

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-1

Highest Hourly TSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust   | Existing YLSTW | Industrial | Ambient Background | Total  |
|-------------|--------------|---------|--------|----------------|------------|--------------------|--------|
| A01         | 1.5          | 0.00    | 298.49 | 0.00           | 38.84      | 79.07              | 416.40 |
| A01         | 5            | 0.00    | 291.97 | 0.00           | 37.61      | 79.07              | 408.66 |
| A02         | 1.5          | 0.05    | 103.25 | 0.02           | 0.21       | 154.54             | 258.07 |
| A02         | 5            | 0.03    | 101.10 | 0.15           | 0.18       | 154.54             | 256.01 |
| A02         | 10           | 0.00    | 2.39   | 1.01           | 0.02       | 206.28             | 209.69 |
| A02         | 15           | 0.00    | 1.87   | 0.85           | 0.01       | 206.28             | 209.01 |
| A03         | 1.5          | 0.30    | 136.05 | 0.00           | 12.36      | 83.81              | 232.52 |
| A03         | 5            | 0.25    | 138.07 | 0.01           | 11.67      | 83.81              | 233.80 |
| A03         | 10           | 0.00    | 0.00   | 0.00           | 5.13       | 206.28             | 211.41 |
| A04         | 1.5          | 0.01    | 0.00   | 0.00           | 0.08       | 206.28             | 206.37 |
| A04         | 5            | 0.01    | 0.00   | 0.00           | 0.07       | 206.28             | 206.36 |
| A04         | 10           | 0.09    | 125.21 | 0.02           | 13.83      | 70.17              | 209.32 |
| A05         | 1.5          | 0.02    | 159.51 | 0.00           | 1.26       | 93.65              | 254.43 |
| A05         | 5            | 0.01    | 156.99 | 0.00           | 1.10       | 93.65              | 251.76 |
| A06         | 1.5          | 0.01    | 1.87   | 0.10           | 0.06       | 206.28             | 208.31 |
| A06         | 5            | 0.01    | 1.88   | 0.08           | 0.06       | 206.28             | 208.31 |
| A06         | 10           | 0.01    | 1.95   | 0.07           | 0.04       | 206.28             | 208.34 |
| A07         | 1.5          | 0.01    | 1.47   | 0.06           | 0.67       | 206.28             | 208.49 |
| A07         | 5            | 0.01    | 1.49   | 0.05           | 0.66       | 206.28             | 208.48 |
| A07         | 10           | 0.01    | 1.54   | 0.04           | 0.60       | 206.28             | 208.46 |
| A08         | 1.5          | 0.02    | 56.68  | 0.59           | 0.14       | 154.54             | 211.98 |
| A08         | 5            | 0.02    | 57.53  | 0.61           | 0.12       | 154.54             | 212.82 |
| A08         | 10           | 0.00    | 0.59   | 0.19           | 0.01       | 206.28             | 207.07 |
| A09         | 1.5          | 0.00    | 357.84 | 0.00           | 1.56       | 44.21              | 403.62 |
| A09         | 5            | 0.01    | 130.04 | 0.00           | 0.23       | 154.54             | 284.83 |
| A09         | 10           | 0.00    | 3.84   | 0.00           | 0.02       | 206.28             | 210.15 |
| A09         | 15           | 0.00    | 2.20   | 0.00           | 0.02       | 206.28             | 208.49 |
| A10         | 1.5          | 0.03    | 175.62 | 0.00           | 4.75       | 51.10              | 231.52 |
| A10         | 5            | 0.03    | 175.06 | 0.00           | 4.71       | 51.10              | 230.91 |
| A11         | 1.5          | 0.01    | 209.12 | 0.00           | 0.88       | 82.86              | 292.87 |
| A11         | 5            | 0.00    | 113.89 | 0.48           | 0.16       | 154.54             | 269.07 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-1

10th Highest Daily RSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.64 | 0.00           | 13.46      | 80.91              | 95.03 |
| A01         | 5            | 0.04    | 9.91 | 0.02           | 10.61      | 75.82              | 96.40 |
| A02         | 1.5          | 0.06    | 0.83 | 0.02           | 2.67       | 82.81              | 86.40 |
| A02         | 5            | 0.03    | 4.40 | 0.15           | 1.85       | 79.03              | 85.46 |
| A02         | 10           | 0.02    | 1.06 | 0.22           | 1.45       | 80.91              | 83.65 |
| A02         | 15           | 0.01    | 0.68 | 0.24           | 0.82       | 80.91              | 82.67 |
| A03         | 1.5          | 0.09    | 0.00 | 0.01           | 3.90       | 82.08              | 86.07 |
| A03         | 5            | 0.06    | 0.00 | 0.01           | 3.63       | 82.08              | 85.77 |
| A03         | 10           | 0.02    | 0.00 | 0.00           | 0.94       | 82.81              | 83.77 |
| A04         | 1.5          | 0.03    | 0.00 | 0.00           | 2.50       | 82.08              | 84.61 |
| A04         | 5            | 0.03    | 0.00 | 0.00           | 2.35       | 82.08              | 84.46 |
| A04         | 10           | 0.02    | 0.51 | 0.01           | 1.10       | 80.91              | 82.55 |
| A05         | 1.5          | 0.00    | 1.03 | 0.00           | 0.36       | 80.91              | 82.31 |
| A05         | 5            | 0.00    | 0.94 | 0.00           | 0.32       | 80.91              | 82.17 |
| A06         | 1.5          | 0.03    | 2.65 | 0.04           | 1.99       | 80.57              | 85.29 |
| A06         | 5            | 0.03    | 2.51 | 0.05           | 1.94       | 80.57              | 85.10 |
| A06         | 10           | 0.02    | 0.72 | 0.14           | 1.37       | 80.91              | 83.16 |
| A07         | 1.5          | 0.03    | 0.31 | 0.01           | 4.16       | 80.91              | 85.43 |
| A07         | 5            | 0.02    | 0.30 | 0.01           | 3.71       | 80.91              | 84.96 |
| A07         | 10           | 0.02    | 0.61 | 0.13           | 1.76       | 80.91              | 83.43 |
| A08         | 1.5          | 0.01    | 0.87 | 0.06           | 2.17       | 80.91              | 84.03 |
| A08         | 5            | 0.01    | 0.84 | 0.07           | 1.98       | 80.91              | 83.81 |
| A08         | 10           | 0.01    | 0.43 | 0.09           | 0.95       | 80.91              | 82.39 |
| A09         | 1.5          | 0.04    | 8.24 | 0.04           | 2.04       | 79.03              | 89.39 |
| A09         | 5            | 0.03    | 1.45 | 0.02           | 2.87       | 82.81              | 87.18 |
| A09         | 10           | 0.01    | 3.20 | 0.16           | 0.35       | 80.57              | 84.28 |
| A09         | 15           | 0.00    | 2.27 | 0.31           | 0.13       | 80.57              | 83.28 |
| A10         | 1.5          | 0.00    | 0.00 | 0.00           | 0.08       | 82.19              | 82.27 |
| A10         | 5            | 0.00    | 0.00 | 0.00           | 0.07       | 82.19              | 82.26 |
| A11         | 1.5          | 0.03    | 2.31 | 0.04           | 1.85       | 82.81              | 87.04 |
| A11         | 5            | 0.01    | 3.59 | 0.21           | 1.06       | 80.91              | 85.79 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-1

Annual RSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.99 | 0.01           | 10.977     | 34.25              | 46.25 |
| A01         | 5            | 0.02    | 0.92 | 0.01           | 10.423     | 34.25              | 45.62 |
| A02         | 1.5          | 0.04    | 2.13 | 0.08           | 1.548      | 34.25              | 38.05 |
| A02         | 5            | 0.03    | 1.74 | 0.09           | 1.527      | 34.25              | 37.64 |
| A02         | 10           | 0.02    | 0.66 | 0.20           | 1.411      | 34.25              | 36.54 |
| A02         | 15           | 0.01    | 0.42 | 0.24           | 1.244      | 34.25              | 36.17 |
| A03         | 1.5          | 0.05    | 0.55 | 0.01           | 2.842      | 34.25              | 37.70 |
| A03         | 5            | 0.03    | 0.52 | 0.01           | 2.753      | 34.25              | 37.57 |
| A03         | 10           | 0.02    | 0.37 | 0.02           | 2.128      | 34.25              | 36.79 |
| A04         | 1.5          | 0.02    | 0.25 | 0.01           | 1.654      | 34.25              | 36.19 |
| A04         | 5            | 0.02    | 0.25 | 0.01           | 1.562      | 34.25              | 36.09 |
| A04         | 10           | 0.01    | 0.21 | 0.01           | 0.848      | 34.25              | 35.33 |
| A05         | 1.5          | 0.01    | 0.39 | 0.01           | 0.707      | 34.25              | 35.36 |
| A05         | 5            | 0.01    | 0.36 | 0.01           | 0.657      | 34.25              | 35.29 |
| A06         | 1.5          | 0.03    | 0.68 | 0.03           | 2.829      | 34.25              | 37.82 |
| A06         | 5            | 0.03    | 0.65 | 0.03           | 2.603      | 34.25              | 37.56 |
| A06         | 10           | 0.02    | 0.38 | 0.05           | 1.510      | 34.25              | 36.22 |
| A07         | 1.5          | 0.03    | 0.56 | 0.02           | 2.217      | 34.25              | 37.08 |
| A07         | 5            | 0.02    | 0.54 | 0.03           | 2.052      | 34.25              | 36.89 |
| A07         | 10           | 0.02    | 0.34 | 0.04           | 1.189      | 34.25              | 35.84 |
| A08         | 1.5          | 0.01    | 0.62 | 0.03           | 1.552      | 34.25              | 36.46 |
| A08         | 5            | 0.01    | 0.59 | 0.03           | 1.441      | 34.25              | 36.33 |
| A08         | 10           | 0.01    | 0.34 | 0.06           | 0.970      | 34.25              | 35.63 |
| A09         | 1.5          | 0.03    | 4.44 | 0.07           | 1.847      | 34.25              | 40.65 |
| A09         | 5            | 0.03    | 3.01 | 0.07           | 1.789      | 34.25              | 39.15 |
| A09         | 10           | 0.02    | 1.21 | 0.13           | 1.602      | 34.25              | 37.21 |
| A09         | 15           | 0.01    | 0.84 | 0.19           | 1.387      | 34.25              | 36.68 |
| A10         | 1.5          | 0.00    | 0.84 | 0.01           | 0.399      | 34.47              | 35.73 |
| A10         | 5            | 0.00    | 0.81 | 0.02           | 0.384      | 34.47              | 35.68 |
| A11         | 1.5          | 0.02    | 2.85 | 0.08           | 1.349      | 34.25              | 38.56 |
| A11         | 5            | 0.02    | 2.18 | 0.09           | 1.310      | 34.25              | 37.86 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-1

10th Highest Daily FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.96 | 0.04           | 4.58       | 60.34              | 65.93 |
| A01         | 5            | 0.02    | 0.01 | 0.03           | 4.17       | 61.56              | 65.77 |
| A02         | 1.5          | 0.03    | 0.51 | 0.20           | 0.32       | 60.68              | 61.75 |
| A02         | 5            | 0.03    | 0.40 | 0.20           | 0.43       | 60.68              | 61.74 |
| A02         | 10           | 0.00    | 0.41 | 0.56           | 0.09       | 60.43              | 61.50 |
| A02         | 15           | 0.00    | 0.04 | 0.93           | 0.03       | 60.34              | 61.35 |
| A03         | 1.5          | 0.06    | 0.00 | 0.00           | 0.40       | 62.11              | 62.56 |
| A03         | 5            | 0.06    | 0.00 | 0.01           | 0.84       | 61.56              | 62.47 |
| A03         | 10           | 0.01    | 0.06 | 0.00           | 1.34       | 60.68              | 62.10 |
| A04         | 1.5          | 0.03    | 0.08 | 0.01           | 0.42       | 60.68              | 61.22 |
| A04         | 5            | 0.03    | 0.08 | 0.01           | 0.41       | 60.68              | 61.21 |
| A04         | 10           | 0.02    | 0.08 | 0.01           | 0.30       | 60.68              | 61.09 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00           | 0.05       | 60.68              | 60.74 |
| A05         | 5            | 0.00    | 0.00 | 0.00           | 0.04       | 60.68              | 60.73 |
| A06         | 1.5          | 0.02    | 0.23 | 0.07           | 0.69       | 60.68              | 61.70 |
| A06         | 5            | 0.02    | 0.21 | 0.07           | 0.67       | 60.68              | 61.66 |
| A06         | 10           | 0.02    | 0.22 | 0.14           | 0.61       | 60.43              | 61.43 |
| A07         | 1.5          | 0.03    | 0.19 | 0.07           | 0.82       | 60.68              | 61.78 |
| A07         | 5            | 0.02    | 0.17 | 0.07           | 0.80       | 60.68              | 61.74 |
| A07         | 10           | 0.02    | 0.10 | 0.13           | 0.64       | 60.68              | 61.57 |
| A08         | 1.5          | 0.01    | 0.19 | 0.06           | 0.54       | 60.68              | 61.49 |
| A08         | 5            | 0.01    | 0.17 | 0.07           | 0.52       | 60.68              | 61.45 |
| A08         | 10           | 0.00    | 0.39 | 0.20           | 0.14       | 60.43              | 61.16 |
| A09         | 1.5          | 0.01    | 1.80 | 0.02           | 0.13       | 60.68              | 62.65 |
| A09         | 5            | 0.01    | 1.21 | 0.03           | 0.13       | 60.68              | 62.06 |
| A09         | 10           | 0.00    | 0.53 | 0.08           | 0.08       | 60.68              | 61.38 |
| A09         | 15           | 0.00    | 0.17 | 0.12           | 0.31       | 60.68              | 61.29 |
| A10         | 1.5          | 0.00    | 0.27 | 0.00           | 0.15       | 60.88              | 61.31 |
| A10         | 5            | 0.00    | 0.24 | 0.00           | 0.15       | 60.88              | 61.27 |
| A11         | 1.5          | 0.01    | 0.95 | 0.20           | 0.29       | 60.68              | 62.13 |
| A11         | 5            | 0.01    | 0.63 | 0.21           | 0.28       | 60.68              | 61.83 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-1

Annual FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.17 | 0.01           | 4.71       | 24.32              | 29.23 |
| A01         | 5            | 0.02    | 0.15 | 0.01           | 4.45       | 24.32              | 28.95 |
| A02         | 1.5          | 0.03    | 0.38 | 0.08           | 0.48       | 24.32              | 25.30 |
| A02         | 5            | 0.03    | 0.30 | 0.09           | 0.48       | 24.32              | 25.22 |
| A02         | 10           | 0.02    | 0.10 | 0.20           | 0.45       | 24.32              | 25.09 |
| A02         | 15           | 0.01    | 0.06 | 0.24           | 0.44       | 24.32              | 25.07 |
| A03         | 1.5          | 0.04    | 0.10 | 0.01           | 0.84       | 24.32              | 25.31 |
| A03         | 5            | 0.03    | 0.09 | 0.01           | 0.79       | 24.32              | 25.25 |
| A03         | 10           | 0.02    | 0.06 | 0.02           | 0.65       | 24.32              | 25.07 |
| A04         | 1.5          | 0.02    | 0.05 | 0.01           | 0.35       | 24.32              | 24.74 |
| A04         | 5            | 0.02    | 0.04 | 0.01           | 0.32       | 24.32              | 24.71 |
| A04         | 10           | 0.01    | 0.04 | 0.01           | 0.23       | 24.32              | 24.62 |
| A05         | 1.5          | 0.01    | 0.07 | 0.01           | 0.23       | 24.32              | 24.63 |
| A05         | 5            | 0.01    | 0.06 | 0.01           | 0.21       | 24.32              | 24.61 |
| A06         | 1.5          | 0.03    | 0.13 | 0.03           | 0.64       | 24.32              | 25.14 |
| A06         | 5            | 0.02    | 0.12 | 0.03           | 0.62       | 24.32              | 25.11 |
| A06         | 10           | 0.02    | 0.06 | 0.05           | 0.52       | 24.32              | 24.97 |
| A07         | 1.5          | 0.03    | 0.11 | 0.02           | 0.45       | 24.32              | 24.93 |
| A07         | 5            | 0.02    | 0.10 | 0.03           | 0.44       | 24.32              | 24.90 |
| A07         | 10           | 0.02    | 0.06 | 0.04           | 0.36       | 24.32              | 24.79 |
| A08         | 1.5          | 0.01    | 0.12 | 0.03           | 0.41       | 24.32              | 24.89 |
| A08         | 5            | 0.01    | 0.11 | 0.03           | 0.39       | 24.32              | 24.87 |
| A08         | 10           | 0.01    | 0.06 | 0.06           | 0.32       | 24.32              | 24.76 |
| A09         | 1.5          | 0.03    | 0.75 | 0.07           | 0.50       | 24.32              | 25.68 |
| A09         | 5            | 0.03    | 0.49 | 0.07           | 0.48       | 24.32              | 25.40 |
| A09         | 10           | 0.02    | 0.19 | 0.13           | 0.44       | 24.32              | 25.09 |
| A09         | 15           | 0.01    | 0.13 | 0.19           | 0.39       | 24.32              | 25.04 |
| A10         | 1.5          | 0.00    | 0.15 | 0.01           | 0.11       | 24.48              | 24.75 |
| A10         | 5            | 0.00    | 0.14 | 0.02           | 0.10       | 24.48              | 24.74 |
| A11         | 1.5          | 0.02    | 0.51 | 0.08           | 0.39       | 24.32              | 25.32 |
| A11         | 5            | 0.02    | 0.37 | 0.09           | 0.38       | 24.32              | 25.18 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-2

Highest Hourly TSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust   | Existing YLSTW | Industrial | Ambient Background | Total  |
|-------------|--------------|---------|--------|----------------|------------|--------------------|--------|
| A01         | 1.5          | 0.00    | 0.00   | 0.00           | 94.25      | 144.05             | 238.30 |
| A01         | 5            | 0.00    | 0.00   | 0.00           | 243.64     | 76.71              | 320.36 |
| A02         | 1.5          | 0.04    | 203.96 | 0.00           | 0.95       | 73.43              | 278.37 |
| A02         | 5            | 0.01    | 147.41 | 0.01           | 0.40       | 76.91              | 224.74 |
| A02         | 10           | 0.00    | 1.21   | 1.01           | 0.02       | 206.28             | 208.51 |
| A02         | 15           | 0.00    | 0.69   | 0.85           | 0.01       | 206.28             | 207.83 |
| A03         | 1.5          | 0.01    | 0.00   | 0.00           | 5.93       | 206.28             | 212.22 |
| A03         | 5            | 0.01    | 0.00   | 0.00           | 5.72       | 206.28             | 212.01 |
| A03         | 10           | 0.00    | 0.00   | 0.00           | 5.13       | 206.28             | 211.41 |
| A04         | 1.5          | 0.01    | 0.00   | 0.00           | 0.08       | 206.28             | 206.37 |
| A04         | 5            | 0.01    | 0.00   | 0.00           | 0.07       | 206.28             | 206.36 |
| A04         | 10           | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A05         | 1.5          | 0.00    | 0.00   | 0.00           | 0.04       | 206.28             | 206.32 |
| A05         | 5            | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A06         | 1.5          | 0.01    | 0.03   | 0.10           | 0.06       | 206.28             | 206.48 |
| A06         | 5            | 0.01    | 0.03   | 0.08           | 0.06       | 206.28             | 206.45 |
| A06         | 10           | 0.01    | 0.02   | 0.07           | 0.04       | 206.28             | 206.40 |
| A07         | 1.5          | 0.01    | 0.01   | 0.06           | 0.67       | 206.28             | 207.03 |
| A07         | 5            | 0.01    | 0.01   | 0.05           | 0.66       | 206.28             | 207.00 |
| A07         | 10           | 0.01    | 0.00   | 0.04           | 0.60       | 206.28             | 206.92 |
| A08         | 1.5          | 0.00    | 1.10   | 0.20           | 0.02       | 206.28             | 207.61 |
| A08         | 5            | 0.00    | 1.11   | 0.20           | 0.02       | 206.28             | 207.61 |
| A08         | 10           | 0.00    | 1.20   | 0.19           | 0.01       | 206.28             | 207.68 |
| A09         | 1.5          | 0.00    | 160.37 | 0.00           | 1.85       | 83.81              | 246.02 |
| A09         | 5            | 0.00    | 152.36 | 0.02           | 1.63       | 83.81              | 237.82 |
| A09         | 10           | 0.00    | 0.00   | 0.00           | 0.02       | 206.28             | 206.30 |
| A09         | 15           | 0.00    | 0.00   | 0.00           | 0.02       | 206.28             | 206.30 |
| A10         | 1.5          | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A10         | 5            | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A11         | 1.5          | 0.00    | 296.59 | 0.00           | 0.81       | 73.43              | 370.82 |
| A11         | 5            | 0.00    | 157.95 | 0.00           | 0.71       | 73.43              | 232.08 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-2

10th Highest Daily RSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.00 | 0.00           | 29.85      | 64.21              | 94.08 |
| A01         | 5            | 0.01    | 0.00 | 0.00           | 11.54      | 80.91              | 92.46 |
| A02         | 1.5          | 0.02    | 3.40 | 0.29           | 0.54       | 80.57              | 84.81 |
| A02         | 5            | 0.01    | 2.47 | 0.29           | 0.50       | 80.57              | 83.84 |
| A02         | 10           | 0.00    | 1.41 | 0.30           | 0.14       | 80.91              | 82.76 |
| A02         | 15           | 0.01    | 0.43 | 0.24           | 0.82       | 80.91              | 82.41 |
| A03         | 1.5          | 0.05    | 0.00 | 0.00           | 4.53       | 80.91              | 85.49 |
| A03         | 5            | 0.06    | 2.14 | 0.02           | 6.96       | 75.82              | 85.01 |
| A03         | 10           | 0.02    | 0.00 | 0.00           | 0.94       | 82.81              | 83.77 |
| A04         | 1.5          | 0.03    | 0.00 | 0.00           | 0.70       | 82.81              | 83.54 |
| A04         | 5            | 0.02    | 0.00 | 0.00           | 0.65       | 82.81              | 83.48 |
| A04         | 10           | 0.02    | 0.08 | 0.01           | 1.10       | 80.91              | 82.12 |
| A05         | 1.5          | 0.02    | 0.60 | 0.02           | 3.24       | 77.49              | 81.37 |
| A05         | 5            | 0.02    | 0.58 | 0.06           | 3.07       | 77.49              | 81.22 |
| A06         | 1.5          | 0.03    | 1.14 | 0.07           | 2.91       | 80.91              | 85.06 |
| A06         | 5            | 0.02    | 1.08 | 0.07           | 2.69       | 80.91              | 84.78 |
| A06         | 10           | 0.02    | 0.08 | 0.02           | 1.36       | 80.91              | 82.40 |
| A07         | 1.5          | 0.08    | 0.00 | 0.00           | 2.60       | 82.08              | 84.77 |
| A07         | 5            | 0.06    | 0.00 | 0.00           | 2.42       | 82.08              | 84.56 |
| A07         | 10           | 0.02    | 0.13 | 0.11           | 2.24       | 80.57              | 83.07 |
| A08         | 1.5          | 0.01    | 1.34 | 0.07           | 0.49       | 80.57              | 82.48 |
| A08         | 5            | 0.01    | 1.27 | 0.08           | 0.43       | 80.57              | 82.36 |
| A08         | 10           | 0.01    | 0.69 | 0.20           | 0.22       | 80.57              | 81.68 |
| A09         | 1.5          | 0.00    | 4.30 | 0.33           | 0.43       | 80.45              | 85.52 |
| A09         | 5            | 0.01    | 2.47 | 0.03           | 0.88       | 80.91              | 84.30 |
| A09         | 10           | 0.01    | 1.14 | 0.12           | 1.09       | 80.91              | 83.28 |
| A09         | 15           | 0.00    | 1.06 | 0.12           | 0.99       | 80.91              | 83.09 |
| A10         | 1.5          | 0.00    | 0.00 | 0.00           | 0.45       | 81.18              | 81.63 |
| A10         | 5            | 0.00    | 0.00 | 0.00           | 0.44       | 81.18              | 81.62 |
| A11         | 1.5          | 0.02    | 5.54 | 0.12           | 1.97       | 79.03              | 86.68 |
| A11         | 5            | 0.02    | 0.47 | 0.04           | 1.81       | 82.81              | 85.16 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-2

Annual RSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.15 | 0.01           | 10.977     | 34.25              | 45.42 |
| A01         | 5            | 0.02    | 0.15 | 0.01           | 10.423     | 34.25              | 44.85 |
| A02         | 1.5          | 0.04    | 1.13 | 0.08           | 1.548      | 34.25              | 37.05 |
| A02         | 5            | 0.03    | 0.89 | 0.09           | 1.527      | 34.25              | 36.79 |
| A02         | 10           | 0.02    | 0.40 | 0.20           | 1.411      | 34.25              | 36.28 |
| A02         | 15           | 0.01    | 0.27 | 0.24           | 1.244      | 34.25              | 36.02 |
| A03         | 1.5          | 0.05    | 0.13 | 0.01           | 2.842      | 34.25              | 37.28 |
| A03         | 5            | 0.03    | 0.13 | 0.01           | 2.753      | 34.25              | 37.18 |
| A03         | 10           | 0.02    | 0.09 | 0.02           | 2.128      | 34.25              | 36.51 |
| A04         | 1.5          | 0.02    | 0.07 | 0.01           | 1.654      | 34.25              | 36.01 |
| A04         | 5            | 0.02    | 0.07 | 0.01           | 1.562      | 34.25              | 35.91 |
| A04         | 10           | 0.01    | 0.05 | 0.01           | 0.848      | 34.25              | 35.18 |
| A05         | 1.5          | 0.01    | 0.07 | 0.01           | 0.707      | 34.25              | 35.05 |
| A05         | 5            | 0.01    | 0.07 | 0.01           | 0.657      | 34.25              | 34.99 |
| A06         | 1.5          | 0.03    | 0.25 | 0.03           | 2.829      | 34.25              | 37.39 |
| A06         | 5            | 0.03    | 0.24 | 0.03           | 2.603      | 34.25              | 37.15 |
| A06         | 10           | 0.02    | 0.13 | 0.05           | 1.510      | 34.25              | 35.97 |
| A07         | 1.5          | 0.03    | 0.20 | 0.02           | 2.217      | 34.25              | 36.73 |
| A07         | 5            | 0.02    | 0.19 | 0.03           | 2.052      | 34.25              | 36.55 |
| A07         | 10           | 0.02    | 0.11 | 0.04           | 1.189      | 34.25              | 35.62 |
| A08         | 1.5          | 0.01    | 0.31 | 0.03           | 1.552      | 34.25              | 36.15 |
| A08         | 5            | 0.01    | 0.29 | 0.03           | 1.441      | 34.25              | 36.03 |
| A08         | 10           | 0.01    | 0.17 | 0.06           | 0.970      | 34.25              | 35.46 |
| A09         | 1.5          | 0.03    | 0.80 | 0.07           | 1.847      | 34.25              | 37.00 |
| A09         | 5            | 0.03    | 0.68 | 0.07           | 1.789      | 34.25              | 36.82 |
| A09         | 10           | 0.02    | 0.39 | 0.13           | 1.602      | 34.25              | 36.39 |
| A09         | 15           | 0.01    | 0.26 | 0.19           | 1.387      | 34.25              | 36.10 |
| A10         | 1.5          | 0.00    | 0.28 | 0.01           | 0.399      | 34.47              | 35.17 |
| A10         | 5            | 0.00    | 0.26 | 0.02           | 0.384      | 34.47              | 35.14 |
| A11         | 1.5          | 0.02    | 2.16 | 0.08           | 1.349      | 34.25              | 37.87 |
| A11         | 5            | 0.02    | 1.48 | 0.09           | 1.310      | 34.25              | 37.16 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-2

10th Highest Daily FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.03 | 0.01           | 4.32       | 60.68              | 65.06 |
| A01         | 5            | 0.01    | 0.00 | 0.00           | 5.02       | 60.68              | 65.71 |
| A02         | 1.5          | 0.01    | 0.61 | 0.29           | 0.11       | 60.43              | 61.45 |
| A02         | 5            | 0.03    | 0.09 | 0.20           | 0.43       | 60.68              | 61.43 |
| A02         | 10           | 0.00    | 0.22 | 0.30           | 0.05       | 60.68              | 61.26 |
| A02         | 15           | 0.00    | 0.02 | 0.93           | 0.03       | 60.34              | 61.32 |
| A03         | 1.5          | 0.05    | 0.00 | 0.00           | 1.71       | 60.68              | 62.45 |
| A03         | 5            | 0.03    | 0.00 | 0.00           | 1.59       | 60.68              | 62.30 |
| A03         | 10           | 0.02    | 0.00 | 0.01           | 0.44       | 61.56              | 62.03 |
| A04         | 1.5          | 0.03    | 0.01 | 0.01           | 0.42       | 60.68              | 61.15 |
| A04         | 5            | 0.03    | 0.01 | 0.01           | 0.41       | 60.68              | 61.14 |
| A04         | 10           | 0.02    | 0.01 | 0.01           | 0.30       | 60.68              | 61.02 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00           | 0.05       | 60.68              | 60.74 |
| A05         | 5            | 0.00    | 0.00 | 0.00           | 0.04       | 60.68              | 60.73 |
| A06         | 1.5          | 0.03    | 0.01 | 0.02           | 0.80       | 60.68              | 61.55 |
| A06         | 5            | 0.02    | 0.01 | 0.02           | 0.73       | 60.68              | 61.47 |
| A06         | 10           | 0.02    | 0.03 | 0.14           | 0.61       | 60.43              | 61.24 |
| A07         | 1.5          | 0.03    | 0.07 | 0.03           | 1.07       | 60.43              | 61.63 |
| A07         | 5            | 0.03    | 0.06 | 0.04           | 1.04       | 60.43              | 61.60 |
| A07         | 10           | 0.02    | 0.02 | 0.11           | 0.87       | 60.43              | 61.46 |
| A08         | 1.5          | 0.01    | 0.08 | 0.08           | 0.24       | 60.68              | 61.09 |
| A08         | 5            | 0.00    | 0.08 | 0.10           | 0.22       | 60.68              | 61.09 |
| A08         | 10           | 0.00    | 0.05 | 0.18           | 0.15       | 60.68              | 61.06 |
| A09         | 1.5          | 0.00    | 0.72 | 0.33           | 0.12       | 60.34              | 61.51 |
| A09         | 5            | 0.01    | 0.19 | 0.13           | 0.41       | 60.68              | 61.43 |
| A09         | 10           | 0.01    | 0.18 | 0.12           | 0.35       | 60.68              | 61.35 |
| A09         | 15           | 0.00    | 0.17 | 0.12           | 0.31       | 60.68              | 61.29 |
| A10         | 1.5          | 0.00    | 0.00 | 0.00           | 0.15       | 60.88              | 61.04 |
| A10         | 5            | 0.00    | 0.00 | 0.00           | 0.15       | 60.88              | 61.04 |
| A11         | 1.5          | 0.01    | 0.88 | 0.25           | 0.07       | 60.68              | 61.89 |
| A11         | 5            | 0.00    | 0.90 | 0.19           | 0.09       | 60.43              | 61.63 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-2

Annual FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.03 | 0.01           | 4.71       | 24.32              | 29.08 |
| A01         | 5            | 0.02    | 0.03 | 0.01           | 4.45       | 24.32              | 28.83 |
| A02         | 1.5          | 0.03    | 0.20 | 0.08           | 0.48       | 24.32              | 25.11 |
| A02         | 5            | 0.03    | 0.15 | 0.09           | 0.48       | 24.32              | 25.07 |
| A02         | 10           | 0.02    | 0.06 | 0.20           | 0.45       | 24.32              | 25.05 |
| A02         | 15           | 0.01    | 0.04 | 0.24           | 0.44       | 24.32              | 25.05 |
| A03         | 1.5          | 0.04    | 0.02 | 0.01           | 0.84       | 24.32              | 25.24 |
| A03         | 5            | 0.03    | 0.02 | 0.01           | 0.79       | 24.32              | 25.18 |
| A03         | 10           | 0.02    | 0.02 | 0.02           | 0.65       | 24.32              | 25.03 |
| A04         | 1.5          | 0.02    | 0.01 | 0.01           | 0.35       | 24.32              | 24.71 |
| A04         | 5            | 0.02    | 0.01 | 0.01           | 0.32       | 24.32              | 24.68 |
| A04         | 10           | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.59 |
| A05         | 1.5          | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.58 |
| A05         | 5            | 0.01    | 0.01 | 0.01           | 0.21       | 24.32              | 24.56 |
| A06         | 1.5          | 0.03    | 0.05 | 0.03           | 0.64       | 24.32              | 25.06 |
| A06         | 5            | 0.02    | 0.04 | 0.03           | 0.62       | 24.32              | 25.04 |
| A06         | 10           | 0.02    | 0.02 | 0.05           | 0.52       | 24.32              | 24.93 |
| A07         | 1.5          | 0.03    | 0.04 | 0.02           | 0.45       | 24.32              | 24.86 |
| A07         | 5            | 0.02    | 0.03 | 0.03           | 0.44       | 24.32              | 24.84 |
| A07         | 10           | 0.02    | 0.02 | 0.04           | 0.36       | 24.32              | 24.76 |
| A08         | 1.5          | 0.01    | 0.06 | 0.03           | 0.41       | 24.32              | 24.83 |
| A08         | 5            | 0.01    | 0.05 | 0.03           | 0.39       | 24.32              | 24.81 |
| A08         | 10           | 0.01    | 0.03 | 0.06           | 0.32       | 24.32              | 24.73 |
| A09         | 1.5          | 0.03    | 0.14 | 0.07           | 0.50       | 24.32              | 25.06 |
| A09         | 5            | 0.03    | 0.11 | 0.07           | 0.48       | 24.32              | 25.01 |
| A09         | 10           | 0.02    | 0.06 | 0.13           | 0.44       | 24.32              | 24.97 |
| A09         | 15           | 0.01    | 0.04 | 0.19           | 0.39       | 24.32              | 24.96 |
| A10         | 1.5          | 0.00    | 0.05 | 0.01           | 0.11       | 24.48              | 24.65 |
| A10         | 5            | 0.00    | 0.05 | 0.02           | 0.10       | 24.48              | 24.64 |
| A11         | 1.5          | 0.02    | 0.36 | 0.08           | 0.39       | 24.32              | 25.18 |
| A11         | 5            | 0.02    | 0.24 | 0.09           | 0.38       | 24.32              | 25.05 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-3

Highest Hourly TSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust   | Existing YLSTW | Industrial | Ambient Background | Total  |
|-------------|--------------|---------|--------|----------------|------------|--------------------|--------|
| A01         | 1.5          | 0.00    | 0.00   | 0.00           | 94.25      | 144.05             | 238.30 |
| A01         | 5            | 0.00    | 0.00   | 0.00           | 243.64     | 76.71              | 320.36 |
| A02         | 1.5          | 0.05    | 79.31  | 0.02           | 0.21       | 154.54             | 234.13 |
| A02         | 5            | 0.03    | 74.15  | 0.15           | 0.18       | 154.54             | 229.06 |
| A02         | 10           | 0.00    | 1.15   | 1.01           | 0.02       | 206.28             | 208.45 |
| A02         | 15           | 0.00    | 0.75   | 0.85           | 0.01       | 206.28             | 207.89 |
| A03         | 1.5          | 0.01    | 0.00   | 0.00           | 5.93       | 206.28             | 212.22 |
| A03         | 5            | 0.01    | 0.00   | 0.00           | 5.72       | 206.28             | 212.01 |
| A03         | 10           | 0.00    | 0.00   | 0.00           | 5.13       | 206.28             | 211.41 |
| A04         | 1.5          | 0.01    | 0.00   | 0.00           | 0.08       | 206.28             | 206.37 |
| A04         | 5            | 0.01    | 0.00   | 0.00           | 0.07       | 206.28             | 206.36 |
| A04         | 10           | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A05         | 1.5          | 0.00    | 0.00   | 0.00           | 0.04       | 206.28             | 206.32 |
| A05         | 5            | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A06         | 1.5          | 0.01    | 0.48   | 0.10           | 0.06       | 206.28             | 206.92 |
| A06         | 5            | 0.01    | 0.48   | 0.08           | 0.06       | 206.28             | 206.91 |
| A06         | 10           | 0.01    | 0.46   | 0.07           | 0.04       | 206.28             | 206.85 |
| A07         | 1.5          | 0.01    | 0.25   | 0.06           | 0.67       | 206.28             | 207.27 |
| A07         | 5            | 0.01    | 0.25   | 0.05           | 0.66       | 206.28             | 207.24 |
| A07         | 10           | 0.01    | 0.22   | 0.04           | 0.60       | 206.28             | 207.13 |
| A08         | 1.5          | 0.00    | 0.18   | 0.20           | 0.02       | 206.28             | 206.68 |
| A08         | 5            | 0.00    | 0.18   | 0.20           | 0.02       | 206.28             | 206.68 |
| A08         | 10           | 0.00    | 0.14   | 0.19           | 0.01       | 206.28             | 206.62 |
| A09         | 1.5          | 0.00    | 319.67 | 0.00           | 1.12       | 73.43              | 394.22 |
| A09         | 5            | 0.00    | 132.35 | 0.00           | 0.47       | 76.91              | 209.72 |
| A09         | 10           | 0.00    | 1.79   | 0.00           | 0.02       | 206.28             | 208.10 |
| A09         | 15           | 0.00    | 0.59   | 0.00           | 0.02       | 206.28             | 206.88 |
| A10         | 1.5          | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A10         | 5            | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A11         | 1.5          | 0.01    | 174.58 | 0.00           | 0.88       | 82.86              | 258.33 |
| A11         | 5            | 0.00    | 59.57  | 0.48           | 0.16       | 154.54             | 214.75 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-3

10th Highest Daily RSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.00 | 0.00           | 29.85      | 64.21              | 94.08 |
| A01         | 5            | 0.01    | 0.00 | 0.00           | 11.54      | 80.91              | 92.46 |
| A02         | 1.5          | 0.04    | 3.46 | 0.10           | 1.93       | 79.03              | 84.57 |
| A02         | 5            | 0.03    | 2.60 | 0.15           | 1.85       | 79.03              | 83.66 |
| A02         | 10           | 0.00    | 0.96 | 0.56           | 0.65       | 80.57              | 82.74 |
| A02         | 15           | 0.01    | 0.20 | 0.24           | 0.82       | 80.91              | 82.19 |
| A03         | 1.5          | 0.05    | 0.00 | 0.00           | 4.53       | 80.91              | 85.49 |
| A03         | 5            | 0.05    | 0.72 | 0.03           | 3.87       | 80.45              | 85.13 |
| A03         | 10           | 0.02    | 0.00 | 0.00           | 0.94       | 82.81              | 83.77 |
| A04         | 1.5          | 0.03    | 0.00 | 0.00           | 0.70       | 82.81              | 83.54 |
| A04         | 5            | 0.02    | 0.00 | 0.00           | 0.65       | 82.81              | 83.48 |
| A04         | 10           | 0.02    | 0.13 | 0.01           | 1.10       | 80.91              | 82.17 |
| A05         | 1.5          | 0.00    | 0.14 | 0.00           | 0.36       | 80.91              | 81.42 |
| A05         | 5            | 0.02    | 0.68 | 0.06           | 3.07       | 77.49              | 81.31 |
| A06         | 1.5          | 0.03    | 0.40 | 0.07           | 2.91       | 80.91              | 84.32 |
| A06         | 5            | 0.02    | 0.38 | 0.07           | 2.69       | 80.91              | 84.08 |
| A06         | 10           | 0.02    | 0.33 | 0.14           | 1.41       | 80.57              | 82.48 |
| A07         | 1.5          | 0.03    | 0.40 | 0.07           | 3.12       | 80.91              | 84.52 |
| A07         | 5            | 0.02    | 0.38 | 0.07           | 2.93       | 80.91              | 84.31 |
| A07         | 10           | 0.02    | 0.22 | 0.13           | 1.76       | 80.91              | 83.04 |
| A08         | 1.5          | 0.01    | 0.55 | 0.08           | 0.72       | 80.91              | 82.26 |
| A08         | 5            | 0.01    | 0.52 | 0.10           | 0.64       | 80.91              | 82.17 |
| A08         | 10           | 0.00    | 0.29 | 0.18           | 0.28       | 80.91              | 81.66 |
| A09         | 1.5          | 0.04    | 0.46 | 0.02           | 2.95       | 82.81              | 86.27 |
| A09         | 5            | 0.01    | 3.71 | 0.12           | 0.79       | 80.57              | 85.21 |
| A09         | 10           | 0.01    | 0.87 | 0.12           | 1.09       | 80.91              | 83.01 |
| A09         | 15           | 0.00    | 1.11 | 0.04           | 0.24       | 80.91              | 82.30 |
| A10         | 1.5          | 0.00    | 0.08 | 0.00           | 0.45       | 81.18              | 81.71 |
| A10         | 5            | 0.00    | 0.08 | 0.00           | 0.44       | 81.18              | 81.69 |
| A11         | 1.5          | 0.02    | 2.08 | 0.20           | 1.09       | 80.91              | 84.29 |
| A11         | 5            | 0.01    | 1.40 | 0.21           | 1.06       | 80.91              | 83.60 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-3

Annual RSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.20 | 0.01           | 10.977     | 34.25              | 45.47 |
| A01         | 5            | 0.02    | 0.19 | 0.01           | 10.423     | 34.25              | 44.90 |
| A02         | 1.5          | 0.04    | 0.91 | 0.08           | 1.548      | 34.25              | 36.83 |
| A02         | 5            | 0.03    | 0.69 | 0.09           | 1.527      | 34.25              | 36.59 |
| A02         | 10           | 0.02    | 0.26 | 0.20           | 1.411      | 34.25              | 36.14 |
| A02         | 15           | 0.01    | 0.17 | 0.24           | 1.244      | 34.25              | 35.92 |
| A03         | 1.5          | 0.05    | 0.14 | 0.01           | 2.842      | 34.25              | 37.29 |
| A03         | 5            | 0.03    | 0.13 | 0.01           | 2.753      | 34.25              | 37.19 |
| A03         | 10           | 0.02    | 0.10 | 0.02           | 2.128      | 34.25              | 36.52 |
| A04         | 1.5          | 0.02    | 0.07 | 0.01           | 1.654      | 34.25              | 36.00 |
| A04         | 5            | 0.02    | 0.06 | 0.01           | 1.562      | 34.25              | 35.91 |
| A04         | 10           | 0.01    | 0.05 | 0.01           | 0.848      | 34.25              | 35.18 |
| A05         | 1.5          | 0.01    | 0.08 | 0.01           | 0.707      | 34.25              | 35.05 |
| A05         | 5            | 0.01    | 0.07 | 0.01           | 0.657      | 34.25              | 35.00 |
| A06         | 1.5          | 0.03    | 0.22 | 0.03           | 2.829      | 34.25              | 37.36 |
| A06         | 5            | 0.03    | 0.21 | 0.03           | 2.603      | 34.25              | 37.12 |
| A06         | 10           | 0.02    | 0.12 | 0.05           | 1.510      | 34.25              | 35.96 |
| A07         | 1.5          | 0.03    | 0.18 | 0.02           | 2.217      | 34.25              | 36.70 |
| A07         | 5            | 0.02    | 0.17 | 0.03           | 2.052      | 34.25              | 36.52 |
| A07         | 10           | 0.02    | 0.10 | 0.04           | 1.189      | 34.25              | 35.61 |
| A08         | 1.5          | 0.01    | 0.21 | 0.03           | 1.552      | 34.25              | 36.06 |
| A08         | 5            | 0.01    | 0.20 | 0.03           | 1.441      | 34.25              | 35.94 |
| A08         | 10           | 0.01    | 0.11 | 0.06           | 0.970      | 34.25              | 35.40 |
| A09         | 1.5          | 0.03    | 2.02 | 0.07           | 1.847      | 34.25              | 38.23 |
| A09         | 5            | 0.03    | 1.28 | 0.07           | 1.789      | 34.25              | 37.42 |
| A09         | 10           | 0.02    | 0.58 | 0.13           | 1.602      | 34.25              | 36.58 |
| A09         | 15           | 0.01    | 0.38 | 0.19           | 1.387      | 34.25              | 36.23 |
| A10         | 1.5          | 0.00    | 0.17 | 0.01           | 0.399      | 34.47              | 35.05 |
| A10         | 5            | 0.00    | 0.16 | 0.02           | 0.384      | 34.47              | 35.03 |
| A11         | 1.5          | 0.02    | 1.31 | 0.08           | 1.349      | 34.25              | 37.02 |
| A11         | 5            | 0.02    | 0.87 | 0.09           | 1.310      | 34.25              | 36.55 |



Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-3

10th Highest Daily FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.06 | 0.01           | 4.32       | 60.68              | 65.09 |
| A01         | 5            | 0.01    | 0.00 | 0.00           | 5.02       | 60.68              | 65.71 |
| A02         | 1.5          | 0.03    | 0.22 | 0.20           | 0.32       | 60.68              | 61.45 |
| A02         | 5            | 0.03    | 0.15 | 0.20           | 0.43       | 60.68              | 61.49 |
| A02         | 10           | 0.00    | 0.15 | 0.56           | 0.09       | 60.43              | 61.25 |
| A02         | 15           | 0.00    | 0.03 | 0.93           | 0.03       | 60.34              | 61.33 |
| A03         | 1.5          | 0.05    | 0.00 | 0.00           | 1.71       | 60.68              | 62.45 |
| A03         | 5            | 0.03    | 0.00 | 0.00           | 1.59       | 60.68              | 62.30 |
| A03         | 10           | 0.02    | 0.00 | 0.01           | 0.44       | 61.56              | 62.03 |
| A04         | 1.5          | 0.03    | 0.02 | 0.01           | 0.42       | 60.68              | 61.16 |
| A04         | 5            | 0.03    | 0.02 | 0.01           | 0.41       | 60.68              | 61.15 |
| A04         | 10           | 0.02    | 0.02 | 0.01           | 0.30       | 60.68              | 61.03 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00           | 0.05       | 60.68              | 60.74 |
| A05         | 5            | 0.00    | 0.00 | 0.00           | 0.04       | 60.68              | 60.73 |
| A06         | 1.5          | 0.02    | 0.08 | 0.07           | 0.69       | 60.68              | 61.54 |
| A06         | 5            | 0.02    | 0.02 | 0.02           | 0.73       | 60.68              | 61.48 |
| A06         | 10           | 0.02    | 0.06 | 0.14           | 0.61       | 60.43              | 61.26 |
| A07         | 1.5          | 0.03    | 0.08 | 0.07           | 0.82       | 60.68              | 61.67 |
| A07         | 5            | 0.03    | 0.10 | 0.04           | 1.04       | 60.43              | 61.63 |
| A07         | 10           | 0.02    | 0.04 | 0.11           | 0.87       | 60.43              | 61.48 |
| A08         | 1.5          | 0.01    | 0.11 | 0.08           | 0.24       | 60.68              | 61.11 |
| A08         | 5            | 0.00    | 0.09 | 0.10           | 0.22       | 60.68              | 61.10 |
| A08         | 10           | 0.00    | 0.05 | 0.18           | 0.15       | 60.68              | 61.07 |
| A09         | 1.5          | 0.01    | 1.15 | 0.12           | 0.17       | 60.43              | 61.88 |
| A09         | 5            | 0.01    | 0.18 | 0.13           | 0.41       | 60.68              | 61.42 |
| A09         | 10           | 0.00    | 0.30 | 0.08           | 0.08       | 60.68              | 61.15 |
| A09         | 15           | 0.00    | 0.10 | 0.12           | 0.31       | 60.68              | 61.23 |
| A10         | 1.5          | 0.00    | 0.02 | 0.00           | 0.15       | 60.88              | 61.05 |
| A10         | 5            | 0.00    | 0.01 | 0.00           | 0.15       | 60.88              | 61.05 |
| A11         | 1.5          | 0.01    | 0.37 | 0.20           | 0.29       | 60.68              | 61.55 |
| A11         | 5            | 0.01    | 0.24 | 0.21           | 0.28       | 60.68              | 61.43 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-3

Annual FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.04 | 0.01           | 4.71       | 24.32              | 29.09 |
| A01         | 5            | 0.02    | 0.03 | 0.01           | 4.45       | 24.32              | 28.83 |
| A02         | 1.5          | 0.03    | 0.16 | 0.08           | 0.48       | 24.32              | 25.08 |
| A02         | 5            | 0.03    | 0.12 | 0.09           | 0.48       | 24.32              | 25.03 |
| A02         | 10           | 0.02    | 0.04 | 0.20           | 0.45       | 24.32              | 25.03 |
| A02         | 15           | 0.01    | 0.03 | 0.24           | 0.44       | 24.32              | 25.03 |
| A03         | 1.5          | 0.04    | 0.02 | 0.01           | 0.84       | 24.32              | 25.24 |
| A03         | 5            | 0.03    | 0.02 | 0.01           | 0.79       | 24.32              | 25.18 |
| A03         | 10           | 0.02    | 0.02 | 0.02           | 0.65       | 24.32              | 25.03 |
| A04         | 1.5          | 0.02    | 0.01 | 0.01           | 0.35       | 24.32              | 24.71 |
| A04         | 5            | 0.02    | 0.01 | 0.01           | 0.32       | 24.32              | 24.68 |
| A04         | 10           | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.59 |
| A05         | 1.5          | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.58 |
| A05         | 5            | 0.01    | 0.01 | 0.01           | 0.21       | 24.32              | 24.56 |
| A06         | 1.5          | 0.03    | 0.04 | 0.03           | 0.64       | 24.32              | 25.06 |
| A06         | 5            | 0.02    | 0.04 | 0.03           | 0.62       | 24.32              | 25.03 |
| A06         | 10           | 0.02    | 0.02 | 0.05           | 0.52       | 24.32              | 24.93 |
| A07         | 1.5          | 0.03    | 0.03 | 0.02           | 0.45       | 24.32              | 24.86 |
| A07         | 5            | 0.02    | 0.03 | 0.03           | 0.44       | 24.32              | 24.84 |
| A07         | 10           | 0.02    | 0.02 | 0.04           | 0.36       | 24.32              | 24.76 |
| A08         | 1.5          | 0.01    | 0.04 | 0.03           | 0.41       | 24.32              | 24.81 |
| A08         | 5            | 0.01    | 0.04 | 0.03           | 0.39       | 24.32              | 24.79 |
| A08         | 10           | 0.01    | 0.02 | 0.06           | 0.32       | 24.32              | 24.72 |
| A09         | 1.5          | 0.03    | 0.33 | 0.07           | 0.50       | 24.32              | 25.26 |
| A09         | 5            | 0.03    | 0.21 | 0.07           | 0.48       | 24.32              | 25.11 |
| A09         | 10           | 0.02    | 0.09 | 0.13           | 0.44       | 24.32              | 24.99 |
| A09         | 15           | 0.01    | 0.06 | 0.19           | 0.39       | 24.32              | 24.97 |
| A10         | 1.5          | 0.00    | 0.03 | 0.01           | 0.11       | 24.48              | 24.63 |
| A10         | 5            | 0.00    | 0.03 | 0.02           | 0.10       | 24.48              | 24.62 |
| A11         | 1.5          | 0.02    | 0.23 | 0.08           | 0.39       | 24.32              | 25.04 |
| A11         | 5            | 0.02    | 0.14 | 0.09           | 0.38       | 24.32              | 24.96 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-4

Highest Hourly TSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust   | Existing YLSTW | Industrial | Ambient Background | Total  |
|-------------|--------------|---------|--------|----------------|------------|--------------------|--------|
| A01         | 1.5          | 0.00    | 0.00   | 0.00           | 94.25      | 144.05             | 238.30 |
| A01         | 5            | 0.00    | 0.00   | 0.00           | 243.64     | 76.71              | 320.36 |
| A02         | 1.5          | 0.05    | 143.93 | 0.00           | 1.05       | 82.86              | 227.89 |
| A02         | 5            | 0.00    | 0.60   | 1.00           | 0.03       | 206.28             | 207.91 |
| A02         | 10           | 0.00    | 0.52   | 1.01           | 0.02       | 206.28             | 207.82 |
| A02         | 15           | 0.00    | 0.35   | 0.85           | 0.01       | 206.28             | 207.49 |
| A03         | 1.5          | 0.01    | 0.00   | 0.00           | 5.93       | 206.28             | 212.22 |
| A03         | 5            | 0.01    | 0.00   | 0.00           | 5.72       | 206.28             | 212.01 |
| A03         | 10           | 0.00    | 0.00   | 0.00           | 5.13       | 206.28             | 211.41 |
| A04         | 1.5          | 0.01    | 0.00   | 0.00           | 0.08       | 206.28             | 206.37 |
| A04         | 5            | 0.01    | 0.00   | 0.00           | 0.07       | 206.28             | 206.36 |
| A04         | 10           | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A05         | 1.5          | 0.00    | 0.00   | 0.00           | 0.04       | 206.28             | 206.32 |
| A05         | 5            | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A06         | 1.5          | 0.01    | 0.85   | 0.10           | 0.06       | 206.28             | 207.29 |
| A06         | 5            | 0.01    | 0.85   | 0.08           | 0.06       | 206.28             | 207.28 |
| A06         | 10           | 0.01    | 0.90   | 0.07           | 0.04       | 206.28             | 207.28 |
| A07         | 1.5          | 0.01    | 0.57   | 0.06           | 0.67       | 206.28             | 207.59 |
| A07         | 5            | 0.01    | 0.57   | 0.05           | 0.66       | 206.28             | 207.56 |
| A07         | 10           | 0.01    | 0.58   | 0.04           | 0.60       | 206.28             | 207.50 |
| A08         | 1.5          | 0.00    | 0.09   | 0.20           | 0.02       | 206.28             | 206.60 |
| A08         | 5            | 0.00    | 0.10   | 0.20           | 0.02       | 206.28             | 206.59 |
| A08         | 10           | 0.00    | 0.07   | 0.19           | 0.01       | 206.28             | 206.55 |
| A09         | 1.5          | 0.00    | 405.18 | 0.00           | 1.56       | 44.21              | 450.96 |
| A09         | 5            | 0.01    | 104.66 | 0.00           | 0.23       | 154.54             | 259.44 |
| A09         | 10           | 0.00    | 1.65   | 0.00           | 0.02       | 206.28             | 207.96 |
| A09         | 15           | 0.00    | 0.45   | 0.00           | 0.02       | 206.28             | 206.75 |
| A10         | 1.5          | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A10         | 5            | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A11         | 1.5          | 0.02    | 210.86 | 0.00           | 1.14       | 73.32              | 285.33 |
| A11         | 5            | 0.00    | 0.12   | 0.30           | 0.02       | 206.28             | 206.72 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-4

10th Highest Daily RSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.00 | 0.00           | 29.85      | 64.21              | 94.09 |
| A01         | 5            | 0.01    | 0.27 | 0.00           | 11.54      | 80.91              | 92.74 |
| A02         | 1.5          | 0.04    | 1.61 | 0.20           | 1.23       | 80.91              | 83.99 |
| A02         | 5            | 0.03    | 1.17 | 0.20           | 1.49       | 80.91              | 83.80 |
| A02         | 10           | 0.00    | 0.82 | 0.56           | 0.65       | 80.57              | 82.61 |
| A02         | 15           | 0.01    | 0.25 | 0.24           | 0.82       | 80.91              | 82.23 |
| A03         | 1.5          | 0.07    | 2.37 | 0.02           | 7.57       | 75.82              | 85.85 |
| A03         | 5            | 0.05    | 0.92 | 0.03           | 3.87       | 80.45              | 85.32 |
| A03         | 10           | 0.02    | 0.00 | 0.00           | 0.94       | 82.81              | 83.77 |
| A04         | 1.5          | 0.03    | 0.00 | 0.00           | 0.70       | 82.81              | 83.54 |
| A04         | 5            | 0.02    | 0.00 | 0.00           | 0.65       | 82.81              | 83.48 |
| A04         | 10           | 0.02    | 0.15 | 0.01           | 1.10       | 80.91              | 82.18 |
| A05         | 1.5          | 0.00    | 0.18 | 0.00           | 0.36       | 80.91              | 81.46 |
| A05         | 5            | 0.00    | 0.16 | 0.00           | 0.32       | 80.91              | 81.40 |
| A06         | 1.5          | 0.03    | 0.42 | 0.07           | 2.91       | 80.91              | 84.34 |
| A06         | 5            | 0.02    | 0.40 | 0.07           | 2.69       | 80.91              | 84.10 |
| A06         | 10           | 0.02    | 0.50 | 0.14           | 1.41       | 80.57              | 82.65 |
| A07         | 1.5          | 0.04    | 0.81 | 0.03           | 3.21       | 80.57              | 84.66 |
| A07         | 5            | 0.03    | 0.76 | 0.04           | 3.08       | 80.57              | 84.49 |
| A07         | 10           | 0.02    | 0.22 | 0.13           | 1.76       | 80.91              | 83.04 |
| A08         | 1.5          | 0.01    | 1.94 | 0.07           | 0.49       | 80.57              | 83.07 |
| A08         | 5            | 0.01    | 1.84 | 0.08           | 0.43       | 80.57              | 82.93 |
| A08         | 10           | 0.01    | 0.79 | 0.20           | 0.22       | 80.57              | 81.79 |
| A09         | 1.5          | 0.04    | 9.17 | 0.04           | 2.04       | 79.03              | 90.33 |
| A09         | 5            | 0.03    | 1.02 | 0.02           | 2.87       | 82.81              | 86.75 |
| A09         | 10           | 0.01    | 2.22 | 0.16           | 0.35       | 80.57              | 83.30 |
| A09         | 15           | 0.00    | 1.14 | 0.04           | 0.24       | 80.91              | 82.33 |
| A10         | 1.5          | 0.00    | 0.17 | 0.00           | 0.45       | 81.18              | 81.80 |
| A10         | 5            | 0.00    | 0.16 | 0.00           | 0.44       | 81.18              | 81.78 |
| A11         | 1.5          | 0.00    | 3.43 | 0.20           | 0.48       | 80.57              | 84.69 |
| A11         | 5            | 0.00    | 2.30 | 0.19           | 0.44       | 80.57              | 83.51 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-4

Annual RSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.33 | 0.01           | 10.977     | 34.25              | 45.59 |
| A01         | 5            | 0.02    | 0.29 | 0.01           | 10.423     | 34.25              | 44.99 |
| A02         | 1.5          | 0.04    | 1.11 | 0.08           | 1.548      | 34.25              | 37.02 |
| A02         | 5            | 0.03    | 0.79 | 0.09           | 1.527      | 34.25              | 36.68 |
| A02         | 10           | 0.02    | 0.26 | 0.20           | 1.411      | 34.25              | 36.15 |
| A02         | 15           | 0.01    | 0.18 | 0.24           | 1.244      | 34.25              | 35.93 |
| A03         | 1.5          | 0.05    | 0.21 | 0.01           | 2.842      | 34.25              | 37.36 |
| A03         | 5            | 0.03    | 0.19 | 0.01           | 2.753      | 34.25              | 37.25 |
| A03         | 10           | 0.02    | 0.13 | 0.02           | 2.128      | 34.25              | 36.55 |
| A04         | 1.5          | 0.02    | 0.08 | 0.01           | 1.654      | 34.25              | 36.02 |
| A04         | 5            | 0.02    | 0.08 | 0.01           | 1.562      | 34.25              | 35.93 |
| A04         | 10           | 0.01    | 0.07 | 0.01           | 0.848      | 34.25              | 35.19 |
| A05         | 1.5          | 0.01    | 0.12 | 0.01           | 0.707      | 34.25              | 35.09 |
| A05         | 5            | 0.01    | 0.11 | 0.01           | 0.657      | 34.25              | 35.03 |
| A06         | 1.5          | 0.03    | 0.27 | 0.03           | 2.829      | 34.25              | 37.41 |
| A06         | 5            | 0.03    | 0.25 | 0.03           | 2.603      | 34.25              | 37.17 |
| A06         | 10           | 0.02    | 0.14 | 0.05           | 1.510      | 34.25              | 35.98 |
| A07         | 1.5          | 0.03    | 0.22 | 0.02           | 2.217      | 34.25              | 36.74 |
| A07         | 5            | 0.02    | 0.21 | 0.03           | 2.052      | 34.25              | 36.56 |
| A07         | 10           | 0.02    | 0.12 | 0.04           | 1.189      | 34.25              | 35.63 |
| A08         | 1.5          | 0.01    | 0.24 | 0.03           | 1.552      | 34.25              | 36.08 |
| A08         | 5            | 0.01    | 0.22 | 0.03           | 1.441      | 34.25              | 35.96 |
| A08         | 10           | 0.01    | 0.12 | 0.06           | 0.970      | 34.25              | 35.41 |
| A09         | 1.5          | 0.03    | 3.94 | 0.07           | 1.847      | 34.25              | 40.15 |
| A09         | 5            | 0.03    | 1.95 | 0.07           | 1.789      | 34.25              | 38.09 |
| A09         | 10           | 0.02    | 0.83 | 0.13           | 1.602      | 34.25              | 36.83 |
| A09         | 15           | 0.01    | 0.49 | 0.19           | 1.387      | 34.25              | 36.34 |
| A10         | 1.5          | 0.00    | 0.19 | 0.01           | 0.399      | 34.47              | 35.08 |
| A10         | 5            | 0.00    | 0.18 | 0.02           | 0.384      | 34.47              | 35.06 |
| A11         | 1.5          | 0.02    | 1.55 | 0.08           | 1.349      | 34.25              | 37.26 |
| A11         | 5            | 0.02    | 1.01 | 0.09           | 1.310      | 34.25              | 36.68 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-4

10th Highest Daily FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.23 | 0.04           | 4.58       | 60.34              | 65.21 |
| A01         | 5            | 0.01    | 0.04 | 0.00           | 5.02       | 60.68              | 65.76 |
| A02         | 1.5          | 0.03    | 0.29 | 0.20           | 0.32       | 60.68              | 61.53 |
| A02         | 5            | 0.03    | 0.20 | 0.20           | 0.43       | 60.68              | 61.54 |
| A02         | 10           | 0.00    | 0.14 | 0.56           | 0.09       | 60.43              | 61.23 |
| A02         | 15           | 0.00    | 0.01 | 0.93           | 0.03       | 60.34              | 61.32 |
| A03         | 1.5          | 0.05    | 0.12 | 0.00           | 1.71       | 60.68              | 62.56 |
| A03         | 5            | 0.03    | 0.09 | 0.00           | 1.59       | 60.68              | 62.40 |
| A03         | 10           | 0.02    | 0.00 | 0.01           | 0.44       | 61.56              | 62.03 |
| A04         | 1.5          | 0.03    | 0.02 | 0.01           | 0.42       | 60.68              | 61.17 |
| A04         | 5            | 0.03    | 0.02 | 0.01           | 0.41       | 60.68              | 61.15 |
| A04         | 10           | 0.02    | 0.02 | 0.01           | 0.30       | 60.68              | 61.03 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00           | 0.05       | 60.68              | 60.74 |
| A05         | 5            | 0.00    | 0.00 | 0.00           | 0.04       | 60.68              | 60.73 |
| A06         | 1.5          | 0.02    | 0.08 | 0.07           | 0.69       | 60.68              | 61.54 |
| A06         | 5            | 0.02    | 0.03 | 0.02           | 0.73       | 60.68              | 61.49 |
| A06         | 10           | 0.02    | 0.08 | 0.14           | 0.61       | 60.43              | 61.29 |
| A07         | 1.5          | 0.03    | 0.07 | 0.07           | 0.82       | 60.68              | 61.66 |
| A07         | 5            | 0.02    | 0.06 | 0.07           | 0.80       | 60.68              | 61.63 |
| A07         | 10           | 0.02    | 0.06 | 0.11           | 0.87       | 60.43              | 61.50 |
| A08         | 1.5          | 0.01    | 0.42 | 0.07           | 0.20       | 60.43              | 61.13 |
| A08         | 5            | 0.00    | 0.09 | 0.10           | 0.22       | 60.68              | 61.10 |
| A08         | 10           | 0.00    | 0.05 | 0.18           | 0.15       | 60.68              | 61.07 |
| A09         | 1.5          | 0.01    | 1.57 | 0.02           | 0.13       | 60.68              | 62.42 |
| A09         | 5            | 0.01    | 0.86 | 0.03           | 0.13       | 60.68              | 61.71 |
| A09         | 10           | 0.00    | 0.37 | 0.08           | 0.08       | 60.68              | 61.22 |
| A09         | 15           | 0.00    | 0.09 | 0.12           | 0.31       | 60.68              | 61.21 |
| A10         | 1.5          | 0.00    | 0.04 | 0.00           | 0.15       | 60.88              | 61.07 |
| A10         | 5            | 0.00    | 0.03 | 0.00           | 0.15       | 60.88              | 61.07 |
| A11         | 1.5          | 0.00    | 0.64 | 0.20           | 0.11       | 60.43              | 61.38 |
| A11         | 5            | 0.00    | 0.17 | 0.30           | 0.07       | 60.68              | 61.22 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-4

Annual FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.06 | 0.01           | 4.71       | 24.32              | 29.11 |
| A01         | 5            | 0.02    | 0.05 | 0.01           | 4.45       | 24.32              | 28.85 |
| A02         | 1.5          | 0.03    | 0.19 | 0.08           | 0.48       | 24.32              | 25.11 |
| A02         | 5            | 0.03    | 0.13 | 0.09           | 0.48       | 24.32              | 25.05 |
| A02         | 10           | 0.02    | 0.04 | 0.20           | 0.45       | 24.32              | 25.03 |
| A02         | 15           | 0.01    | 0.03 | 0.24           | 0.44       | 24.32              | 25.03 |
| A03         | 1.5          | 0.04    | 0.04 | 0.01           | 0.84       | 24.32              | 25.25 |
| A03         | 5            | 0.03    | 0.03 | 0.01           | 0.79       | 24.32              | 25.19 |
| A03         | 10           | 0.02    | 0.02 | 0.02           | 0.65       | 24.32              | 25.03 |
| A04         | 1.5          | 0.02    | 0.02 | 0.01           | 0.35       | 24.32              | 24.71 |
| A04         | 5            | 0.02    | 0.01 | 0.01           | 0.32       | 24.32              | 24.68 |
| A04         | 10           | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.59 |
| A05         | 1.5          | 0.01    | 0.02 | 0.01           | 0.23       | 24.32              | 24.58 |
| A05         | 5            | 0.01    | 0.02 | 0.01           | 0.21       | 24.32              | 24.56 |
| A06         | 1.5          | 0.03    | 0.05 | 0.03           | 0.64       | 24.32              | 25.07 |
| A06         | 5            | 0.02    | 0.04 | 0.03           | 0.62       | 24.32              | 25.04 |
| A06         | 10           | 0.02    | 0.02 | 0.05           | 0.52       | 24.32              | 24.93 |
| A07         | 1.5          | 0.03    | 0.04 | 0.02           | 0.45       | 24.32              | 24.87 |
| A07         | 5            | 0.02    | 0.04 | 0.03           | 0.44       | 24.32              | 24.84 |
| A07         | 10           | 0.02    | 0.02 | 0.04           | 0.36       | 24.32              | 24.76 |
| A08         | 1.5          | 0.01    | 0.05 | 0.03           | 0.41       | 24.32              | 24.82 |
| A08         | 5            | 0.01    | 0.04 | 0.03           | 0.39       | 24.32              | 24.80 |
| A08         | 10           | 0.01    | 0.02 | 0.06           | 0.32       | 24.32              | 24.72 |
| A09         | 1.5          | 0.03    | 0.64 | 0.07           | 0.50       | 24.32              | 25.56 |
| A09         | 5            | 0.03    | 0.31 | 0.07           | 0.48       | 24.32              | 25.21 |
| A09         | 10           | 0.02    | 0.13 | 0.13           | 0.44       | 24.32              | 25.03 |
| A09         | 15           | 0.01    | 0.08 | 0.19           | 0.39       | 24.32              | 24.99 |
| A10         | 1.5          | 0.00    | 0.03 | 0.01           | 0.11       | 24.48              | 24.63 |
| A10         | 5            | 0.00    | 0.03 | 0.02           | 0.10       | 24.48              | 24.63 |
| A11         | 1.5          | 0.02    | 0.27 | 0.08           | 0.39       | 24.32              | 25.08 |
| A11         | 5            | 0.02    | 0.17 | 0.09           | 0.38       | 24.32              | 24.98 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-5

Highest Hourly TSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust   | Existing YLSTW | Industrial | Ambient Background | Total  |
|-------------|--------------|---------|--------|----------------|------------|--------------------|--------|
| A01         | 1.5          | 0.00    | 0.00   | 0.00           | 94.25      | 144.05             | 238.30 |
| A01         | 5            | 0.00    | 0.00   | 0.00           | 243.64     | 76.71              | 320.36 |
| A02         | 1.5          | 0.04    | 191.90 | 0.00           | 0.41       | 95.64              | 287.99 |
| A02         | 5            | 0.03    | 90.84  | 0.15           | 0.18       | 154.54             | 245.75 |
| A02         | 10           | 0.00    | 2.10   | 1.01           | 0.02       | 206.28             | 209.40 |
| A02         | 15           | 0.00    | 0.86   | 0.85           | 0.01       | 206.28             | 208.00 |
| A03         | 1.5          | 0.01    | 0.00   | 0.00           | 5.93       | 206.28             | 212.22 |
| A03         | 5            | 0.01    | 0.00   | 0.00           | 5.72       | 206.28             | 212.01 |
| A03         | 10           | 0.00    | 0.00   | 0.00           | 5.13       | 206.28             | 211.41 |
| A04         | 1.5          | 0.01    | 0.00   | 0.00           | 0.08       | 206.28             | 206.37 |
| A04         | 5            | 0.01    | 0.00   | 0.00           | 0.07       | 206.28             | 206.36 |
| A04         | 10           | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A05         | 1.5          | 0.00    | 0.00   | 0.00           | 0.04       | 206.28             | 206.32 |
| A05         | 5            | 0.00    | 0.00   | 0.00           | 0.03       | 206.28             | 206.31 |
| A06         | 1.5          | 0.01    | 0.25   | 0.10           | 0.06       | 206.28             | 206.69 |
| A06         | 5            | 0.01    | 0.25   | 0.08           | 0.06       | 206.28             | 206.68 |
| A06         | 10           | 0.01    | 0.20   | 0.07           | 0.04       | 206.28             | 206.59 |
| A07         | 1.5          | 0.01    | 0.10   | 0.06           | 0.67       | 206.28             | 207.12 |
| A07         | 5            | 0.01    | 0.10   | 0.05           | 0.66       | 206.28             | 207.09 |
| A07         | 10           | 0.01    | 0.07   | 0.04           | 0.60       | 206.28             | 206.99 |
| A08         | 1.5          | 0.00    | 0.30   | 0.20           | 0.02       | 206.28             | 206.80 |
| A08         | 5            | 0.00    | 0.30   | 0.20           | 0.02       | 206.28             | 206.80 |
| A08         | 10           | 0.00    | 0.26   | 0.19           | 0.01       | 206.28             | 206.74 |
| A09         | 1.5          | 0.00    | 353.09 | 0.00           | 1.85       | 83.81              | 438.74 |
| A09         | 5            | 0.00    | 199.54 | 0.02           | 1.63       | 83.81              | 285.00 |
| A09         | 10           | 0.00    | 0.09   | 0.00           | 0.02       | 206.28             | 206.39 |
| A09         | 15           | 0.00    | 0.00   | 0.00           | 0.02       | 206.28             | 206.30 |
| A10         | 1.5          | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A10         | 5            | 0.00    | 0.00   | 0.00           | 0.01       | 204.85             | 204.86 |
| A11         | 1.5          | 0.02    | 331.09 | 0.00           | 1.14       | 73.32              | 405.56 |
| A11         | 5            | 0.00    | 71.68  | 0.48           | 0.16       | 154.54             | 226.86 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-5

10th Highest Daily RSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.00 | 0.00           | 29.85      | 64.21              | 94.08 |
| A01         | 5            | 0.01    | 0.00 | 0.00           | 11.54      | 80.91              | 92.46 |
| A02         | 1.5          | 0.06    | 0.36 | 0.02           | 2.67       | 82.81              | 85.93 |
| A02         | 5            | 0.03    | 3.56 | 0.15           | 1.85       | 79.03              | 84.62 |
| A02         | 10           | 0.02    | 0.60 | 0.22           | 1.45       | 80.91              | 83.19 |
| A02         | 15           | 0.00    | 1.03 | 0.36           | 0.09       | 80.91              | 82.39 |
| A03         | 1.5          | 0.07    | 0.30 | 0.04           | 3.93       | 80.45              | 84.79 |
| A03         | 5            | 0.05    | 0.30 | 0.03           | 3.87       | 80.45              | 84.71 |
| A03         | 10           | 0.02    | 0.00 | 0.00           | 0.94       | 82.81              | 83.77 |
| A04         | 1.5          | 0.03    | 0.00 | 0.00           | 0.70       | 82.81              | 83.54 |
| A04         | 5            | 0.02    | 0.00 | 0.00           | 0.65       | 82.81              | 83.48 |
| A04         | 10           | 0.02    | 0.05 | 0.01           | 1.10       | 80.91              | 82.09 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00           | 0.36       | 80.91              | 81.28 |
| A05         | 5            | 0.00    | 0.00 | 0.00           | 0.32       | 80.91              | 81.23 |
| A06         | 1.5          | 0.03    | 0.69 | 0.07           | 2.91       | 80.91              | 84.60 |
| A06         | 5            | 0.02    | 0.62 | 0.07           | 2.69       | 80.91              | 84.32 |
| A06         | 10           | 0.02    | 0.10 | 0.02           | 1.36       | 80.91              | 82.42 |
| A07         | 1.5          | 0.03    | 0.59 | 0.07           | 3.12       | 80.91              | 84.72 |
| A07         | 5            | 0.02    | 0.54 | 0.07           | 2.93       | 80.91              | 84.48 |
| A07         | 10           | 0.02    | 0.27 | 0.13           | 1.76       | 80.91              | 83.09 |
| A08         | 1.5          | 0.01    | 1.29 | 0.07           | 0.49       | 80.57              | 82.43 |
| A08         | 5            | 0.01    | 1.18 | 0.08           | 0.43       | 80.57              | 82.27 |
| A08         | 10           | 0.00    | 0.31 | 0.18           | 0.28       | 80.91              | 81.69 |
| A09         | 1.5          | 0.01    | 8.03 | 0.12           | 0.87       | 80.57              | 89.61 |
| A09         | 5            | 0.07    | 0.41 | 0.02           | 4.33       | 82.08              | 86.90 |
| A09         | 10           | 0.00    | 2.93 | 0.62           | 0.11       | 80.45              | 84.12 |
| A09         | 15           | 0.00    | 0.97 | 1.16           | 0.07       | 80.45              | 82.65 |
| A10         | 1.5          | 0.00    | 0.00 | 0.00           | 0.45       | 81.18              | 81.63 |
| A10         | 5            | 0.00    | 0.00 | 0.00           | 0.44       | 81.18              | 81.62 |
| A11         | 1.5          | 0.02    | 6.11 | 0.20           | 1.09       | 80.91              | 88.32 |
| A11         | 5            | 0.01    | 2.17 | 0.21           | 1.06       | 80.91              | 84.37 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-5

Annual RSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.15 | 0.01           | 10.977     | 34.25              | 45.41 |
| A01         | 5            | 0.02    | 0.13 | 0.01           | 10.423     | 34.25              | 44.84 |
| A02         | 1.5          | 0.04    | 1.80 | 0.08           | 1.548      | 34.25              | 37.72 |
| A02         | 5            | 0.03    | 1.13 | 0.09           | 1.527      | 34.25              | 37.02 |
| A02         | 10           | 0.02    | 0.46 | 0.20           | 1.411      | 34.25              | 36.34 |
| A02         | 15           | 0.01    | 0.31 | 0.24           | 1.244      | 34.25              | 36.06 |
| A03         | 1.5          | 0.05    | 0.11 | 0.01           | 2.842      | 34.25              | 37.27 |
| A03         | 5            | 0.03    | 0.11 | 0.01           | 2.753      | 34.25              | 37.16 |
| A03         | 10           | 0.02    | 0.06 | 0.02           | 2.128      | 34.25              | 36.48 |
| A04         | 1.5          | 0.02    | 0.05 | 0.01           | 1.654      | 34.25              | 35.99 |
| A04         | 5            | 0.02    | 0.05 | 0.01           | 1.562      | 34.25              | 35.89 |
| A04         | 10           | 0.01    | 0.03 | 0.01           | 0.848      | 34.25              | 35.16 |
| A05         | 1.5          | 0.01    | 0.06 | 0.01           | 0.707      | 34.25              | 35.03 |
| A05         | 5            | 0.01    | 0.05 | 0.01           | 0.657      | 34.25              | 34.98 |
| A06         | 1.5          | 0.03    | 0.26 | 0.03           | 2.829      | 34.25              | 37.39 |
| A06         | 5            | 0.03    | 0.23 | 0.03           | 2.603      | 34.25              | 37.15 |
| A06         | 10           | 0.02    | 0.12 | 0.05           | 1.510      | 34.25              | 35.96 |
| A07         | 1.5          | 0.03    | 0.19 | 0.02           | 2.217      | 34.25              | 36.72 |
| A07         | 5            | 0.02    | 0.18 | 0.03           | 2.052      | 34.25              | 36.54 |
| A07         | 10           | 0.02    | 0.10 | 0.04           | 1.189      | 34.25              | 35.60 |
| A08         | 1.5          | 0.01    | 0.26 | 0.03           | 1.552      | 34.25              | 36.11 |
| A08         | 5            | 0.01    | 0.24 | 0.03           | 1.441      | 34.25              | 35.98 |
| A08         | 10           | 0.01    | 0.12 | 0.06           | 0.970      | 34.25              | 35.41 |
| A09         | 1.5          | 0.03    | 3.38 | 0.07           | 1.847      | 34.25              | 39.58 |
| A09         | 5            | 0.03    | 1.91 | 0.07           | 1.789      | 34.25              | 38.06 |
| A09         | 10           | 0.02    | 0.81 | 0.13           | 1.602      | 34.25              | 36.82 |
| A09         | 15           | 0.01    | 0.43 | 0.19           | 1.387      | 34.25              | 36.27 |
| A10         | 1.5          | 0.00    | 0.09 | 0.01           | 0.399      | 34.47              | 34.98 |
| A10         | 5            | 0.00    | 0.09 | 0.02           | 0.384      | 34.47              | 34.96 |
| A11         | 1.5          | 0.02    | 3.40 | 0.08           | 1.349      | 34.25              | 39.11 |
| A11         | 5            | 0.02    | 1.60 | 0.09           | 1.310      | 34.25              | 37.28 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-5

10th Highest Daily FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.01    | 0.10 | 0.01           | 4.32       | 60.68              | 65.13 |
| A01         | 5            | 0.01    | 0.00 | 0.00           | 5.02       | 60.68              | 65.71 |
| A02         | 1.5          | 0.01    | 0.65 | 0.19           | 0.11       | 60.68              | 61.64 |
| A02         | 5            | 0.03    | 0.21 | 0.20           | 0.43       | 60.68              | 61.56 |
| A02         | 10           | 0.00    | 0.24 | 0.56           | 0.09       | 60.43              | 61.33 |
| A02         | 15           | 0.00    | 0.04 | 0.93           | 0.03       | 60.34              | 61.34 |
| A03         | 1.5          | 0.05    | 0.00 | 0.00           | 1.71       | 60.68              | 62.45 |
| A03         | 5            | 0.03    | 0.00 | 0.00           | 1.59       | 60.68              | 62.30 |
| A03         | 10           | 0.02    | 0.00 | 0.01           | 0.44       | 61.56              | 62.03 |
| A04         | 1.5          | 0.03    | 0.01 | 0.01           | 0.42       | 60.68              | 61.15 |
| A04         | 5            | 0.03    | 0.01 | 0.01           | 0.41       | 60.68              | 61.14 |
| A04         | 10           | 0.02    | 0.01 | 0.01           | 0.30       | 60.68              | 61.02 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00           | 0.05       | 60.68              | 60.74 |
| A05         | 5            | 0.00    | 0.00 | 0.00           | 0.04       | 60.68              | 60.73 |
| A06         | 1.5          | 0.03    | 0.02 | 0.02           | 0.80       | 60.68              | 61.55 |
| A06         | 5            | 0.02    | 0.02 | 0.02           | 0.73       | 60.68              | 61.48 |
| A06         | 10           | 0.02    | 0.04 | 0.14           | 0.61       | 60.43              | 61.25 |
| A07         | 1.5          | 0.03    | 0.10 | 0.03           | 1.07       | 60.43              | 61.66 |
| A07         | 5            | 0.03    | 0.08 | 0.04           | 1.04       | 60.43              | 61.62 |
| A07         | 10           | 0.02    | 0.03 | 0.11           | 0.87       | 60.43              | 61.47 |
| A08         | 1.5          | 0.01    | 0.13 | 0.08           | 0.24       | 60.68              | 61.13 |
| A08         | 5            | 0.00    | 0.11 | 0.10           | 0.22       | 60.68              | 61.12 |
| A08         | 10           | 0.00    | 0.05 | 0.18           | 0.15       | 60.68              | 61.07 |
| A09         | 1.5          | 0.00    | 1.66 | 0.33           | 0.12       | 60.34              | 62.45 |
| A09         | 5            | 0.01    | 0.72 | 0.13           | 0.41       | 60.68              | 61.96 |
| A09         | 10           | 0.00    | 0.46 | 0.62           | 0.04       | 60.34              | 61.46 |
| A09         | 15           | 0.00    | 0.31 | 0.12           | 0.31       | 60.68              | 61.44 |
| A10         | 1.5          | 0.00    | 0.00 | 0.00           | 0.15       | 60.88              | 61.04 |
| A10         | 5            | 0.00    | 0.00 | 0.00           | 0.15       | 60.88              | 61.03 |
| A11         | 1.5          | 0.01    | 1.03 | 0.20           | 0.29       | 60.68              | 62.21 |
| A11         | 5            | 0.00    | 0.81 | 0.19           | 0.09       | 60.43              | 61.53 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2020 - 2026 Phase 1-5

Annual FSP Concentration (µg/m<sup>3</sup>)

| Receptor ID | Height (mAG) | Vehicle | Dust | Existing YLSTW | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|----------------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.03 | 0.01           | 4.71       | 24.32              | 29.08 |
| A01         | 5            | 0.02    | 0.02 | 0.01           | 4.45       | 24.32              | 28.82 |
| A02         | 1.5          | 0.03    | 0.30 | 0.08           | 0.48       | 24.32              | 25.22 |
| A02         | 5            | 0.03    | 0.18 | 0.09           | 0.48       | 24.32              | 25.10 |
| A02         | 10           | 0.02    | 0.07 | 0.20           | 0.45       | 24.32              | 25.06 |
| A02         | 15           | 0.01    | 0.05 | 0.24           | 0.44       | 24.32              | 25.05 |
| A03         | 1.5          | 0.04    | 0.02 | 0.01           | 0.84       | 24.32              | 25.24 |
| A03         | 5            | 0.03    | 0.02 | 0.01           | 0.79       | 24.32              | 25.18 |
| A03         | 10           | 0.02    | 0.01 | 0.02           | 0.65       | 24.32              | 25.02 |
| A04         | 1.5          | 0.02    | 0.01 | 0.01           | 0.35       | 24.32              | 24.71 |
| A04         | 5            | 0.02    | 0.01 | 0.01           | 0.32       | 24.32              | 24.68 |
| A04         | 10           | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.59 |
| A05         | 1.5          | 0.01    | 0.01 | 0.01           | 0.23       | 24.32              | 24.57 |
| A05         | 5            | 0.01    | 0.01 | 0.01           | 0.21       | 24.32              | 24.55 |
| A06         | 1.5          | 0.03    | 0.05 | 0.03           | 0.64       | 24.32              | 25.06 |
| A06         | 5            | 0.02    | 0.04 | 0.03           | 0.62       | 24.32              | 25.04 |
| A06         | 10           | 0.02    | 0.02 | 0.05           | 0.52       | 24.32              | 24.93 |
| A07         | 1.5          | 0.03    | 0.04 | 0.02           | 0.45       | 24.32              | 24.86 |
| A07         | 5            | 0.02    | 0.03 | 0.03           | 0.44       | 24.32              | 24.84 |
| A07         | 10           | 0.02    | 0.02 | 0.04           | 0.36       | 24.32              | 24.75 |
| A08         | 1.5          | 0.01    | 0.05 | 0.03           | 0.41       | 24.32              | 24.82 |
| A08         | 5            | 0.01    | 0.04 | 0.03           | 0.39       | 24.32              | 24.80 |
| A08         | 10           | 0.01    | 0.02 | 0.06           | 0.32       | 24.32              | 24.72 |
| A09         | 1.5          | 0.03    | 0.54 | 0.07           | 0.50       | 24.32              | 25.46 |
| A09         | 5            | 0.03    | 0.30 | 0.07           | 0.48       | 24.32              | 25.20 |
| A09         | 10           | 0.02    | 0.13 | 0.13           | 0.44       | 24.32              | 25.03 |
| A09         | 15           | 0.01    | 0.07 | 0.19           | 0.39       | 24.32              | 24.98 |
| A10         | 1.5          | 0.00    | 0.02 | 0.01           | 0.11       | 24.48              | 24.62 |
| A10         | 5            | 0.00    | 0.02 | 0.02           | 0.10       | 24.48              | 24.61 |
| A11         | 1.5          | 0.02    | 0.55 | 0.08           | 0.39       | 24.32              | 25.37 |
| A11         | 5            | 0.02    | 0.26 | 0.09           | 0.38       | 24.32              | 25.07 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2026 - 2030

Highest Hourly TSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust   | YLEPP | Industrial | Ambient Background | Total  |
|-------------|--------------|---------|--------|-------|------------|--------------------|--------|
| A01         | 1.5          | 0.00    | 118.20 | 2.24  | 38.84      | 79.07              | 238.35 |
| A01         | 5            | 0.00    | 0.00   | 0.00  | 243.64     | 76.71              | 320.36 |
| A02         | 1.5          | 0.03    | 249.81 | 2.22  | 0.95       | 73.43              | 326.45 |
| A02         | 5            | 0.02    | 191.90 | 2.42  | 0.83       | 73.43              | 268.61 |
| A02         | 10           | 0.00    | 2.69   | 4.36  | 0.02       | 206.28             | 213.35 |
| A02         | 15           | 0.00    | 1.91   | 4.98  | 0.01       | 206.28             | 213.19 |
| A03         | 1.5          | 0.01    | 0.00   | 0.00  | 5.93       | 206.28             | 212.23 |
| A03         | 5            | 0.01    | 0.00   | 0.00  | 5.72       | 206.28             | 212.01 |
| A03         | 10           | 0.00    | 0.00   | 0.00  | 5.13       | 206.28             | 211.41 |
| A04         | 1.5          | 0.01    | 0.00   | 0.00  | 0.08       | 206.28             | 206.37 |
| A04         | 5            | 0.01    | 0.00   | 0.00  | 0.07       | 206.28             | 206.36 |
| A04         | 10           | 0.00    | 0.00   | 0.00  | 0.03       | 206.28             | 206.31 |
| A05         | 1.5          | 0.00    | 0.00   | 0.00  | 0.04       | 206.28             | 206.32 |
| A05         | 5            | 0.00    | 0.00   | 0.00  | 0.03       | 206.28             | 206.31 |
| A06         | 1.5          | 0.01    | 0.37   | 0.88  | 0.06       | 206.28             | 207.61 |
| A06         | 5            | 0.01    | 0.38   | 0.86  | 0.06       | 206.28             | 207.58 |
| A06         | 10           | 0.01    | 0.35   | 0.83  | 0.04       | 206.28             | 207.50 |
| A07         | 1.5          | 0.01    | 0.21   | 0.45  | 0.67       | 206.28             | 207.63 |
| A07         | 5            | 0.01    | 0.22   | 0.42  | 0.66       | 206.28             | 207.58 |
| A07         | 10           | 0.01    | 0.19   | 0.40  | 0.60       | 206.28             | 207.47 |
| A08         | 1.5          | 0.00    | 1.44   | 0.81  | 0.02       | 206.28             | 208.55 |
| A08         | 5            | 0.00    | 1.46   | 0.77  | 0.02       | 206.28             | 208.52 |
| A08         | 10           | 0.00    | 1.56   | 0.76  | 0.01       | 206.28             | 208.61 |
| A09         | 1.5          | 0.00    | 309.21 | 3.67  | 0.29       | 54.84              | 368.00 |
| A09         | 5            | 0.00    | 171.92 | 4.29  | 0.15       | 94.68              | 271.04 |
| A09         | 10           | 0.00    | 0.76   | 1.71  | 0.02       | 206.28             | 208.77 |
| A09         | 15           | 0.00    | 0.34   | 1.50  | 0.02       | 206.28             | 208.13 |
| A10         | 1.5          | 0.09    | 212.61 | 5.48  | 8.62       | 53.86              | 280.67 |
| A10         | 5            | 0.09    | 198.00 | 5.62  | 8.20       | 53.86              | 265.77 |
| A11         | 1.5          | 0.00    | 322.07 | 1.06  | 1.11       | 44.21              | 368.46 |
| A11         | 5            | 0.00    | 206.03 | 1.08  | 0.98       | 44.21              | 252.30 |



Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2026 - 2030

10th Highest Daily RSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | YLEPP | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|-------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.00 | 0.01  | 29.85      | 64.21              | 94.09 |
| A01         | 5            | 0.01    | 0.00 | 0.01  | 11.54      | 80.91              | 92.47 |
| A02         | 1.5          | 0.05    | 3.22 | 2.20  | 1.93       | 79.03              | 86.43 |
| A02         | 5            | 0.01    | 3.07 | 1.53  | 0.39       | 80.91              | 85.91 |
| A02         | 10           | 0.02    | 1.04 | 2.56  | 1.63       | 79.03              | 84.29 |
| A02         | 15           | 0.01    | 0.79 | 2.99  | 1.25       | 79.03              | 84.08 |
| A03         | 1.5          | 0.10    | 0.00 | 0.01  | 3.90       | 82.08              | 86.09 |
| A03         | 5            | 0.07    | 0.00 | 0.01  | 3.63       | 82.08              | 85.79 |
| A03         | 10           | 0.02    | 0.00 | 0.01  | 0.94       | 82.81              | 83.78 |
| A04         | 1.5          | 0.06    | 2.74 | 0.17  | 5.33       | 75.82              | 84.12 |
| A04         | 5            | 0.05    | 2.73 | 0.17  | 4.98       | 75.82              | 83.75 |
| A04         | 10           | 0.02    | 0.26 | 0.07  | 1.10       | 80.91              | 82.37 |
| A05         | 1.5          | 0.00    | 0.69 | 0.01  | 0.36       | 80.91              | 81.98 |
| A05         | 5            | 0.00    | 0.66 | 0.01  | 0.32       | 80.91              | 81.90 |
| A06         | 1.5          | 0.03    | 1.32 | 0.44  | 2.91       | 80.91              | 85.61 |
| A06         | 5            | 0.02    | 1.25 | 0.45  | 2.69       | 80.91              | 85.33 |
| A06         | 10           | 0.03    | 0.49 | 0.59  | 1.41       | 80.57              | 83.09 |
| A07         | 1.5          | 0.04    | 0.82 | 0.44  | 3.21       | 80.57              | 85.08 |
| A07         | 5            | 0.03    | 0.13 | 0.12  | 3.71       | 80.91              | 84.90 |
| A07         | 10           | 0.05    | 0.05 | 0.02  | 1.30       | 82.08              | 83.49 |
| A08         | 1.5          | 0.01    | 2.22 | 0.62  | 0.49       | 80.57              | 83.90 |
| A08         | 5            | 0.01    | 0.38 | 0.45  | 1.98       | 80.91              | 83.73 |
| A08         | 10           | 0.01    | 1.15 | 0.64  | 0.22       | 80.57              | 82.59 |
| A09         | 1.5          | 0.00    | 4.30 | 1.16  | 0.43       | 80.45              | 86.35 |
| A09         | 5            | 0.03    | 0.14 | 0.10  | 2.87       | 82.81              | 85.96 |
| A09         | 10           | 0.01    | 1.71 | 2.15  | 0.35       | 80.57              | 84.79 |
| A09         | 15           | 0.00    | 1.35 | 2.50  | 0.13       | 80.57              | 84.56 |
| A10         | 1.5          | 0.00    | 0.32 | 0.01  | 0.45       | 81.18              | 81.96 |
| A10         | 5            | 0.00    | 0.29 | 0.01  | 0.44       | 81.18              | 81.92 |
| A11         | 1.5          | 0.01    | 5.08 | 1.17  | 0.37       | 80.91              | 87.53 |
| A11         | 5            | 0.01    | 3.91 | 1.21  | 0.35       | 80.91              | 86.39 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2026 - 2030

Annual RSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | YLEPP | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|-------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.36 | 0.11  | 10.98      | 34.25              | 45.72 |
| A01         | 5            | 0.02    | 0.34 | 0.10  | 10.42      | 34.25              | 45.14 |
| A02         | 1.5          | 0.04    | 1.60 | 0.51  | 1.55       | 34.25              | 37.96 |
| A02         | 5            | 0.03    | 1.32 | 0.52  | 1.53       | 34.25              | 37.66 |
| A02         | 10           | 0.02    | 0.58 | 0.56  | 1.41       | 34.25              | 36.83 |
| A02         | 15           | 0.02    | 0.39 | 0.62  | 1.24       | 34.25              | 36.52 |
| A03         | 1.5          | 0.05    | 0.25 | 0.09  | 2.84       | 34.25              | 37.49 |
| A03         | 5            | 0.04    | 0.25 | 0.09  | 2.75       | 34.25              | 37.38 |
| A03         | 10           | 0.02    | 0.19 | 0.09  | 2.13       | 34.25              | 36.68 |
| A04         | 1.5          | 0.03    | 0.14 | 0.05  | 1.65       | 34.25              | 36.12 |
| A04         | 5            | 0.02    | 0.13 | 0.05  | 1.56       | 34.25              | 36.02 |
| A04         | 10           | 0.02    | 0.11 | 0.05  | 0.85       | 34.25              | 35.28 |
| A05         | 1.5          | 0.01    | 0.17 | 0.04  | 0.71       | 34.25              | 35.18 |
| A05         | 5            | 0.01    | 0.16 | 0.04  | 0.66       | 34.25              | 35.12 |
| A06         | 1.5          | 0.03    | 0.43 | 0.17  | 2.83       | 34.25              | 37.72 |
| A06         | 5            | 0.03    | 0.41 | 0.18  | 2.60       | 34.25              | 37.47 |
| A06         | 10           | 0.02    | 0.24 | 0.19  | 1.51       | 34.25              | 36.22 |
| A07         | 1.5          | 0.03    | 0.35 | 0.14  | 2.22       | 34.25              | 37.00 |
| A07         | 5            | 0.03    | 0.34 | 0.15  | 2.05       | 34.25              | 36.81 |
| A07         | 10           | 0.02    | 0.21 | 0.15  | 1.19       | 34.25              | 35.83 |
| A08         | 1.5          | 0.01    | 0.47 | 0.18  | 1.55       | 34.25              | 36.47 |
| A08         | 5            | 0.01    | 0.45 | 0.18  | 1.44       | 34.25              | 36.34 |
| A08         | 10           | 0.01    | 0.27 | 0.19  | 0.97       | 34.25              | 35.69 |
| A09         | 1.5          | 0.03    | 2.02 | 0.63  | 1.85       | 34.25              | 38.78 |
| A09         | 5            | 0.03    | 1.50 | 0.64  | 1.79       | 34.25              | 38.21 |
| A09         | 10           | 0.02    | 0.72 | 0.73  | 1.60       | 34.25              | 37.32 |
| A09         | 15           | 0.01    | 0.49 | 0.85  | 1.39       | 34.25              | 36.99 |
| A10         | 1.5          | 0.00    | 0.66 | 0.12  | 0.40       | 34.47              | 35.66 |
| A10         | 5            | 0.00    | 0.62 | 0.12  | 0.38       | 34.47              | 35.60 |
| A11         | 1.5          | 0.02    | 2.56 | 0.52  | 1.35       | 34.25              | 38.71 |
| A11         | 5            | 0.02    | 1.91 | 0.54  | 1.31       | 34.25              | 38.03 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2026 - 2030

10th Highest Daily FSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | YLEPP | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|-------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.20 | 0.30  | 4.58       | 60.34              | 65.45 |
| A01         | 5            | 0.01    | 0.00 | 0.00  | 5.02       | 60.68              | 65.72 |
| A02         | 1.5          | 0.01    | 0.66 | 1.26  | 0.11       | 60.68              | 62.72 |
| A02         | 5            | 0.01    | 0.52 | 1.29  | 0.11       | 60.68              | 62.61 |
| A02         | 10           | 0.00    | 0.25 | 1.38  | 0.05       | 60.68              | 62.36 |
| A02         | 15           | 0.02    | 0.03 | 0.49  | 0.34       | 61.56              | 62.44 |
| A03         | 1.5          | 0.05    | 0.00 | 0.00  | 1.71       | 60.68              | 62.46 |
| A03         | 5            | 0.03    | 0.00 | 0.00  | 1.59       | 60.68              | 62.31 |
| A03         | 10           | 0.03    | 0.00 | 0.01  | 0.44       | 61.56              | 62.04 |
| A04         | 1.5          | 0.03    | 0.04 | 0.06  | 0.42       | 60.68              | 61.24 |
| A04         | 5            | 0.03    | 0.04 | 0.06  | 0.41       | 60.68              | 61.23 |
| A04         | 10           | 0.02    | 0.04 | 0.06  | 0.30       | 60.68              | 61.11 |
| A05         | 1.5          | 0.00    | 0.00 | 0.00  | 0.05       | 60.68              | 60.74 |
| A05         | 5            | 0.00    | 0.00 | 0.00  | 0.04       | 60.68              | 60.73 |
| A06         | 1.5          | 0.03    | 0.23 | 0.45  | 0.71       | 60.43              | 61.86 |
| A06         | 5            | 0.03    | 0.20 | 0.46  | 0.71       | 60.43              | 61.83 |
| A06         | 10           | 0.02    | 0.08 | 0.48  | 0.61       | 60.43              | 61.64 |
| A07         | 1.5          | 0.04    | 0.17 | 0.35  | 1.07       | 60.43              | 62.05 |
| A07         | 5            | 0.03    | 0.15 | 0.35  | 1.04       | 60.43              | 62.00 |
| A07         | 10           | 0.02    | 0.07 | 0.37  | 0.87       | 60.43              | 61.76 |
| A08         | 1.5          | 0.01    | 0.15 | 0.56  | 0.24       | 60.68              | 61.64 |
| A08         | 5            | 0.01    | 0.14 | 0.56  | 0.22       | 60.68              | 61.62 |
| A08         | 10           | 0.01    | 0.04 | 0.39  | 0.36       | 60.68              | 61.48 |
| A09         | 1.5          | 0.04    | 0.02 | 0.10  | 0.86       | 62.11              | 63.12 |
| A09         | 5            | 0.01    | 0.72 | 1.44  | 0.15       | 60.43              | 62.75 |
| A09         | 10           | 0.01    | 0.27 | 1.74  | 0.07       | 60.43              | 62.52 |
| A09         | 15           | 0.03    | 0.02 | 0.15  | 0.96       | 61.56              | 62.72 |
| A10         | 1.5          | 0.00    | 0.06 | 0.01  | 0.15       | 60.88              | 61.11 |
| A10         | 5            | 0.00    | 0.05 | 0.01  | 0.15       | 60.88              | 61.10 |
| A11         | 1.5          | 0.01    | 0.89 | 0.96  | 0.07       | 60.68              | 62.61 |
| A11         | 5            | 0.01    | 0.66 | 1.00  | 0.07       | 60.68              | 62.42 |

Appendix 3.12 Detail Prediction Result (Construction Phase)

Year 2026 - 2030

Annual FSP Concentration ( $\mu\text{g}/\text{m}^3$ )

| Receptor ID | Height (mAG) | Vehicle | Dust | YLEPP | Industrial | Ambient Background | Total |
|-------------|--------------|---------|------|-------|------------|--------------------|-------|
| A01         | 1.5          | 0.02    | 0.06 | 0.08  | 4.71       | 24.32              | 29.19 |
| A01         | 5            | 0.02    | 0.06 | 0.08  | 4.45       | 24.32              | 28.93 |
| A02         | 1.5          | 0.04    | 0.28 | 0.43  | 0.48       | 24.32              | 25.55 |
| A02         | 5            | 0.03    | 0.22 | 0.44  | 0.48       | 24.32              | 25.50 |
| A02         | 10           | 0.02    | 0.09 | 0.48  | 0.45       | 24.32              | 25.37 |
| A02         | 15           | 0.01    | 0.06 | 0.55  | 0.44       | 24.32              | 25.38 |
| A03         | 1.5          | 0.05    | 0.04 | 0.07  | 0.84       | 24.32              | 25.33 |
| A03         | 5            | 0.04    | 0.04 | 0.07  | 0.79       | 24.32              | 25.26 |
| A03         | 10           | 0.02    | 0.03 | 0.07  | 0.65       | 24.32              | 25.10 |
| A04         | 1.5          | 0.02    | 0.02 | 0.04  | 0.35       | 24.32              | 24.75 |
| A04         | 5            | 0.02    | 0.02 | 0.04  | 0.32       | 24.32              | 24.72 |
| A04         | 10           | 0.01    | 0.02 | 0.04  | 0.23       | 24.32              | 24.63 |
| A05         | 1.5          | 0.01    | 0.03 | 0.04  | 0.23       | 24.32              | 24.63 |
| A05         | 5            | 0.01    | 0.03 | 0.04  | 0.21       | 24.32              | 24.61 |
| A06         | 1.5          | 0.03    | 0.08 | 0.14  | 0.64       | 24.32              | 25.21 |
| A06         | 5            | 0.03    | 0.07 | 0.15  | 0.62       | 24.32              | 25.19 |
| A06         | 10           | 0.02    | 0.04 | 0.16  | 0.52       | 24.32              | 25.06 |
| A07         | 1.5          | 0.03    | 0.07 | 0.12  | 0.45       | 24.32              | 24.99 |
| A07         | 5            | 0.02    | 0.06 | 0.12  | 0.44       | 24.32              | 24.96 |
| A07         | 10           | 0.02    | 0.04 | 0.13  | 0.36       | 24.32              | 24.86 |
| A08         | 1.5          | 0.01    | 0.09 | 0.16  | 0.41       | 24.32              | 24.99 |
| A08         | 5            | 0.01    | 0.08 | 0.16  | 0.39       | 24.32              | 24.96 |
| A08         | 10           | 0.01    | 0.04 | 0.16  | 0.32       | 24.32              | 24.85 |
| A09         | 1.5          | 0.03    | 0.34 | 0.48  | 0.50       | 24.32              | 25.67 |
| A09         | 5            | 0.03    | 0.25 | 0.50  | 0.48       | 24.32              | 25.58 |
| A09         | 10           | 0.02    | 0.11 | 0.59  | 0.44       | 24.32              | 25.48 |
| A09         | 15           | 0.01    | 0.08 | 0.72  | 0.39       | 24.32              | 25.52 |
| A10         | 1.5          | 0.00    | 0.12 | 0.10  | 0.11       | 24.48              | 24.81 |
| A10         | 5            | 0.00    | 0.11 | 0.10  | 0.10       | 24.48              | 24.79 |
| A11         | 1.5          | 0.02    | 0.44 | 0.43  | 0.39       | 24.32              | 25.60 |
| A11         | 5            | 0.02    | 0.32 | 0.44  | 0.38       | 24.32              | 25.48 |