | | |
| | | 22.05.2021 | 59.42 | | | |
| | | 23.05.2021 | 91.49 | | | |
| | | 24.05.2021 | 50.00 | | | |
| | | 25.05.2021 | 44.57 | | | |
| | | 26.05.2021 | 40.22 | | | |
| | | 27.05.2021 | 44.38 | | | |
| | | 28.05.2021 | 26.09 | | | |
| | | 29.05.2021 | 60.33 | | | |
| | | 30.05.2021 | 86.96 | | | |
| | | 31.05.2021 | 49.64 | | | |
| | | 1.06.2021 | 40.76 | | | |
| | | 02.06.2021 | 39.13 | | | |
| Average | | 50.64 | 40 | 40 | 20 | |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 22 Results Of The PM₁₀ Measurement at Location 13

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 13 th Point | PM ₁₀ | 3.05.2021 | 36.05 | RCAPO ¹ | EU ² | WHO ³ |
| | | 4.05.2021 | 40.40 | | | |
| | | 5.05.2021 | 58.33 | | | |
| | | 6.05.2021 | 69.75 | | | |
| | | 7.05.2021 | 39.31 | | | |
| | | 8.05.2021 | 17.21 | | | |
| | | 9.05.2021 | 22.46 | | | |
| | | 10.05.2021 | 23.01 | | | |
| | | 11.05.2021 | 17.57 | | | |
| | | 12.05.2021 | 23.19 | | | |
| | | 13.05.2021 | 28.44 | | | |
| | | 14.05.2021 | 28.80 | | | |
| | | 15.05.2021 | 22.64 | | | |
| | | 16.05.2021 | 32.61 | | | |
| | | 17.05.2021 | 30.43 | | | |
| | | 18.05.2021 | 35.51 | | | |
| | | 19.05.2021 | 57.79 | | | |
| | | 20.05.2021 | 17.75 | | | |
| | | 21.05.2021 | 16.30 | | | |
| | | 22.05.2021 | 41.85 | | | |
| | | 23.05.2021 | 60.51 | | | |
| | | 24.05.2021 | 35.69 | | | |
| | | 25.05.2021 | 31.88 | | | |
| | | 26.05.2021 | 26.81 | | | |
| | | 27.05.2021 | 29.89 | | | |
| | | 28.05.2021 | 17.21 | | | |
| | | 29.05.2021 | 39.31 | | | |
| | | 30.05.2021 | 61.96 | | | |
| | | 31.05.2021 | 35.33 | | | |
| | | 1.06.2021 | 27.36 | | | |
| | | 02.06.2021 | 25.91 | | | |
| | | Average | 33.91 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 23 Results Of The PM₁₀ Measurement at Location 14

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|------------------|---------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 14 th Point | PM ₁₀ | 3.05.2021 | 34.60 | 50 | 50 | 50 |
| | | 4.05.2021 | 39.86 | | | |
| | | 5.05.2021 | 55.07 | | | |
| | | 6.05.2021 | 69.57 | | | |
| | | 7.05.2021 | 40.40 | | | |
| | | 8.05.2021 | 16.49 | | | |
| | | 9.05.2021 | 23.55 | | | |
| | | 10.05.2021 | 23.73 | | | |
| | | 11.05.2021 | 18.48 | | | |
| | | 12.05.2021 | 24.82 | | | |
| | | 13.05.2021 | 29.35 | | | |
| | | 14.05.2021 | 30.25 | | | |
| | | 15.05.2021 | 21.74 | | | |
| | | 16.05.2021 | 32.79 | | | |
| | | 17.05.2021 | 32.43 | | | |
| | | 18.05.2021 | 34.60 | | | |
| | | 19.05.2021 | 56.88 | | | |
| | | 20.05.2021 | 17.39 | | | |
| | | 21.05.2021 | 15.94 | | | |
| | | 22.05.2021 | 40.94 | | | |
| | | 23.05.2021 | 57.61 | | | |
| | | 24.05.2021 | 34.96 | | | |
| | | 25.05.2021 | 29.89 | | | |
| | | 26.05.2021 | 26.99 | | | |
| | | 27.05.2021 | 28.44 | | | |
| | | 28.05.2021 | 17.03 | | | |
| | | 29.05.2021 | 39.13 | | | |
| | | 30.05.2021 | 57.61 | | | |
| | | 31.05.2021 | 33.88 | | | |
| | | 1.06.2021 | 26.09 | | | |
| | | 02.06.2021 | 25.72 | | | |
| | | Average | 33.43 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 24 Results Of The PM₁₀ Measurement at Location 15

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|------------------|----------------|---|--------------------|-----------------|------------------|
| | | | | RCAPO ¹ | EU ² | WHO ³ |
| 15 th Point | PM ₁₀ | 3.05.2021 | 30.62 | 50 | 50 | 50 |
| | | 4.05.2021 | 35.51 | | | |
| | | 5.05.2021 | 48.73 | | | |
| | | 6.05.2021 | 64.31 | | | |
| | | 7.05.2021 | 32.97 | | | |
| | | 8.05.2021 | 14.31 | | | |
| | | 9.05.2021 | 19.38 | | | |
| | | 10.05.2021 | 20.83 | | | |
| | | 11.05.2021 | 16.12 | | | |
| | | 12.05.2021 | 20.83 | | | |
| | | 13.05.2021 | 25.36 | | | |
| | | 14.05.2021 | 27.36 | | | |
| | | 15.05.2021 | 19.57 | | | |
| | | 16.05.2021 | 28.26 | | | |
| | | 17.05.2021 | 26.81 | | | |
| | | 18.05.2021 | 28.99 | | | |
| | | 19.05.2021 | 53.08 | | | |
| | | 20.05.2021 | 14.31 | | | |
| | | 21.05.2021 | 13.95 | | | |
| | | 22.05.2021 | 34.96 | | | |
| | | 23.05.2021 | 51.09 | | | |
| | | 24.05.2021 | 29.35 | | | |
| | | 25.05.2021 | 27.90 | | | |
| | | 26.05.2021 | 23.01 | | | |
| | | 27.05.2021 | 26.81 | | | |
| | | 28.05.2021 | 14.49 | | | |
| | | 29.05.2021 | 36.23 | | | |
| | | 30.05.2021 | 55.07 | | | |
| | | 31.05.2021 | 28.62 | | | |
| | | 1.06.2021 | 22.83 | | | |
| | | 02.06.2021 | 22.46 | | | |
| | | Average | 29.49 | 40 | 40 | 20 |

¹ Limit Values Stipulated in “Regulation on the Control of Air Pollution Originating from Industry”

²Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

³Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 25 Results Of The PM_{2.5} Measurement at Location 1

| Location | Parameter | Sampling Date | Results (µg/m ³) | Limit Values | | |
|-----------------------|-------------------|---------------|----------------------------------|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 1 st Point | PM _{2.5} | 3.02.2021 | 30.98 | - | 50 | 40 |
| | | 4.02.2021 | 34.42 | | | |
| | | 5.02.2021 | 47.64 | | | |
| | | 6.02.2021 | 25.36 | | | |
| | | 7.02.2021 | 28.99 | | | |
| | | 8.02.2021 | 14.13 | | | |
| | | 9.02.2021 | 20.65 | | | |
| | | 10.02.2021 | 31.88 | | | |
| | | 11.02.2021 | 15.94 | | | |
| | | 12.02.2021 | 8.70 | | | |
| | | 13.02.2021 | <3.80 | | | |
| | | 14.02.2021 | <3.80 | | | |
| | | 15.02.2021 | 4.71 | | | |
| | | 16.02.2021 | 5.07 | | | |
| | | 17.02.2021 | 8.33 | | | |
| | | 18.02.2021 | 10.33 | | | |
| | | 19.02.2021 | 26.63 | | | |
| | | 20.02.2021 | 7.97 | | | |
| | | 21.02.2021 | 23.55 | | | |
| | | 22.02.2021 | 55.62 | | | |
| | | 23.02.2021 | 16.49 | | | |
| | | 24.02.2021 | 11.78 | | | |
| | | 25.02.2021 | 15.76 | | | |
| | | 26.02.2021 | 25.54 | | | |
| | | 27.02.2021 | 13.41 | | | |
| | | 28.02.2021 | 17.57 | | | |
| | | 1.03.2021 | 5.07 | | | |
| | | 2.03.2021 | 15.76 | | | |
| | | Average | 20.09 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 26 Results Of The PM_{2.5} Measurement at Location 2

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|----------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 2 nd Point | PM _{2.5} | 3.02.2021 | 15.04 | - | 50 | 40 |
| | | 4.02.2021 | 33.88 | | | |
| | | 5.02.2021 | 22.46 | | | |
| | | 6.02.2021 | 14.67 | | | |
| | | 7.02.2021 | 14.13 | | | |
| | | 8.02.2021 | 16.30 | | | |
| | | 9.02.2021 | 15.94 | | | |
| | | 10.02.2021 | 19.38 | | | |
| | | 11.02.2021 | 11.41 | | | |
| | | 12.02.2021 | 8.33 | | | |
| | | 13.02.2021 | <3.80 | | | |
| | | 14.02.2021 | <3.80 | | | |
| | | 15.02.2021 | <3.80 | | | |
| | | 16.02.2021 | 5.62 | | | |
| | | 17.02.2021 | 9.42 | | | |
| | | 18.02.2021 | 11.41 | | | |
| | | 19.02.2021 | 17.57 | | | |
| | | 20.02.2021 | 7.07 | | | |
| | | 21.02.2021 | 11.05 | | | |
| | | 22.02.2021 | 43.66 | | | |
| | | 23.02.2021 | 10.14 | | | |
| | | 24.02.2021 | 10.51 | | | |
| | | 25.02.2021 | 8.15 | | | |
| | | 26.02.2021 | 31.88 | | | |
| | | 27.02.2021 | 7.25 | | | |
| | | 28.02.2021 | 13.95 | | | |
| | | 1.03.2021 | 4.53 | | | |
| | | 2.03.2021 | 8.51 | | | |
| | | Average | 14.89 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 27 Results Of The PM_{2.5} Measurement at Location 3

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 3 rd Point | PM _{2.5} | 3.02.2021 | 19.02 | - | 50 | 40 |
| | | 4.02.2021 | 22.83 | | | |
| | | 5.02.2021 | 28.99 | | | |
| | | 6.02.2021 | 19.38 | | | |
| | | 7.02.2021 | 20.83 | | | |
| | | 8.02.2021 | 12.14 | | | |
| | | 9.02.2021 | 11.59 | | | |
| | | 10.02.2021 | 16.12 | | | |
| | | 11.02.2021 | 6.70 | | | |
| | | 12.02.2021 | 7.07 | | | |
| | | 13.02.2021 | <3.80 | | | |
| | | 14.02.2021 | <3.80 | | | |
| | | 15.02.2021 | <3.80 | | | |
| | | 16.02.2021 | 3.80 | | | |
| | | 17.02.2021 | 8.51 | | | |
| | | 18.02.2021 | 6.34 | | | |
| | | 19.02.2021 | 16.30 | | | |
| | | 20.02.2021 | 4.35 | | | |
| | | 21.02.2021 | 10.33 | | | |
| | | 22.02.2021 | 25.00 | | | |
| | | 23.02.2021 | 11.78 | | | |
| | | 24.02.2021 | 7.25 | | | |
| | | 25.02.2021 | 7.25 | | | |
| | | 26.02.2021 | 26.99 | | | |
| | | 27.02.2021 | 5.98 | | | |
| | | 28.02.2021 | 10.87 | | | |
| | | 1.03.2021 | <3.80 | | | |
| | | 2.03.2021 | 8.70 | | | |
| | | Average | 13.26 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 28 Results Of The PM_{2,5} Measurement at Location 4

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 4 th Point | PM _{2,5} | 3.03.2021 | 26.81 | - | 50 | 40 |
| | | 4.03.2021 | 18.66 | | | |
| | | 5.03.2021 | 13.41 | | | |
| | | 6.03.2021 | 5.25 | | | |
| | | 7.03.2021 | 20.83 | | | |
| | | 8.03.2021 | 25.54 | | | |
| | | 9.03.2021 | 20.65 | | | |
| | | 10.03.2021 | 9.96 | | | |
| | | 11.03.2021 | 14.86 | | | |
| | | 12.03.2021 | 28.62 | | | |
| | | 13.03.2021 | 21.38 | | | |
| | | 14.03.2021 | 25.00 | | | |
| | | 15.03.2021 | 8.33 | | | |
| | | 16.03.2021 | 5.43 | | | |
| | | 17.03.2021 | 9.06 | | | |
| | | 18.03.2021 | 10.51 | | | |
| | | 19.03.2021 | 11.41 | | | |
| | | 20.03.2021 | 4.53 | | | |
| | | 21.03.2021 | 11.41 | | | |
| | | 22.03.2021 | 3.80 | | | |
| | | 23.03.2021 | 6.70 | | | |
| | | 24.03.2021 | 6.70 | | | |
| | | 25.03.2021 | 13.77 | | | |
| | | 26.03.2021 | 16.67 | | | |
| | | 27.03.2021 | 19.57 | | | |
| | | 28.03.2021 | 13.95 | | | |
| | | 29.03.2021 | 14.13 | | | |
| | | 30.03.2021 | 8.70 | | | |
| | | 31.03.2021 | 13.41 | | | |
| | | 01.04.2021 | 15.58 | | | |
| | | 02.04.2021 | 18.66 | | | |
| | | Average | 14.30 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 29 Results Of The PM_{2.5} Measurement at Location 5

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 5 th Point | PM _{2.5} | 3.03.2021 | 21.56 | - | 50 | 40 |
| | | 4.03.2021 | 16.12 | | | |
| | | 5.03.2021 | 10.33 | | | |
| | | 6.03.2021 | <3.80 | | | |
| | | 7.03.2021 | 12.14 | | | |
| | | 8.03.2021 | 15.58 | | | |
| | | 9.03.2021 | 11.05 | | | |
| | | 10.03.2021 | 6.52 | | | |
| | | 11.03.2021 | 15.04 | | | |
| | | 12.03.2021 | 13.41 | | | |
| | | 13.03.2021 | 26.45 | | | |
| | | 14.03.2021 | 22.28 | | | |
| | | 15.03.2021 | 6.16 | | | |
| | | 16.03.2021 | <3.80 | | | |
| | | 17.03.2021 | 10.87 | | | |
| | | 18.03.2021 | 11.05 | | | |
| | | 19.03.2021 | 10.69 | | | |
| | | 20.03.2021 | <3.80 | | | |
| | | 21.03.2021 | 6.16 | | | |
| | | 22.03.2021 | 3.80 | | | |
| | | 23.03.2021 | <3.80 | | | |
| | | 24.03.2021 | 6.52 | | | |
| | | 25.03.2021 | 10.14 | | | |
| | | 26.03.2021 | 19.02 | | | |
| | | 27.03.2021 | 13.95 | | | |
| | | 28.03.2021 | 15.22 | | | |
| | | 29.03.2021 | 12.14 | | | |
| | | 30.03.2021 | 8.70 | | | |
| | | 31.03.2021 | 7.97 | | | |
| | | 01.04.2021 | 16.12 | | | |
| | | 02.04.2021 | 15.04 | | | |
| | | Average | 12.74 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 30 Results Of The PM_{2,5} Measurement at Location 6

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 6 th Point | PM _{2,5} | 3.03.2021 | 26.99 | - | 50 | 40 |
| | | 4.03.2021 | 25.36 | | | |
| | | 5.03.2021 | 17.21 | | | |
| | | 6.03.2021 | 6.34 | | | |
| | | 7.03.2021 | 20.29 | | | |
| | | 8.03.2021 | 27.90 | | | |
| | | 9.03.2021 | 15.94 | | | |
| | | 10.03.2021 | 7.07 | | | |
| | | 11.03.2021 | 17.21 | | | |
| | | 12.03.2021 | 20.29 | | | |
| | | 13.03.2021 | 34.42 | | | |
| | | 14.03.2021 | 37.14 | | | |
| | | 15.03.2021 | 9.60 | | | |
| | | 16.03.2021 | 5.07 | | | |
| | | 17.03.2021 | 13.04 | | | |
| | | 18.03.2021 | 17.57 | | | |
| | | 19.03.2021 | 16.49 | | | |
| | | 20.03.2021 | 4.53 | | | |
| | | 21.03.2021 | 13.77 | | | |
| | | 22.03.2021 | 5.98 | | | |
| | | 23.03.2021 | 5.25 | | | |
| | | 24.03.2021 | 6.88 | | | |
| | | 25.03.2021 | 19.20 | | | |
| | | 26.03.2021 | 17.93 | | | |
| | | 27.03.2021 | 20.11 | | | |
| | | 28.03.2021 | 15.22 | | | |
| | | 29.03.2021 | 16.67 | | | |
| | | 30.03.2021 | 15.94 | | | |
| | | 31.03.2021 | 12.68 | | | |
| | | 01.04.2021 | 19.20 | | | |
| | | 02.04.2021 | 15.94 | | | |
| | | Average | 16.36 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 31 Results of The PM_{2.5} Measurement at Location 7

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|----------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 7 th Point | PM _{2.5} | 3.03.2021 | 15.04 | - | 50 | 40 |
| | | 4.03.2021 | 17.21 | | | |
| | | 5.03.2021 | 7.61 | | | |
| | | 6.03.2021 | 4.17 | | | |
| | | 7.03.2021 | 14.31 | | | |
| | | 8.03.2021 | 12.14 | | | |
| | | 9.03.2021 | 9.60 | | | |
| | | 10.03.2021 | 5.43 | | | |
| | | 11.03.2021 | 11.23 | | | |
| | | 12.03.2021 | 15.76 | | | |
| | | 13.03.2021 | 21.56 | | | |
| | | 14.03.2021 | 18.12 | | | |
| | | 15.03.2021 | 6.16 | | | |
| | | 16.03.2021 | <3.80 | | | |
| | | 17.03.2021 | 6.34 | | | |
| | | 18.03.2021 | 5.98 | | | |
| | | 19.03.2021 | 6.34 | | | |
| | | 20.03.2021 | <3.80 | | | |
| | | 21.03.2021 | 5.80 | | | |
| | | 22.03.2021 | <3.80 | | | |
| | | 23.03.2021 | <3.80 | | | |
| | | 24.03.2021 | 5.07 | | | |
| | | 25.03.2021 | 6.88 | | | |
| | | 26.03.2021 | 13.22 | | | |
| | | 27.03.2021 | 11.96 | | | |
| | | 28.03.2021 | 8.51 | | | |
| | | 29.03.2021 | 9.60 | | | |
| | | 30.03.2021 | 9.96 | | | |
| | | 31.03.2021 | 7.61 | | | |
| | | 01.04.2021 | 13.77 | | | |
| | | 02.04.2021 | 11.41 | | | |
| | | Average | 10.40 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 32 Results of The PM_{2.5} Measurement at Location 8

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|----------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 8 th Point | PM _{2.5} | 3.04.2021 | 8.51 | - | 50 | 40 |
| | | 4.04.2021 | 9.24 | | | |
| | | 5.04.2021 | 22.28 | | | |
| | | 6.04.2021 | 16.12 | | | |
| | | 7.04.2021 | <3.80 | | | |
| | | 8.04.2021 | 7.79 | | | |
| | | 9.04.2021 | 6.70 | | | |
| | | 10.04.2021 | 7.07 | | | |
| | | 11.04.2021 | 13.95 | | | |
| | | 12.04.2021 | 14.49 | | | |
| | | 13.04.2021 | 17.03 | | | |
| | | 14.04.2021 | 5.80 | | | |
| | | 15.04.2021 | 7.79 | | | |
| | | 16.04.2021 | 9.24 | | | |
| | | 17.04.2021 | 5.25 | | | |
| | | 18.04.2021 | 8.88 | | | |
| | | 19.04.2021 | 7.97 | | | |
| | | 20.04.2021 | 12.14 | | | |
| | | 21.04.2021 | 17.39 | | | |
| | | 22.04.2021 | 13.41 | | | |
| | | 23.04.2021 | 10.33 | | | |
| | | 24.04.2021 | 5.07 | | | |
| | | 25.04.2021 | 8.70 | | | |
| | | 26.04.2021 | 21.38 | | | |
| | | 27.04.2021 | 14.13 | | | |
| | | 28.04.2021 | 10.14 | | | |
| | | 29.04.2021 | 25.00 | | | |
| | | 30.04.2021 | 35.51 | | | |
| | | 1.05.2021 | 18.30 | | | |
| | | 2.05.2021 | 14.49 | | | |
| | | Average | 12.90 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 33 Results of The PM_{2.5} Measurement at Location 9

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|-----------------------|-------------------|----------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 9 th Point | PM _{2.5} | 3.04.2021 | 10.33 | - | 50 | 40 |
| | | 4.04.2021 | 13.22 | | | |
| | | 5.04.2021 | 47.46 | | | |
| | | 6.04.2021 | 23.91 | | | |
| | | 7.04.2021 | 4.35 | | | |
| | | 8.04.2021 | 11.59 | | | |
| | | 9.04.2021 | 11.59 | | | |
| | | 10.04.2021 | 10.87 | | | |
| | | 11.04.2021 | 16.30 | | | |
| | | 12.04.2021 | 32.79 | | | |
| | | 13.04.2021 | 20.11 | | | |
| | | 14.04.2021 | 14.67 | | | |
| | | 15.04.2021 | 12.14 | | | |
| | | 16.04.2021 | 10.87 | | | |
| | | 17.04.2021 | 12.32 | | | |
| | | 18.04.2021 | 9.96 | | | |
| | | 19.04.2021 | 12.68 | | | |
| | | 20.04.2021 | 20.47 | | | |
| | | 21.04.2021 | 26.81 | | | |
| | | 22.04.2021 | 35.33 | | | |
| | | 23.04.2021 | 25.00 | | | |
| | | 24.04.2021 | 8.15 | | | |
| | | 25.04.2021 | 18.30 | | | |
| | | 26.04.2021 | 42.57 | | | |
| | | 27.04.2021 | 26.45 | | | |
| | | 28.04.2021 | 22.28 | | | |
| | | 29.04.2021 | 36.59 | | | |
| | | 30.04.2021 | 38.22 | | | |
| | | 1.05.2021 | 34.78 | | | |
| | | 2.05.2021 | 28.62 | | | |
| | | Average | 21.29 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 34 Results of The PM_{2.5} Measurement at Location 10

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|-------------------|----------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 10 th Point | PM _{2.5} | 3.04.2021 | 10.87 | - | 50 | 40 |
| | | 4.04.2021 | 14.86 | | | |
| | | 5.04.2021 | 53.80 | | | |
| | | 6.04.2021 | 31.34 | | | |
| | | 7.04.2021 | 4.89 | | | |
| | | 8.04.2021 | 8.51 | | | |
| | | 9.04.2021 | 13.04 | | | |
| | | 10.04.2021 | 15.22 | | | |
| | | 11.04.2021 | 27.72 | | | |
| | | 12.04.2021 | 40.22 | | | |
| | | 13.04.2021 | 20.65 | | | |
| | | 14.04.2021 | 14.86 | | | |
| | | 15.04.2021 | 15.04 | | | |
| | | 16.04.2021 | 14.31 | | | |
| | | 17.04.2021 | 11.05 | | | |
| | | 18.04.2021 | 17.75 | | | |
| | | 19.04.2021 | 19.02 | | | |
| | | 20.04.2021 | 21.20 | | | |
| | | 21.04.2021 | 23.55 | | | |
| | | 22.04.2021 | 25.72 | | | |
| | | 23.04.2021 | 23.19 | | | |
| | | 24.04.2021 | 10.14 | | | |
| | | 25.04.2021 | 12.68 | | | |
| | | 26.04.2021 | 28.62 | | | |
| | | 27.04.2021 | 30.07 | | | |
| | | 28.04.2021 | 25.36 | | | |
| | | 29.04.2021 | 26.99 | | | |
| | | 30.04.2021 | 44.93 | | | |
| | | 1.05.2021 | 43.12 | | | |
| | | 2.05.2021 | 33.33 | | | |
| | | Average | 22.74 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 35 Results of The PM_{2.5} Measurement at Location 11

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|-------------------|----------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 11 th Point | PM _{2.5} | 3.04.2021 | 5.98 | - | 50 | 40 |
| | | 4.04.2021 | 8.88 | | | |
| | | 5.04.2021 | 29.17 | | | |
| | | 6.04.2021 | 11.59 | | | |
| | | 7.04.2021 | <3.80 | | | |
| | | 8.04.2021 | 8.15 | | | |
| | | 9.04.2021 | 7.25 | | | |
| | | 10.04.2021 | 5.62 | | | |
| | | 11.04.2021 | 13.22 | | | |
| | | 12.04.2021 | 25.72 | | | |
| | | 13.04.2021 | 11.78 | | | |
| | | 14.04.2021 | 5.62 | | | |
| | | 15.04.2021 | 9.42 | | | |
| | | 16.04.2021 | 5.98 | | | |
| | | 17.04.2021 | 5.80 | | | |
| | | 18.04.2021 | 9.60 | | | |
| | | 19.04.2021 | 11.78 | | | |
| | | 20.04.2021 | 13.22 | | | |
| | | 21.04.2021 | 16.49 | | | |
| | | 22.04.2021 | 15.76 | | | |
| | | 23.04.2021 | 13.41 | | | |
| | | 24.04.2021 | 4.89 | | | |
| | | 25.04.2021 | 7.25 | | | |
| | | 26.04.2021 | 17.93 | | | |
| | | 27.04.2021 | 14.13 | | | |
| | | 28.04.2021 | 9.06 | | | |
| | | 29.04.2021 | 24.28 | | | |
| | | 30.04.2021 | 32.25 | | | |
| | | 1.05.2021 | 19.38 | | | |
| | | 2.05.2021 | 14.49 | | | |
| | | Average | 13.04 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 36 Results of The PM_{2.5} Measurement at Location 12

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 12 th Point | PM _{2.5} | 03.05.2021 | 13.22 | - | 50 | 40 |
| | | 04.05.2021 | 19.2 | | | |
| | | 05.05.2021 | 23.19 | | | |
| | | 06.05.2021 | 27.72 | | | |
| | | 07.05.2021 | 19.75 | | | |
| | | 08.05.2021 | 11.05 | | | |
| | | 09.05.2021 | 10.51 | | | |
| | | 10.05.2021 | 12.5 | | | |
| | | 11.05.2021 | 7.61 | | | |
| | | 12.05.2021 | 15.04 | | | |
| | | 13.05.2021 | 10.87 | | | |
| | | 14.05.2021 | 19.2 | | | |
| | | 15.05.2021 | 11.59 | | | |
| | | 16.05.2021 | 19.75 | | | |
| | | 17.05.2021 | 15.58 | | | |
| | | 18.05.2021 | 17.03 | | | |
| | | 19.05.2021 | 29.35 | | | |
| | | 20.05.2021 | 6.88 | | | |
| | | 21.05.2021 | 7.79 | | | |
| | | 22.05.2021 | 16.12 | | | |
| | | 23.05.2021 | 28.8 | | | |
| | | 24.05.2021 | 13.04 | | | |
| | | 25.05.2021 | 12.5 | | | |
| | | 26.05.2021 | 14.49 | | | |
| | | 27.05.2021 | 16.85 | | | |
| | | 28.05.2021 | 6.7 | | | |
| | | 29.05.2021 | 23.91 | | | |
| | | 30.05.2021 | 33.7 | | | |
| | | 31.05.2021 | 15.22 | | | |
| | | 01.06.2021 | 10.33 | | | |
| | | 02.06.2021 | 15.22 | | | |
| | | Average | 16.28 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 37 Results of The PM_{2.5} Measurement at Location 13

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 13 th Point | PM _{2.5} | 3.05.2021 | 8.88 | - | 50 | 40 |
| | | 4.05.2021 | 12.68 | | | |
| | | 5.05.2021 | 14.31 | | | |
| | | 6.05.2021 | 27.36 | | | |
| | | 7.05.2021 | 17.39 | | | |
| | | 8.05.2021 | 5.43 | | | |
| | | 9.05.2021 | 5.98 | | | |
| | | 10.05.2021 | 9.60 | | | |
| | | 11.05.2021 | 7.25 | | | |
| | | 12.05.2021 | 6.34 | | | |
| | | 13.05.2021 | 7.25 | | | |
| | | 14.05.2021 | 9.24 | | | |
| | | 15.05.2021 | 8.88 | | | |
| | | 16.05.2021 | 14.31 | | | |
| | | 17.05.2021 | 12.86 | | | |
| | | 18.05.2021 | 10.14 | | | |
| | | 19.05.2021 | 25.72 | | | |
| | | 20.05.2021 | 4.17 | | | |
| | | 21.05.2021 | 5.98 | | | |
| | | 22.05.2021 | 12.14 | | | |
| | | 23.05.2021 | 22.28 | | | |
| | | 24.05.2021 | 12.32 | | | |
| | | 25.05.2021 | 12.14 | | | |
| | | 26.05.2021 | 7.61 | | | |
| | | 27.05.2021 | 9.42 | | | |
| | | 28.05.2021 | 7.25 | | | |
| | | 29.05.2021 | 10.69 | | | |
| | | 30.05.2021 | 22.64 | | | |
| | | 31.05.2021 | 13.77 | | | |
| | | 1.06.2021 | 12.50 | | | |
| | | 02.06.2021 | 9.78 | | | |
| | | Average | 11.82 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 38 Results of The PM_{2.5} Measurement at Location 14

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 14 th Point | PM _{2.5} | 3.05.2021 | 14.13 | - | 50 | 40 |
| | | 4.05.2021 | 16.30 | | | |
| | | 5.05.2021 | 21.74 | | | |
| | | 6.05.2021 | 31.88 | | | |
| | | 7.05.2021 | 12.14 | | | |
| | | 8.05.2021 | 6.88 | | | |
| | | 9.05.2021 | 8.70 | | | |
| | | 10.05.2021 | 8.70 | | | |
| | | 11.05.2021 | 4.71 | | | |
| | | 12.05.2021 | 7.61 | | | |
| | | 13.05.2021 | 8.33 | | | |
| | | 14.05.2021 | 10.33 | | | |
| | | 15.05.2021 | 7.97 | | | |
| | | 16.05.2021 | 14.86 | | | |
| | | 17.05.2021 | 12.14 | | | |
| | | 18.05.2021 | 11.96 | | | |
| | | 19.05.2021 | 24.46 | | | |
| | | 20.05.2021 | 5.25 | | | |
| | | 21.05.2021 | 5.80 | | | |
| | | 22.05.2021 | 16.12 | | | |
| | | 23.05.2021 | 21.01 | | | |
| | | 24.05.2021 | 9.96 | | | |
| | | 25.05.2021 | 11.78 | | | |
| | | 26.05.2021 | 6.70 | | | |
| | | 27.05.2021 | 10.87 | | | |
| | | 28.05.2021 | 4.53 | | | |
| | | 29.05.2021 | 17.03 | | | |
| | | 30.05.2021 | 17.93 | | | |
| | | 31.05.2021 | 9.96 | | | |
| | | 1.06.2021 | 11.05 | | | |
| | | 02.06.2021 | 9.24 | | | |
| | | Average | 12.26 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

Table 39 Results of The PM_{2.5} Measurement at Location 15

| Location | Parameter | Sampling Date | Results ($\mu\text{g}/\text{m}^3$) | Limit Values | | |
|------------------------|-------------------|---------------|---|--------------|-----------------|------------------|
| | | | | RCAPO | EU ¹ | WHO ² |
| 15 th Point | PM _{2.5} | 3.05.2021 | 7.61 | - | 50 | 40 |
| | | 4.05.2021 | 10.33 | | | |
| | | 5.05.2021 | 17.21 | | | |
| | | 6.05.2021 | 20.65 | | | |
| | | 7.05.2021 | 14.31 | | | |
| | | 8.05.2021 | 5.98 | | | |
| | | 9.05.2021 | 6.34 | | | |
| | | 10.05.2021 | 8.15 | | | |
| | | 11.05.2021 | 6.34 | | | |
| | | 12.05.2021 | 7.61 | | | |
| | | 13.05.2021 | 10.87 | | | |
| | | 14.05.2021 | 10.51 | | | |
| | | 15.05.2021 | 6.70 | | | |
| | | 16.05.2021 | 8.70 | | | |
| | | 17.05.2021 | 11.23 | | | |
| | | 18.05.2021 | 9.24 | | | |
| | | 19.05.2021 | 19.02 | | | |
| | | 20.05.2021 | 6.34 | | | |
| | | 21.05.2021 | 4.35 | | | |
| | | 22.05.2021 | 14.31 | | | |
| | | 23.05.2021 | 13.22 | | | |
| | | 24.05.2021 | 8.70 | | | |
| | | 25.05.2021 | 11.59 | | | |
| | | 26.05.2021 | 7.25 | | | |
| | | 27.05.2021 | 8.33 | | | |
| | | 28.05.2021 | 5.25 | | | |
| | | 29.05.2021 | 8.33 | | | |
| | | 30.05.2021 | 23.01 | | | |
| | | 31.05.2021 | 12.86 | | | |
| | | 1.06.2021 | 6.34 | | | |
| | | 02.06.2021 | 7.25 | | | |
| | | Average | 10.26 | - | 25 | 10 |

¹Limit Values Stipulated in the “EU Council Directive “2008/50/EC”

²Limit Values Stipulated in the “WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulfur dioxide”

4. ACCREDITATION CERTIFICATE

TÜRK AKREDİTASYON KURUMU

AKREDİTASYON SERTİFİKASI

Deney Laboratuvarı olarak faaliyet gösteren,

**SİGMA ÇEVRE LABORATUVARI ÖLÇÜM VE ANALİZ HİZMETLERİ
TİCARET LTD. ŞTİ.**

BARBAROS MAH. ELMAÇIÇEĞİ SOK. NO:14/A BAŞiskele 41090 KOCAELİ / TÜRKİYE

TÜRKAK tarafından yapılan denetim sonucunda TS EN ISO/IEC 17025:2017 Standardına göre Ek'te yer alan kapsamlarda akredite edilmiştir.

Akreditasyon No : AB-1361-T

Akreditasyon Tarihi : 17 Temmuz 2018

Revizyon Tarihi / No : 19 Nisan 2021 / 02

Bu Sertifika, yukarıda açık adı ve adresi yazılı Kuruluşun TS EN ISO/IEC 17025:2017 Standardına, ilgili Yönetmelik ve Tebliğlere uygunluğunu sürdürmesi halinde, 16 Temmuz 2022 tarihine kadar geçerlidir.

G. Banu MÜDERRİSOĞLU
Genel Sekreter

Türk Akreditasyon Kurumu (TÜRKAK) ISO/IEC 17025 alanında Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile çok taraflı anlaşma (MLA/MRA) imzalamıştır.