

39. 자원봉사자 현황

단위 : 명Unit : person

| 연 별<br>Year | 성 별 by Gender |          | 연령 별 by Age |       |
|-------------|---------------|----------|-------------|-------|
|             | 남 Male        | 여 Female |             | 19세이하 |
| 2006        | 5,233         | 1,736    | 3,497       | 790   |
| 2007        | 10,100        | 3,630    | 6,470       | 1,705 |
| 2008        | 13,470        | 5,227    | 8,243       | 3,025 |
| 2009        | 21,134        | 9,537    | 11,597      | 4,783 |

Volunteers

| 연 별<br>Year | 연 령 별 by Age |       |       |       |       |
|-------------|--------------|-------|-------|-------|-------|
|             | 20~29        | 30~39 | 40~49 | 50~59 | 60세이상 |
| 2006        | 224          | 1,072 | 1,165 | 1,122 | 860   |
| 2007        | 1,292        | 1,881 | 2,312 | 1,627 | 1,283 |
| 2008        | 1,469        | 2,782 | 2,753 | 2,064 | 1,377 |
| 2009        | 3,332        | 3,174 | 4,402 | 3,119 | 2,324 |

자료 : 여성복지과Source : Division of Women`s Welfare

XIII. 환경  
ENVIRONMENT

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## XII. 환경 ENVIRONMENT

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|------------------------|----------------------------------------------------------------------------------------|
| 1. 환경오염물질 배출시설         | Environmental Pollutant Emitting Facilities                                            |
| 2. 환경오염 배출시설 단속 및 행정조치 | Inspection and Administrative Measures for Environmental Pollutant Emitting Facilities |
| 3. 대기오염                | Air Pollutant Emission                                                                 |
| 4. 쓰레기수거               | Waste Collection and Disposal                                                          |
| 5. 생활폐기물 매립지           | General Waste Landfill                                                                 |
| 6. 하수분뇨발생량 및 처리현황      | Sewage & Night Soil Discharge and Treatment                                            |
| 7. 하수종말 처리장            | Sewage Treatment Plants                                                                |

1. 환경오염물질 배출사업장

단위 : 개소

| 연 별<br>Year |     | 대 기 (가스, 먼지, 매연 및 악취)<br>Air pollution(gas, dust, soot and bad smell) |                |                |                |                |
|-------------|-----|-----------------------------------------------------------------------|----------------|----------------|----------------|----------------|
|             |     | 1 종<br>Class 1                                                        | 2 종<br>Class 2 | 3 종<br>Class 3 | 4 종<br>Class 4 | 5 종<br>Class 5 |
| 2001        | 224 | -                                                                     | 6              | 13             | 14             | 191            |
| 2002        | 172 | -                                                                     | 5              | 8              | 12             | 147            |
| 2003        | 215 | -                                                                     | 5              | 6              | 14             | 190            |
| 2004        | 202 | -                                                                     | 6              | 9              | 53             | 134            |
| 2005        | 202 | -                                                                     | 6              | 9              | 53             | 134            |
| 2006        | 186 | 1                                                                     | 7              | 10             | 57             | 111            |
| 2007        | 192 | 1                                                                     | 8              | 10             | 58             | 115            |
| 2008        | 194 | 2                                                                     | 7              | 11             | 54             | 120            |
| 2009        | 202 | 2                                                                     | 7              | 11             | 56             | 125            |

자료 : 환경위생과

2. 환경오염 배출사업장 단속 및 행정조치

단위 : 개소, 건

| 연 별<br>Year | 배출업소<br>Number of<br>pollutant<br>emitting<br>facilities | 단속업소<br>Number of<br>establishment<br>inspected | 위반업소<br>Number of<br>violations | 행정처분내역         |                            |
|-------------|----------------------------------------------------------|-------------------------------------------------|---------------------------------|----------------|----------------------------|
|             |                                                          |                                                 |                                 | 경고<br>Warnings | 개선명령<br>Order of<br>repair |
| 2005        | 641                                                      | 473                                             | 12                              | 4              | 1                          |
| 2006        | 654                                                      | 411                                             | 11                              | 5              | 1                          |
| 2007        | 490                                                      | 364                                             | 12                              | 1              | 4                          |
| 2008        | 454                                                      | 457                                             | 6                               | -              | 4                          |
| 2009        | 505                                                      | 310                                             | 5                               | 1              | 2                          |

자료 : 환경위생과

주 : 병과고발은 행정처분과 고발이 병행된 것

Environmental Pollutant Emitting Facilities

Unit : number(Place)

|     | 수 질 (폐수) Water pollution (waste water) |                |                |                |                | 소음 및 진동<br>Noise and<br>Vibration |
|-----|----------------------------------------|----------------|----------------|----------------|----------------|-----------------------------------|
|     | 1 종<br>Class 1                         | 2 종<br>Class 2 | 3 종<br>Class 3 | 4 종<br>Class 4 | 5 종<br>Class 5 |                                   |
| 399 | -                                      | -              | 4              | 3              | 392            | 162                               |
| 374 | --                                     | 1              | 3              | 3              | 367            | 125                               |
| 286 | --                                     | 1              | 4              | 3              | 278            | 131                               |
| 288 | --                                     | 1              | 3              | 6              | 278            | 157                               |
| 288 | -                                      | 1              | 3              | 6              | 278            | 165                               |
| 291 | 1                                      | 1              | 3              | 6              | 280            | 177                               |
| 298 | 1                                      | 1              | 3              | 7              | 286            | 186                               |
| 303 | 1                                      | 2              | 3              | 7              | 290            | 196                               |
| 303 | 1                                      | 2              | 3              | 7              | 290            | 196                               |

Source : Division of Environment & Sanitation

Inspection and Administrative Measures for  
Environmental Pollutant Emitting Facilities

Unit : Number(Place), Case

| Administrative actions taken    |                              |                            |                 |                    |              | 병과고발<br>Accusation<br>with<br>Administrative<br>measures |
|---------------------------------|------------------------------|----------------------------|-----------------|--------------------|--------------|----------------------------------------------------------|
| 조업정지<br>Temporary<br>suspension | 사용금지<br>Prohibition<br>onuse | 허가취소<br>License<br>revoked | 폐쇄명령<br>Abolish | 순수고발<br>Accusation | 기 타<br>Other |                                                          |
| 5                               | -                            | -                          | 2               | -                  | 7            | -                                                        |
| 2                               | 3                            | -                          | -               | -                  | 8            | -                                                        |
| -                               | 2                            | -                          | 5               | -                  | -            | -                                                        |
| 1                               | -                            | -                          | 1               | -                  | -            | 2                                                        |
| -                               | 1                            | -                          | 1               | -                  | -            | 2                                                        |

Source : Division of Environment & Sanitation

3. 대기오염

| 연월<br>Year & month | 아황산가스<br>(SO <sub>2</sub> )<br>(ppm / year) | 일산화탄소<br>(CO)<br>(ppm / 8hours) | 이산화질소<br>(NO <sub>2</sub> )<br>(ppm / year) |
|--------------------|---------------------------------------------|---------------------------------|---------------------------------------------|
| 2005               | 0.005                                       | 0.6                             | 0.013                                       |
| 2006               | 0.005                                       | 0.7                             | 0.013                                       |
| 2007               | 0.006                                       | 0.7                             | 0.014                                       |
| 2008               | 0.006                                       | 0.6                             | 0.013                                       |
| 2009               | 0.005                                       | 0.5                             | 0.016                                       |
| 1 월                | 0.006                                       | 0.7                             | 0.018                                       |
| 2 월                | 0.007                                       | 0.7                             | 0.02                                        |
| 3 월                | 0.006                                       | 0.6                             | 0.018                                       |
| 4 월                | 0.007                                       | 0.6                             | 0.019                                       |
| 5 월                | 0.005                                       | 0.5                             | 0.016                                       |
| 6 월                | 0.003                                       | 0.4                             | 0.014                                       |
| 7 월                | 0.003                                       | 0.4                             | 0.01                                        |
| 8 월                | 0.004                                       | 0.4                             | 0.008                                       |
| 9 월                | 0.005                                       | 0.5                             | 0.013                                       |
| 10 월               | 0.005                                       | 0.5                             | 0.019                                       |
| 11 월               | 0.004                                       | 0.6                             | 0.018                                       |
| 12 월               | 0.004                                       | 0.6                             | 0.016                                       |

자료 : 환경위생과

Air Pollutant Emission

| 먼지<br>(Dust)<br>( $\mu$ g/m <sup>3</sup> / year) | 오존<br>(O <sub>3</sub> )<br>(ppm / 8hours) | 산성비<br>(Acid rain)<br>(pH) | Year & Month |
|--------------------------------------------------|-------------------------------------------|----------------------------|--------------|
| 47                                               | 0.018                                     |                            | 2005         |
| 50                                               | 0.023                                     |                            | 2006         |
| 54                                               | 0.019                                     |                            | 2007         |
| 48                                               | 0.023                                     |                            | 2008         |
| 51                                               | 0.026                                     |                            | 2009         |
| 55                                               | 0.018                                     |                            | Jan.         |
| 74                                               | 0.02                                      |                            | Feb.         |
| 57                                               | 0.03                                      |                            | Mar.         |
| 60                                               | 0.036                                     |                            | Apr.         |
| 51                                               | 0.035                                     |                            | May.         |
| 50                                               | 0.039                                     |                            | Jun.         |
| 30                                               | 0.028                                     |                            | Jul.         |
| 32                                               | 0.027                                     |                            | Aug.         |
| 39                                               | 0.027                                     |                            | Sep.         |
| 57                                               | 0.025                                     |                            | Oct.         |
| 45                                               | 0.016                                     |                            | Nov.         |
| 64                                               | 0.014                                     |                            | Dec.         |

Source : Division of Environment & Sanitation

4. 쓰레기수거

단위 : 명, 톤, 대

| 연 별<br><br>Year | 행정구역(A)<br>Administrative area |         | 청소구역(B)<br>Waste collected area |         | 수거지<br>인구율<br>(B/A)(%)<br>Population<br>ratio in the<br>waste-collec<br>ted area | 배출량(C)<br>(톤/일)<br>Amount<br>of<br>discharged<br>waste | 처리량(D)<br>(톤/일)<br>Amount of<br>waste<br>disposal | 수거율<br>(D/C)<br>(%)<br>Disposal<br>ratio |
|-----------------|--------------------------------|---------|---------------------------------|---------|----------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------|------------------------------------------|
|                 | 면적                             | 인구      | 면적                              | 인구      |                                                                                  |                                                        |                                                   |                                          |
|                 | Area                           | Pop(A)  | Area                            | Pop(B)  |                                                                                  |                                                        |                                                   |                                          |
| 2001            | 377.87                         | 277,680 | 357.00                          | 273,940 | 98.7                                                                             | 4,421.3                                                | 4,421.3                                           | 100                                      |
| 2002            | 378.00                         | 273,086 | 358.00                          | 268,535 | 98.3                                                                             | 3,124.4                                                | 3,124.4                                           | 100                                      |
| 2003            | 378.19                         | 269,865 | 357.00                          | 265,595 | 98.4                                                                             | 4,178.9                                                | 4,178.9                                           | 100                                      |
| 2004            | 378.06                         | 266,541 | 358.00                          | 260,634 | 97.8                                                                             | 3,927.6                                                | 3,927.6                                           | 100                                      |
| 2005            | 382.23                         | 264,750 | 382.00                          | 264,750 | 100.0                                                                            | 5,569.0                                                | 5,569.0                                           | 100                                      |
| 2006            | 382.26                         | 263,194 | 357.70                          | 255,971 | 97.3                                                                             | 215.1                                                  | 215.0                                             | 100                                      |
| 2007            | 390.09                         | 263,231 | 338.00                          | 258,000 | 88.0                                                                             | 195.8                                                  | 195.8                                             | 100                                      |
| 2008            | 390.13                         | 267,146 | 390.13                          | 267,146 | 100.0                                                                            | 207.3                                                  | 207.3                                             | 100                                      |
| 2009            | 390.20                         | 270,329 | 390.20                          | 270,329 | 100.0                                                                            | 217.9                                                  | 217.9                                             | 100                                      |

| 연 별<br><br>Year | 수거처리 By type of waste disposal |                |                         |                      |                               |                              |                 |                |                         |                      |                               |                          |
|-----------------|--------------------------------|----------------|-------------------------|----------------------|-------------------------------|------------------------------|-----------------|----------------|-------------------------|----------------------|-------------------------------|--------------------------|
|                 | 폐 기 물 Wastes                   |                |                         |                      |                               |                              |                 |                |                         |                      |                               |                          |
|                 | 건설폐기물<br>Construction wastes   |                |                         |                      |                               | 지정폐기물<br>Specified wastes    |                 |                |                         |                      |                               |                          |
|                 | 발생량<br>Gener-<br>-ation        | 매립<br>Landfill | 소각<br>Incine<br>-ration | 재활용<br>Recycl<br>ing | 해역<br>배출<br>Dumping<br>at sea | 전년도<br>이월량<br>Carry-<br>over | 해당<br>연도<br>발생량 | 매립<br>Landfill | 소각<br>Incine<br>-ration | 재활용<br>Recycl<br>ing | 해역<br>배출<br>Dumping<br>at sea | 기타<br>보관량<br>Custo<br>dy |
| 2001            | 1,051.3                        | 6.7            | 0.5                     | 1,044.1              | ...                           | 0                            | 1,613.0         | 0              | 539                     | 1,074                | ...                           | 0                        |
| 2002            | 784.1                          | 15.9           | 8.6                     | 759.6                | ...                           | 0                            | 1,128.3         | 0              | 184                     | 933                  | ...                           | 12                       |
| 2003            | 969.8                          | 5.5            | 13.3                    | 951.0                | ...                           | 0                            | 1,429.1         | 0              | 257                     | 1,172                | ...                           | 0                        |
| 2004            | 1,072.1                        | 0.2            | 12.2                    | 1,059.7              | ...                           | 0                            | 1,021.5         | 0              | 198                     | 809                  | ...                           | 15                       |
| 2005            | 969.0                          | 4.0            | 6.0                     | 959.0                | ...                           | 0                            | 2,800.0         | 0              | 811                     | 1,989                | ...                           | 0                        |
| 2006            | 941.0                          | 1.0            | 7.0                     | 933.0                | ...                           | 0                            | ...             | 0              | ...                     | ...                  | ...                           | ...                      |
| 2007            | 901.1                          | 0.6            | 6.2                     | 894.3                | -                             | 0                            | 339.8           | 126            | 46                      | 91                   | -                             | 77                       |
| 2008            | 1,213.7                        | 3.9            | 4.9                     | 1,204.9              | -                             | 0.5                          | 148.4           | 64.9           | 17.8                    | 58.8                 | -                             | 7.4                      |
| 2009            | 1,213.7                        | 3.9            | 4.9                     | 1,204.9              | -                             | 0.5                          | 148.4           | 64.9           | 17.8                    | 58.8                 | -                             | 7.4                      |

자료 : 청소과  
주 : 외국인포함

Waste Collection and Disposal

Unit : Person, Ton, Each

| 수거처리 By type of waste disposal |                     |                         |                           |                                   |              |                          |                     |                         |                       |                                  |                     |                         |                       |                               |
|--------------------------------|---------------------|-------------------------|---------------------------|-----------------------------------|--------------|--------------------------|---------------------|-------------------------|-----------------------|----------------------------------|---------------------|-------------------------|-----------------------|-------------------------------|
|                                | 매립<br>Land<br>-fill | 소각<br>Incine<br>-ration | 재활<br>용<br>Recy-<br>cling | 해역<br>배출<br>Dumpi<br>ng<br>at sea | 기타<br>Others | 폐기물 Wastes               |                     |                         |                       |                                  |                     |                         |                       |                               |
|                                |                     |                         |                           |                                   |              | 생활폐기물<br>Domestic wastes |                     |                         |                       | 사업장배출시설계폐기물<br>Industrial wastes |                     |                         |                       |                               |
|                                |                     |                         |                           |                                   |              | 발생량<br>Gener-<br>-ation  | 매립<br>Land<br>-fill | 소각<br>Incine<br>-ration | 재활용<br>Recy-<br>cling | 발생량<br>Gener-<br>-ation          | 매립<br>Land<br>-fill | 소각<br>Incine<br>-ration | 재활용<br>Recy-<br>cling | 해역<br>배출<br>Dumping<br>at sea |
| 4,421.3                        | 375.7               | 946.4                   | 2,944.2                   | ...                               | 155          | 287.0                    | 160.0               | 0.0                     | 127.0                 | 1,470.0                          | 209.0               | 407.0                   | 699.0                 | 155.0                         |
| 3,124.4                        | 243.9               | 588.4                   | 2,081.2                   | ...                               | 211          | 196.0                    | 109.0               | 0.0                     | 87.0                  | 1,016.0                          | 119.0               | 396.0                   | 302.0                 | 199.0                         |
| 4,178.9                        | 282.5               | 689.6                   | 2,960.8                   | ...                               | 246          | 244.0                    | 177.0               | 0.0                     | 67.0                  | 1,536.0                          | 100.0               | 419.0                   | 771.0                 | 246.0                         |
| 3,927.6                        | 275.2               | 593.0                   | 2,770.4                   | ...                               | 289          | 230.0                    | 157.0               | 0.0                     | 73.0                  | 1,604.0                          | 118.0               | 383.0                   | 829.0                 | 274.0                         |
| 5,569.0                        | 182.0               | 1,228.0                 | 3,964.0                   | ...                               | 195          | 204.0                    | 89.0                | 0.0                     | 115.0                 | 1,596.0                          | 89.0                | 411.0                   | 901.0                 | 195.0                         |
| 215.1                          | 95.0                | -                       | 120.1                     | ...                               | -            | 215.0                    | 95.0                | -                       | 120.0                 | ...                              | ...                 | ...                     | ...                   | ...                           |
| 195.8                          | 109.4               | -                       | 86.4                      | ...                               | -            | 195.8                    | 109.4               | -                       | 88.3                  | 1,947.0                          | 158.9               | 472.3                   | 1,155.5               | 161.2                         |
| 207.3                          | 106.9               | -                       | 100.4                     | ...                               | -            | 207.3                    | 106.9               | -                       | 100.4                 | 2,036.1                          | 106.2               | 376.0                   | 1,449.0               | 104.9                         |
| 584.8                          | 27.2                | 114.2                   | 443.4                     | -                                 | -            | 217.9                    | 107.9               | -                       | 110.6                 | 2,825.2                          | 447.6               | 54.9                    | 2,138.0               | 184.7                         |

| 지방자치단체<br>Local gov. |              |          |                             | 대행업체<br>Service company |              |          |                             | 자가처리업소<br>Self-managed workplace |              |          |                             |
|----------------------|--------------|----------|-----------------------------|-------------------------|--------------|----------|-----------------------------|----------------------------------|--------------|----------|-----------------------------|
| 인원                   | 장비 Equipment |          |                             | 인원                      | 장비 Equipment |          |                             | 인원                               | 장비 Equipment |          |                             |
|                      | 차량           | 손수레      | 중장비<br>Heavy equip-<br>ment |                         | 차량           | 손수레      | 중장비<br>Heavy equip-<br>ment |                                  | 차량           | 손수레      | 중장비<br>Heavy equip-<br>ment |
| Workers              | Motorcars    | Handcars |                             | Workers                 | Motorcars    | Handcars |                             | Workers                          | Motorcars    | Handcars |                             |
| 39                   | 17           | -        | -                           | 375                     | 70           | 237      | -                           | -                                | -            | -        | -                           |
| 39                   | 11           | -        | -                           | 349                     | 64           | 235      | -                           | -                                | -            | -        | -                           |
| 24                   | 45           | -        | 5                           | 342                     | 69           | 204      | -                           | -                                | -            | -        | -                           |
| 93                   | 83           | -        | 1                           | 308                     | 89           | 190      | 5                           | -                                | -            | -        | -                           |
| 34                   | 14           | -        | -                           | 234                     | 43           | 190      | 2                           | -                                | -            | -        | -                           |
| 42                   | 9            | -        | 7                           | 223                     | 34           | 85       | -                           | -                                | -            | -        | -                           |
| 41                   | 17           | -        | 2                           | 200                     | 37           | -        | 5                           | -                                | -            | -        | -                           |
| 40                   | 14           | -        | -                           | 208                     | 45           | 92       | -                           | -                                | -            | -        | -                           |
| 248                  | 61           | 92       | 7                           | 208                     | 46           | 92       |                             |                                  |              |          |                             |

Source : Cleaning Division

5. 생활폐기물 매립지

| 연 별<br>Year | 개 소<br>Number of landfills | 면 적 (㎡)<br>Area of landfills |
|-------------|----------------------------|------------------------------|
| 2001        | 1                          | 277,920                      |
| 2002        | 1                          | 278,000                      |
| 2003        | 1                          | 278,000                      |
| 2004        | 1                          | 283,000                      |
| 2005        | 1                          | 283,000                      |
| 2006        | 1                          | 238,700                      |
| 2007        | 1                          | 238,700                      |
| 2008        | 1                          | 238,700                      |
| 2009        | 1                          | 288,770                      |

자료 : 청소과

6. 하수 및 분뇨발생량 및 처리현황

| 연 별<br>Year | 하수 및 분뇨 발생량 Amount of Sewage & night soil generated |                                               |                                               |                      |                     |                     |
|-------------|-----------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------|---------------------|---------------------|
|             | 하 수 sewage                                          |                                               |                                               | 분뇨 night soil        |                     |                     |
|             | 발 생 량 Amount generated                              |                                               |                                               | 발생량 Amount generated |                     |                     |
|             |                                                     | 하수처리구역 내<br>inner area of<br>sewage treatment | 하수처리구역 외<br>Outer area of<br>sewage treatment |                      | 수거식<br>Squat toilet | 수세식<br>Flush toilet |
| 2005        | 95,104                                              | 78,644                                        | 16,460                                        | 130                  | 4                   | 126                 |
| 2006        | 96,233                                              | 79,848                                        | 16,385                                        | 128                  | 4                   | 124.2               |
| 2007        | 191,380                                             | 166,420                                       | 24,960                                        | 153                  | 2                   | 151.0               |
| 2008        | 82,900                                              | 70,842                                        | 12,058                                        | 169                  | -                   | 169.0               |
| 2009        | 79,591                                              | 71,041                                        | 8,550                                         | 267                  | -                   | 266.9               |

자료 : 하수과

하수 · 분뇨발생량 및 처리현황(속)

| 연 별<br><br>Year | 분뇨처리시설 Night soil treatment facility |                       |                     |                  |                                      |                     |                  |                                                |                                                        |                                 |
|-----------------|--------------------------------------|-----------------------|---------------------|------------------|--------------------------------------|---------------------|------------------|------------------------------------------------|--------------------------------------------------------|---------------------------------|
|                 | 시설명<br><br>facility                  | 시설용량(㎡/일)<br>Capacity |                     |                  | 처리량(㎡/일)<br>Amount of waste dispisal |                     |                  | 연 계<br>처리장명<br>Relative<br>treatment<br>plants | 사업비<br>(백 만 원)<br>Operation<br>expense<br>(Millionwon) | 운영<br>방법<br>Operation<br>method |
|                 |                                      | 물 리 적<br>Mech-anical  | 생물학적<br>Bio-logical | 고 도<br>Adva-nced | 물 리 적<br>Mech-anical                 | 생물학적<br>Bio-logical | 고 도<br>Adva-nced |                                                |                                                        |                                 |
|                 |                                      |                       |                     |                  |                                      |                     |                  |                                                |                                                        |                                 |
| 2005            | 군산분뇨처리장                              | -                     | 200                 | -                | -                                    | 153.0               | -                | 군산하수정화처리장                                      | 5,200                                                  | 민간위탁                            |
| 2006            | 군산분뇨처리장                              | ...                   | ...                 | ...              | ...                                  | ...                 | ...              | 군산하수정화처리장                                      | ...                                                    | ...                             |
| 2007            | 군산분뇨처리장                              | -                     | 200                 | -                | -                                    | 153.0               | -                | 군산하수정화처리장                                      | 5,200                                                  | 민간위탁                            |
| 2008            | 군산분뇨처리장                              | -                     | 200                 | -                | -                                    | 136.6               | -                | -                                              | 5,181                                                  | 민간위탁                            |
| 2009            | 군산분뇨처리장                              | -                     | 200                 | -                | -                                    | 127.4               | -                | 군산하수정화처리장                                      | 5,181                                                  | 민간위탁                            |

자료 : 하수과

General Waste Landfill

| 총매립용량(㎡)<br>Total landfill capacity | 기매립량(㎡)<br>Current landfill amount | 잔여매립가능량(㎡)<br>Residual land-fill capacity |
|-------------------------------------|------------------------------------|-------------------------------------------|
| 2,562,000                           | 902,277                            | 1,659,723                                 |
| 2,562,000                           | 1,145,214                          | 1,416,786                                 |
| 2,562,000                           | 1,232,600                          | 1,329,400                                 |
| 2,562,000                           | 1,237,000                          | 1,325,000                                 |
| 2,562,000                           | 1,294,700                          | 1,267,300                                 |
| 2,562,000                           | 1,386,857                          | 1,175,143                                 |
| 2,562,000                           | 1,541,855                          | 1,020,145                                 |
| 2,562,000                           | 1,620,000                          | 942,000                                   |
| 2,562,000                           | 1,675,733                          | 886,267                                   |

Source : Cleaning Division

Sewage & Night Soil Discharge and Treatment

| 하수 및 분뇨 발생량 Amount of Sewage & night soil generated |                                |                                      |                          |                                                |                                      |
|-----------------------------------------------------|--------------------------------|--------------------------------------|--------------------------|------------------------------------------------|--------------------------------------|
| 분뇨 Night soil                                       |                                |                                      |                          |                                                |                                      |
| 처리대상량(㎡/일) Target treatment volume(㎡/day)           |                                |                                      | 처리대상 제외 Out of Treatment |                                                |                                      |
|                                                     | 수거분뇨<br>Nightsoil<br>Collected | 정 화조오니<br>Sludge from<br>septic tank |                          | 오 · 벽지 분뇨<br>night soil of<br>the back country | 정 화조등에서<br>처리<br>Treatment of Sludge |
| 126                                                 | -                              | 126                                  | 4                        | 4                                              | -                                    |
| 124                                                 | -                              | 124                                  | -                        | -                                              | -                                    |
| 153                                                 | 2                              | 151                                  | -                        | -                                              | -                                    |
| ...                                                 | ...                            | ...                                  | ...                      | ...                                            | ...                                  |
| 127                                                 | ...                            | 127                                  | ...                      | -                                              | -                                    |

Source : Division of Sewage

Sewage & Night Soil Discharge and Treatment(Cont'd)

| 분뇨처리시설<br>Night soil treatment facility |                      |                       | 분뇨수집 · 운반업체<br>Company of night soil collection & delivery |                                     |                           |                               |                           |              |                         |
|-----------------------------------------|----------------------|-----------------------|------------------------------------------------------------|-------------------------------------|---------------------------|-------------------------------|---------------------------|--------------|-------------------------|
| 방류수역<br>Waters of disposal              |                      |                       | 업 체 수<br>No. of<br>company                                 | 시설(차량)현 황(대수)<br>Facility(Vehicles) |                           |                               |                           |              | 종사인원<br>No.of<br>worker |
| 지류<br>Branch<br>stream                  | 본류<br>Main<br>stream | 수계<br>Water<br>System |                                                            |                                     | 3톤이하<br>Less than<br>3ton | 4.5톤이하<br>Less than<br>4.5ton | 8톤이하<br>less than<br>8ton | 기타<br>Others |                         |
| -                                       | -                    | 서해                    | 10                                                         | 24                                  | 1                         | 5                             | 12                        | 6            | 35                      |
| ...                                     | ...                  | 서해                    | 11                                                         | 22                                  | 1                         | 4                             | 12                        | 5            | 21                      |
| -                                       | -                    | 서해                    | 11                                                         | 22                                  | 1                         | 4                             | 12                        | 5            | 33                      |
| -                                       | -                    | 서해                    | 10                                                         | 22                                  | 1                         | 4                             | 11                        | 6            | 34                      |
| -                                       | -                    | 서해                    | 10                                                         | 21                                  | 1                         | 2                             | 9                         | 9            | 16                      |

Source : Division of Sewage

7. 하수종말 처리장

| 연 별<br>Year | 시설명<br>(하수/마을)<br>facility | 소 재 지<br>location | 시설용량(하수/마을) (㎥/일)<br>Capacity of plants |                     |                 | 처리량(하수/마을) (㎥/일)<br>Treatment amount |                     |                 |         |
|-------------|----------------------------|-------------------|-----------------------------------------|---------------------|-----------------|--------------------------------------|---------------------|-----------------|---------|
|             |                            |                   | 물리적<br>Mech-anical                      | 생물학적<br>Bio-logical | 고도<br>Adva-nced | 물리적<br>Mech-anical                   | 생물학적<br>Bio-logical | 고도<br>Adva-nced |         |
| 2009        | (6/)                       |                   | 205,550                                 | 205,550             |                 | 168,487                              | 168,487             |                 |         |
|             | 군산                         | 소룡동 1584          | 200,000                                 | -                   | 200,000         | -                                    | 164,142             | -               | 164,142 |
|             | 대야                         | 대야면 산월리 27-15     | 1,900                                   | -                   | 1,900           | -                                    | 1,478               | -               | 1,478   |
|             | 옥서                         | 옥서면 옥봉리 1809-1    | 1,600                                   | -                   | 1,600           | -                                    | 1,300               | -               | 1,300   |
|             | 서수                         | 임피면 술산리 668-10    | 950                                     | -                   | 950             | -                                    | 712                 | -               | 712     |
|             | 회현                         | 회현면 대정리 762-1     | 550                                     | -                   | 550             | -                                    | 440                 | -               | 440     |
|             | 임피                         | 임피면 미원리 778       | 550                                     | -                   | 550             | -                                    | 415                 | -               | 415     |

Sewage Treatment Plants

| 처리<br>방법<br>Treatm-ent<br>method | 연계처리량(㎥/일) 하수/마을<br>Relative treatment plants |    |     |    | 가동<br>개시일<br>operati<br>on<br>start | 사업비<br>(백만원)<br>Operation<br>expense<br>(Million<br>won) | 운영<br>방법<br>Operat-ion<br>method | 방류수<br>소 독<br>방 법<br>Disinfe-ction | 방류수역<br>Waters of disposal |                      |                       | Year<br>&<br>City |
|----------------------------------|-----------------------------------------------|----|-----|----|-------------------------------------|----------------------------------------------------------|----------------------------------|------------------------------------|----------------------------|----------------------|-----------------------|-------------------|
|                                  | 분뇨                                            | 축산 | 침출수 | 기타 |                                     |                                                          |                                  |                                    | 지류<br>Branch<br>stream     | 본류<br>Main<br>stream | 수계<br>Water<br>System |                   |
| 표준<br>활성<br>슬러지                  | 200                                           | -  | 150 | -  | 1999.<br>10.1                       | 172,586                                                  | 민간<br>위탁                         | 염소<br>소독<br>uv소독                   | -                          | 금강                   | 서해                    | Gunsan<br>-si     |
| KIDEA                            | -                                             | -  | -   | -  | 2008.<br>6.25                       | 12,753                                                   | 민간<br>위탁                         | UV                                 | -                          | 만경강                  | 서해                    |                   |
| KIDEA                            | -                                             | -  | -   | -  | 2008.<br>6.25                       | 11,634                                                   | 민간<br>위탁                         | UV                                 | -                          | 만경강                  | 서해                    |                   |
| KIDEA                            | -                                             | -  | -   | -  | 2008.<br>6.25                       | 10,003                                                   | 민간<br>위탁                         | UV                                 | -                          | 만경강                  | 서해                    |                   |
| KIDEA                            | -                                             | -  | -   | -  | 2008.<br>6.25                       | 8,191                                                    | 민간<br>위탁                         | UV                                 | -                          | 만경강                  | 서해                    |                   |
| KIDEA                            | -                                             | -  | -   | -  | 2008.<br>6.25                       | 6,927                                                    | 민간<br>위탁                         | UV                                 | -                          | 만경강                  | 서해                    |                   |

XIV. 교육 및 문화  
EDUCATION AND CULTURE