|  | _                                  |                          |        | ,                |             |              |        |   |       |        | <br>     |          |          | ,                                      |        |        |          | ····  |  |       |        |       |        |   |       |       | T     |       | _     |  |       |        | ~~ |
|--|------------------------------------|--------------------------|--------|------------------|-------------|--------------|--------|---|-------|--------|----------|----------|----------|--|--------|--------|----------|-------|--|-------|--------|-------|--------|---|-------|-------|-------|-------|-------|--|-------|--------|----|
| 8  |                                    | Judgement                | ă      | ĕ                | 矣           | ă            | ş      |   | ğ     | ð      | 8        | 300      | ١        |  | ğ      | ğ      | 췽        | 乡     |  | New   | ğ      | ğ     | ğ      |   | ă     | 힑     | ă     | ĕ     | ŏ     |  | ŏ     | ĕ      |    |
| Pipe adequacy for 2015   |                                    |                          | 5217%  | 4096%            | 4485%       | 4696%        | 5588%  |   | 2153% | 7990%  | 95%      | 173%     |          |  | 1322%  | 3035%  | 4308%    | 3681% |  | 2396% | 1131%  | 1072% | 4090%  |   | 2273% | 1887% | 1260% | 787%  | 1411% |  | 2693% | 12299% |    |
| adequac  |                                    | 02.0 P.H.F<br>in 1./5    | 63     | 0.3              | 0.3         | 0.3          | 0.3    |   |       | 63     | 8.64     | 49.3     |          |  | 1.2    | 1.2    | 1,2      | 2     |  | 1.2   | 7.     | 1.2   | 7      |   | 3.1   | 3.1   | 3.1   | 3.1   | 3.1   |  | 9.0   | 9.0    |    |
| ğ  |                                    | Contributi ()<br>ng Popn | S      | 25               | 25          | 22           | 25     |   | 23    | ध      | 4780     | 4730     |          | 1                                      | 611    | 119    | 119      | 61    |  | 119   | 51     | 119   | 51     |   | 293   | 293   | 293   | 293   | 293   |  | 55    | 55     |    |
|  |                                    | Judgement                | ğ      | Ş.               | Ж           | Š            | ŏ      | - | ğ     | ĕ      | ğ        | New      |          |  | ×      | ŏ      | Š        | ğ     |  | New   | ×      | Ж     | ŏ      |   | ğ     | ŎĶ.   | Ж     | OK.   | οĶ    |  | ĕ     | ğ      |    |
| v for 200  |                                    | QUQ2 (%)                 | \$217% | 4096%            | 4485%       | 4696%        | 5588%  | : | 2153% | 7990%  | 113%     | 206%     |          |  | 1484%  | 3408%  | 4837%    | 4133% |  | 2690% | 1269%  | 1204% | 4591%  | - | 2532% | 2102% | 1404% | 876%  | 1572% |  | 2904% | 13263% |    |
| Pine adequacy for 2005   |                                    | Q2eP.H.F<br>in L/s       | 0.3    | 0.3              | 0.3         | 0.3          | 0.3    |   | 0.3   | 0.3    | 41.9     | 41.3     |          |  | 1.1    | 1.1    | =        | 1.1   |  | 1.1   | 11     | 1.1   | 1.1    |   | 2.7   | 2.7   | 2.7   | 2.7   | 2.7   |  | 0.5   | 0,5    |    |
| 2  |                                    | Contribute on Pope       | 25     | អ                | 25          | 22           | 25     |   | 25    | 2.5    | <br>4018 | 3968     |          |  | 106    | 106    | 301      | 28    |  | 901   | 196    | 136   | 106    |   | 263   | 263   | 263   | 583   | 263   |  | 51    | 51     |    |
|  | 1                                  | Judgement                | ğ      | ĕ                | ŏ           | ă            | š      |   | ğ     | Š<br>X | OK       | New      |          |  | οĶ     | ğ      | ă        | ×     |  | Ncw   | š      | ă     | οĶ     |   | OK    | ğ     | ğ     | ş     | ğ     |  | ΟK    | ă      |    |
| Dies advanced for 1665   | 101                                | QV/Q2<br>(%)             | 5217%  | 4096%            | 4485%       | 4696%        | 2588%  |   | 2153% | 799C%  | <br>168% | 307%     |          |  | 1829%  | 4200%  | 5961%    | 5094% | <del>                                     </del> | 3354% | 1583%  | 1501% | \$726% |   | 3097% | 2572% | 1717% | 1072% | 1923% |  | 3366% | 15373% |    |
| o de la constante de la consta | Marchane                           | 27. H.F.                 | 0.3    | 83               | 03          | <del>က</del> | 0.3    |   | 0.3   | 0.3    | 28.3     | 27.8     |          |  | 6.0    | 60     | 60       | 6:0   |  | 6.0   | 60     | 6:0   | 6.0    |   | 2.2   | 2.2   | 2.2   | 2.2   | 2.2   |  | 0.5   | 0.5    |    |
| ě  | Z.                                 | Contribut)               | 23     | 23               | x           | 23           | 25.    |   | 23    | 25     | 2716     | 2666     |          | -                                      | 98     | 8      | 28       | 98    |  | 85    | \$     | \$8   | 8      |   | 215   | 215   | 215   | 215   | 215   |  | 4     | 4      |    |
| 1  | À Dec                              | Ola Cay<br>cay (L/s)     | 13.6   | 10.7             | 11.7        | 12.2         | 14.6   |   | 5.6   | 20.8   | 47.4     | 85.3     |          |  | 16.4   | 37.6   | 53.4     | 45.6  |  | 29.7  | 14.0   | 13.3  | 50.7   |   | 4.69  | 57.6  | 38.5  | 24.0  | 43.1  |  | 15.4  | 70.5   |    |
|  | is and Ca                          | Dia in mm                | 8      | 55               | 55.         | 55           | 150    |   | 150   | 8      | 82       | 250      |          |  | 150    | 82     | 150      | 150   |  | 8     | 55     | 150   | 150    |   | 85.   | 851   | 150   | 52    | 150   |  | 150   | 150    |    |
| 5  | Existing Pipe Details and Capacity | Gradent (0/90)           | 8.0    | 4.9              | eş<br>eş    | 4.0          | 1.6    |   | 4.    | 18.7   | 97.1     | 50.6     |          |  | 11.6   | 0.19   | 123.0    | 8.68  |  | 8.2   | 8.5    | 7.6   | 110.8  |   | 207.4 | 143.0 | 63.8  | 24.9  | 80.0  |  | 10.3  | 214.1  |    |
| Paga   | Existing                           | Lengthin                 | 3      | 83               | \[ \sigma_1 | %            | 23     |   | 85    | ક      | 12       | 2        |          |  | 95     | 8      | <b>8</b> | 8     |  | 370   | 8      | æ     | 37     |   | 4     | 8     | 3     | æ     | SS    |  | 38    | 37     |    |
|  |                                    | TI 80                    | 190    | 0.35             | 50,0        | 4            | \$9.0  | ľ | 0.47  | \$9.0  | 1.00     | 8.       |          |  | 106.80 | 100.94 | 86.06    | 82.45 |  | 87.75 | 87.03  | 86.55 | 82.45  |   | 73.53 | 65.52 | 62.65 | 61.78 | 57.38 |  | 73.76 | 65.84  |    |
|  | MHIL                               | ns ir                    | 8      | 190              | 533         | So           | 4      |   | 0.55  | 74.0   | 0.65     | 59.0     | <b>†</b> | Γ                                      | 107.90 | 106.80 | 26.00    | 86.98 |  | 88.8  | \$7.75 | 87.03 | 86.58  |   | 82.45 | 73.53 | 65.52 | 62.65 | 61.78 |  | 74.15 | 73.76  |    |
| ered   | Line                               | DS MH                    | E      | 1.               | 8           | ž            | -      | + | 129   | -      | 8        | <u> </u> | <b> </b> | Konedobu                               | 209    | +-     | 1        | 1     |  | 8     | 161    | 160   | 35     |   | 158   | 157   | 35.   | 55    | 65    |  | 153   | 151    |    |
| Area Covered   | Sewer Line                         | US MH                    | 12     | 1 5              | =           | 2 2          | )<br>S |   | 130   | 82     | -        |          |          | ×                                      | 210    | 200    | 8        | 163   |  | A291  | 291    | 191   | हें    |   | 55    | 32    | 153   | 156   | 155   |  | 152   | 153    |    |
| <b>~</b> [   |                                    | I                        | •      | - <del>-</del> - | -           |              |        | ł | 1     | 1      | <br>┺    |          |          | ــــــــــــــــــــــــــــــــــــــ | Щ.     |        |          |       | 1  |       |        |       |        |   |       |       |       |       |       |  |       | •      |    |

| Area Covered | overed     |       |        | Paga           | 3                 |                                    |           | į                                     |                    | 20, 20, 10             | ļ         | i i                                   | Ding advantage for 2005 | Mr. for 20    | ٧         | Ä                     | angle s            | Noe adequate for 2015 | V           |
|--------------|------------|-------|--------|----------------|-------------------|------------------------------------|-----------|---------------------------------------|--------------------|------------------------|-----------|---------------------------------------|-------------------------|---------------|-----------|-----------------------|--------------------|-----------------------|-------------|
| Sewe         | Sewer Line | Ř.    | MH II  | EXINGR         | R Pipe Det        | Existing Pipe Details and Capacity | A) Coede  | ב                                     | e socom            | rype adequacy for 1971 | ٥         | Ė                                     | א זיים ביל חיצ          | CA 101 EX     | 3         |                       |                    |                       |             |
| ₩<br>S       | W %        | 71 S3 | y vo   | Length in<br>m | Gradent<br>(0/00) | Dia in nm                          | Ole Carlo | Contributi Q2=P.H.F<br>ag Popn In L's | 02=P.H.F<br>In L/s | 01/05                  | Judgement | Contributi Q2=P.H.F<br>ng Popn in L/s | Q2=P.H.F<br>in L/s      | (%)<br>201/02 | Judgement | Contributi<br>ag Popn | 02=P.H.F<br>in L/s | 01/02<br>(%)          | Jud germent |
| 152          | 15.        | 68.58 | 65.84  | 33             | 85.6              | 150                                | 44.6      | 4                                     | 0.5                | 9723%                  | Š         | 51                                    | 0.5                     | 8389%         | Q<br>X    | 55                    | 9.0                | 7778%                 | š           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               |           |                       |                    |                       |             |
| 151          | 150        | 65.84 | 63.40  | 91             | 152.5             | 150                                | 59.5      | 163                                   | 1.7                | 3503%                  | ò         | 224                                   | 2.3                     | 2549%         | ă         | 268                   | 2.8                | 2130%                 | ă           |
| 150          | 149        | 63.40 | 57.38  | 05.            | 120.4             | 150                                | 52.8      | 163                                   | 1.7                | 3112%                  | OK        | 224                                   | 2.3                     | 2265%         | š         | 368                   | 2.8                | 1893%                 | ğ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               |           |                       |                    |                       |             |
| 149          | 146        | 57.38 | 49.99  | 0%             | 92.4              | 150                                | 26.3      | 378                                   | 3.9                | 1176%                  | οĸ        | 487                                   | 5.1                     | 912%          | š         | 561                   | 5.8                | 792%                  | š           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               |           |                       |                    |                       |             |
| 148A         | 34.        | 62.36 | \$7.36 | 22             | 250.0             | 150                                | 76.1      | 7.5                                   | 8.0                | 97479                  | X         | 122                                   | 1.3                     | 5992%         | οχ        | 158                   | 1.6                | 4627%                 | ğ           |
| 148          | 147A       | 57.36 | 53.92  | 82             | 122.9             | 150                                | 53.4      | 75                                    | 8.0                | 6833%                  | οK        | 122                                   | 1.3                     | 4200%         | ŏ         | 158                   | 1.6                | 3243%                 | ğ           |
| 147A         | 147        | 53.92 | 21.8   | 22             | 79.2              | 150                                | 42.9      | 27                                    | 0.8                | 5486%                  | ΟK        | 122                                   | 1.3                     | 3373%         | ŏ         | :58                   | 9:                 | 2604%                 | ğ           |
| 147          | 146        | 51.94 | 49.99  | 31             | 62.9              | 150                                | 38.2      | 7.5                                   | 8.0                | 4889%                  | ΟĶ        | 122                                   | 1.3                     | 3006%         | ŏ         | 158                   | 1.6                | 2321%                 | ĕ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               |           |                       |                    |                       |             |
| 146          | 55         | 49.99 | 47.85  | 92             | 82.3              | 150                                | 43.7      | 453                                   | 4.7                | 256%                   | οĶ        | 8                                     | 6.3                     | %689          | š         | 719                   | 7.5                | 583%                  | ğ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    | ·                      |           |                                       |                         | :             | :         |                       |                    |                       |             |
| 145          | 14         | 49.99 | 48,44  | 8              | 25.8              | 150                                | 24.5      | \$4                                   | 9.0                | 4352%                  | ОК        | 68                                    | 6.0                     | 2640%         | š         | 117                   | .4                 | 2008%                 | ğ           |
| 4            | 143        | 48.44 | 47.85  | 10             | 59.0              | 150                                | 37.0      | 54                                    | 9.0                | 6576%                  | OK        | 89                                    | 6.0                     | 3990%         | ğ         | 117                   | ;;                 | 3035%                 | ŏ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        | ·         |                                       |                         |               |           |                       |                    |                       |             |
| 143          | 140        | 47.85 | 45.26  | 34             | 76.2              | 150                                | 42.0      | 507                                   | 5.3                | %962                   | οĶ        | 869                                   | 7.3                     | \$78%         | ŏ         | 836                   | 8.7                | 483%                  | ğ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               |           |                       |                    |                       |             |
| 142          | 141        | 47.19 | 46.33  | ٥              | 95.6              | 150                                | 47.1      | \$                                    | 9.0                | 8369%                  | ОK        | 68                                    | 6.0                     | 5078%         | ŏ         | 117                   | 1.2                | 3863%                 | ă           |
| 141          | 140        | 46.33 | 45.26  | 12             | 89.2              | 150                                | 45.5      | 54                                    | 9.0                | 8085%                  | χo        | 68                                    | 6.0                     | 4905%         | ğ         | 117                   | 1,2                | 3731%                 | ŏ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               | :         |                       |                    |                       |             |
| 140          | 139        | 45.26 | 39.93  | 53             | 183.8             | 150                                | 65.3      | 297                                   | 6.2                | 1050%                  | Š         | 831                                   | 8.7                     | 754%          | ÖK        | 1002                  | 10.4               | 626%                  | OK<br>OK    |
| 139          | 138        | 39.93 | 37.03  | 38             | 76.3              | 150                                | 42.1      | 265                                   | 6.2                | 677%                   | Ş         | 831                                   | 8.7                     | 486%          | ğ         | 1002                  | 10.4               | 403%                  | ĕ           |
| 138          | 137        | 37.03 | 30.48  | 89             | 96.3              | 150                                | 47.3      | 262                                   | 6.2                | 760%                   | OK        | 831                                   | 8.7                     | 546%          | š         | 1002                  | 10.4               | 453%                  | ă           |
| 137          | 132        | 30.48 | 27.43  | 53             | 57.5              | 150                                | 36.5      | 597                                   | 6.2                | 587%                   | OK        | 831                                   | 8.7                     | 422%          | Š         | 1002                  | 10.4               | 350%                  | ŏ           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           | :                                     |                         |               |           |                       |                    |                       |             |
| 136          | 134        | 10.87 | 32.38  | 73             | 214.1             | 150                                | 70.5      | 75                                    | 8.0                | 9020%                  | š         | 122                                   | 1.3                     | 5545%         | ×         | 158                   | 1.6                | 4282%                 | οĶ          |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         | :             |           | •                     |                    |                       | ;           |
| 135          | 134        | 33.88 | 32.38  | 43             | 34.9              | 150                                | 28.4      | 7.5                                   | 8.0                | 3641%                  | ŏ         | 122                                   | 1.3                     | 2238%         | X         | 158                   | 1.6                | 1728%                 | ŏ           |
|              |            |       | 1      |                |                   |                                    |           |                                       |                    |                        | 1         | :                                     | . :                     | ::            | :         | ·                     |                    |                       | :           |
| 134          | 133        | 32.38 | 29.95  | 18             | 135.0             | 150                                | 56.0      | 981                                   | 1.9                | 2888%                  | Š         | 288                                   | 3.0                     | 1865%         | ě         | 365                   | 3.8                | 1472%                 | š           |
|              |            |       |        |                |                   |                                    |           |                                       |                    |                        |           |                                       |                         |               |           |                       |                    |                       |             |

| _                      |                                    |                                       |       |   | _,-   | _   | _      | ~-     |    |        |   |       | _     |       | <br>  |         | - 1    |          | —     |       | <br>  | — т   | - T |       |       | Т | ÷      |       | 1     | Ť      | . Т     | 7 |
|------------------------|------------------------------------|---------------------------------------|-------|---|-------|-----|--------|--------|----|--------|---|-------|-------|-------|-------|---------|--------|----------|-------|-------|-------|-------|-----|-------|-------|---|--------|-------|-------|--------|---------|---|
| 8                      |                                    | Judgement                             | ğ     | ł | ź     | - 1 | 1      | ĕ      |    | ĕ      |   | ð     | ă     | ŏ     | ĕ     | ŏ       | ĕ      | ĕ        | ă     | ğ     | ğ     | š     |     | ğ     | ă     |   |        |       |       | 1      | ğ       |   |
| Pipe adequacy for 2015 |                                    | Q1/Q2<br>(%)                          | 1356% | 3 | 420%  |     | 19302% | 10014% |    | 13271% |   | 4217% | 7029% | 5066% | 7427% | 4730%   | 9131%  | 9610%    | 7306% | 6478% | 2279% | 2204% |     | 249%  | 156%  |   | 2720%  | 3381% | 3567% | 6859%  | 2705%   |   |
| adequa                 |                                    | )2eP.H.F<br>in L/s                    | 3.8   |   | 4.8   |     |        | 0.2    | TΤ | 0.2    |   | 6:0   | 6.0   | 6.0   | 0.2   | 0.2     | 0.7    | 0.7      | 0.7   | 0.7   | 2.2   | 2.2   |     | 17.4  | 22.1  |   | 1.6    | 1.6   | 1.6   | 1.6    | 1.6     |   |
| Ę                      |                                    | Coatribud O2=P.H.F<br>ng Popn in L/s  | 365   |   | 1416  |     | 21     | 73     |    | 22     |   | 16    | 2     | 91    | 21    | 21      | 6      | 5        | 70    | 70    | 210   | 210   |     | 1675  | 2118  |   | 158    | 158   | 158   | 158    | 158     |   |
| \ s                    |                                    | Judgement                             | ğ     |   | ĕ     |     | ğ      | ğ      |    | ĕ      |   | ŏ     | ŏ     | QK    | OK    | ΟĶ      | ð      | ,        | ОĶ    | Ø     | ğ     | ŏ     |     | ğ     | ă     |   | ă      | ŏ     | Ř     | 乡      | ğ       |   |
| Pine adequacy for 2005 |                                    | 01/02                                 | 1718% |   | 511%  |     | 21333% | 11068% |    | 14667% |   | 4680% | 7800% | 5622% | 8208% | 5228%   | 10145% | 30678%   | 8118% | 7198% | 2533% | 2449% |     | 289%  | 180%  |   | 3523%  | 4379% | 4620% | 8882%  | 3503%   |   |
| »deanac                |                                    | 020-P.H.F<br>in L/s                   | 3.0   |   | 12.1  |     | 0.2    | 0.2    |    | 0.2    |   | 6.0   | 6.0   | 6.0   | 0.2   | 0.2     | 0.7    | 0.7      | 0.7   | 0.7   | 2.0   | 2.0   |     | 14.5  | 19.2  |   | 1.3    | 1.3   | 1.3   | 1.3    | 1.3     |   |
| P.                     |                                    | Contributi Q2=P.H.F<br>ng Popn in L/s | 288   |   | 1163  |     | 61     | 19     |    | 61     | - | 82    | 82    | 82    | 61    | 61      | છ      | 63       | 63    | 63    | 189   | 189   |     | 1396  | 1839  |   | 122    | 122   | 122   | 122    | 122     |   |
|                        |                                    | ) and bear                            | ă     |   | ă     |     | ΟK     | OK     |    | š      |   | X     | ŏ     | š     | ğ     | ŏ       | ğ      | ğ        | ă     | ΟĶ    | ğ     | ğ     |     | ŏ     | ΟK    |   | Ø.     | ΟK    | ĕ     | ă      | OK      |   |
| 2 Con 190              | ripe adequacy for 1995             | QU/02<br>(%)                          | 2660% |   | 726%  | -   | 25333% | 13144% |    | 17418% |   | 5643% | 9406% | %6119 | 9747% | 6208%   | 12291% | 12937%   | 9835% | 8720% | 3068% | 2968% |     | 413%  | 270%  |   | \$731% | 7123% | 7515% | 14449% | .%869\$ |   |
|                        | aged trac                          | OZAP.H.F<br>in L/s                    | 1.9   |   | \$.5  | -   | 0.2    | ç      |    | 0.2    |   | 7.0   | 0.7   | 0.7   | 0.2   | 0.2     | 0.5    | 0.5      | 0.5   | 0.5   | 1.6   | 1.6   |     | 10.5  | 12.8  |   | 8.0    | 8.0   | 8.0   | 8.0    | 8.0     |   |
| Ž                      | -                                  | Centributi (                          | 186   |   | 818   |     | 16     | 16     |    | 91     |   | 89    | 89    | 89    | 91    | 91      | 22     | 22       | 52    | 22    | 156   | 156   |     | 1011  | 1227  |   | 75     | 7.5   | 75    | 25     | 75      |   |
| ļ                      | pacity                             | Ol=Cape<br>city (L/s)                 | 51.5  |   | 619   |     | 42.2   | 21.9   |    | 29.0   |   | 40.0  | 9999  | 48.0  | 16.2  | 10.3    | 999    | 70.1     | 53.3  | 47.2  | 49.9  | 48.2  |     | 43.5  | 34.5  |   | 8.4    | 55.7  | 58.7  | 112.9  | 44.5    |   |
|                        | Existing Pipe Details and Capacity | Die In men                            | 150   |   | 150   | i   | 150    | 82     |    | 82     |   | 150   | 150   | 35    | 150   | 82      | 150    | 150      | 8     | 150   | 150   | 150   |     | 150   | 150   |   | 150    | 150   | 150   | 150    | 150     |   |
|                        | Pipe Deta                          | Gradlent (6/90)                       | 114.5 |   | 165.3 |     | 76.9   | 20.7   |    | 36.3   |   | 689   | 191,4 | 4.66  | 11.4  | 94      | 1911   | 211.7    | 122.4 | 296.2 | 107.2 | 100.3 |     | 81.4  | 51.2  |   | 86.4   | 133.5 | 148.6 | 549.4  | 85.4    |   |
| Paga                   | Existing                           | Length in                             | g     |   | ŝ     |     | 22     | 8      |    | 8      |   | 18    | ż     | 17    | 29    | <u></u> | 18     | 53       | 38    | 17    | \$    | 38    |     | 88    | 74    |   | 38     | 8     | 5.1   | 91     | 79      |   |
|                        | 11                                 | E<br>B                                | 27.43 |   | 17.68 |     | 49.87  | 49.27  |    | 49.27  |   | 48.03 | 30.05 | 28.35 | 49.47 | 40.41   | 45.97  | 39.83    | 35.18 | 28.35 | 21.49 | 17.68 |     | 13,12 | 9.33  |   | 36.99  | 32,45 | 24.87 | 16.08  | 9.33    |   |
|                        | MH II.                             | us m                                  | 29.95 |   | 27.43 |     | 53.79  | 49.87  |    | 50.36  |   | 49.27 | 48.03 | 30.05 | 49.80 | 40.47   | 40.41  | 45.97    | 30.83 | 35.18 | 28.35 | 21.49 |     | 17.68 | 13.12 |   | 39.41  | 36.99 | 32.45 | 24.87  | 16.08   |   |
| ered                   | Line                               | DS MH                                 | 132   |   | 811   |     | 123A   | 133    |    | 123    |   | 12    | 121   | 22    | 130   | 2 2     | 1.28   | 127      | 126   | 12    | 110   | 118   |     | =     | 112   |   | 115A   | 115   | 114   | 113    | 112     |   |
| Area Covered           | S=/er Line                         | NS MAH                                | 133   |   | 132   |     | 125    | 123A   |    | 121    |   | 123   | 122   | 2     | 1.5   | 1 2     | 2 2    | <u> </u> | 127   | 126   | 120   | 511   |     | 118   | 117   |   | 116    | 115A  | 15    | 114    | 113     |   |

|  | Judgement             | ă    | ă    | ž    | New  |   | ŏ     | š     | ð      |    | ğ    |   | ă    | ž      | New  | ş    | Ī |     | ×         | 8 8    | 888                        | 8 8 8 8                              | 88888  | 888888  | 8 8 8 8 8   | 8 8 8 8 8 8   | 88888888  |  | 8888 88888   | 88888888888   | X X X X X X X X X X X X X X X X X X X  | NO OK OK OK OK OK OK   | N N N N N N N N N N N N N N N N N N N  |
|--|-----------------------|------|------|------|------|---|-------|-------|--------|----|------|---|------|--------|------|------|---|-----|-----------|--------|----------------------------|--------------------------------------|--|---|---|---|---|--|--|---|--|--|--|
| Pipe adequacy for 2015                     | (%)                   | 125% | 124% | 268  | 192% |   | 1112% | 3066% | 43236% | ~- | 114% | + | 102% | 93%    | 2661 | 171% | + | +   | 11398%    | 11398% | 11398%<br>46564%<br>39953% | 11398%<br>46564%<br>39953%<br>35304% | 11398%<br>46564%<br>39953%<br>35304%           | 11398%<br>46564%<br>39953%<br>35304%<br>7316%         | 11308%<br>16564%<br>19953%<br>35304%<br>33899%<br>7316% | 11398%<br>16564%<br>39953%<br>35304%<br>7316%<br>7202%  | 11398%<br>16564%<br>18953%<br>13899%<br>7316%<br>7316%<br>7316%             | 11398%<br>16564%<br>35304%<br>7316%<br>7316%<br>7315%<br>385%<br>385%      | 11398%<br>46564%<br>39953%<br>53304%<br>7316%<br>7316%<br>385%<br>672%   | 11398%<br>16564%<br>19953%<br>13899%<br>7316%<br>7316%<br>672%<br>672%        | 11398% 16564% 159953% 15304% 17316% 17316% 1855% 1672%   | 11398% 16564% 16564% 13399% 1316% 1316% 60%  | 11398%<br>146564%<br>159953%<br>13899%<br>13899%<br>13899%<br>1385%<br>672%<br>672%<br>129%                        |
| adequak                                    | OZeP.H.F<br>in L/s    | 24.4 | 24,4 | 24,4 | 24,4 |   | 9.0   | 80    | 9.0    |    | 5.5  |   | 8,4  | 4.6    | 4,6  | 5.1  | 1 |     | 0.2       |        |                            |                                      |  |   |   |   |   |  |  |   |  | فنالت نفرها تناهرها كالمراق هروي والالا  | انت خا کا نام سازنی مرام کا کاری نیز در ای در در ای  |
| ig.  | Contributi (          | 2339 | 2339 | 2339 | 2339 |   | 23    | 29    | 23     |    | 2463 | + | 443  | 443    | 443  | 464  | ĺ |     | 21        | 21     | 12 22 22                   | 12 12 12                             | 2 2 2 2 2                                      | 12 12 12 12 12  | 72 22 22 23 23 23 23 23 23 23 23 23 23 23               | 21 21 21 21 21 21 21 21 21 21 21 21 21 2                | 21<br>21<br>21<br>21<br>21<br>72<br>72<br>617                               | 21<br>21<br>21<br>21<br>21<br>21<br>72<br>72<br>617<br>617                 | 21<br>21<br>21<br>21<br>21<br>21<br>21<br>72<br>617<br>617<br>617  | 21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>21<br>617<br>617<br>617       | 21<br>21<br>21<br>21<br>21<br>21<br>72<br>617<br>617<br>617  | 21<br>21<br>21<br>21<br>21<br>21<br>21<br>72<br>617<br>617<br>617<br>8142  | 21<br>21<br>21<br>21<br>21<br>21<br>72<br>617<br>617<br>617<br>617<br>617<br>5142                                  |
| 3  | demonst               | οĸ   | ŏ    | ×    | New  |   | Š     | ĕ     | š      |    | š    |   | ŏ    | S      | New  | ğ    |   |     | Š         |        |                            |                                      |  |   |   |   |   |  |  |   |  |  |  |
| Pipe adequacy for 2005                     | Q1/Q2<br>(%)          | 144% | 144% | 103% | 222% |   | 1325% | 3655% | 51551% |    | 132% |   | 102% | 93%    | 199% | 171% |   |     | 12598%    | 12598% | 12598%<br>51466%<br>44159% | 12598%<br>51466%<br>44159%<br>39020% | 51466%<br>44159%<br>39020%<br>37467%           | 12598%<br>51466%<br>44159%<br>39020%<br>7525%         | 12598%<br>51466%<br>44159%<br>39020%<br>37467%<br>7525% | 12598%<br>51466%<br>44159%<br>39020%<br>37467%<br>7525% | 112598%<br>51466%<br>44159%<br>39020%<br>3374677%<br>7525%<br>7525%<br>787% | 12598%<br>51466%<br>39020%<br>37467%<br>7525%<br>787%<br>386%              | 12598%<br>1465%<br>44159%<br>37467%<br>7525%<br>7875%<br>386%<br>675%  | 12598%<br>44159%<br>44159%<br>39020%<br>7525%<br>787%<br>386%<br>675%         | 51466%<br>51466%<br>39020%<br>39020%<br>7525%<br>7525%<br>675%<br>675%   | 112598%<br>51466%<br>44159%<br>33020%<br>37467%<br>7525%<br>787%<br>675%<br>675%                                     | 12598%<br>1465%<br>44159%<br>37467%<br>77525%<br>77525%<br>67%<br>67%<br>386%<br>386%<br>386%<br>386%<br>386%      |
| e adeoua                                   | Q2=P.H.F<br>In L/s    | 21.0 | 21.0 | 21.0 | 21.0 |   | 0.5   | 0.5   | 0.5    |    | 22.1 |   | 4.6  | 4.6    | 4.6  | 5.1  | - |     | 0.2       |        |                            |                                      |  |   |   |   |   |  |  |   |  |  |  |
| Pio  | Concributi Q2=P.H.F   | 2018 | 2018 | 2018 | 2018 |   | 52    | 52    | 52     |    | 2122 |   | 2    | 443    | 443  | 494  |   |     | <u>\$</u> | 61     | 91 91                      | 19 19 19 19                          | 19 19 19 19 19 19 19 19                        | 91 91 91 97   | 19 19 19 70 70  | 91 99 19 19 19 19 19 19 19 19 19 19 19 1                | 19<br>19<br>19<br>19<br>19<br>70<br>70<br>615                               | 19<br>19<br>19<br>19<br>19<br>70<br>70<br>615<br>615                       | 19<br>19<br>19<br>19<br>19<br>70<br>70<br>615<br>615<br>615  | 19<br>19<br>19<br>19<br>19<br>19<br>615<br>615<br>615<br>615                  | 19<br>19<br>19<br>19<br>19<br>70<br>70<br>70<br>615<br>615<br>615<br>615   | 19<br>19<br>19<br>19<br>19<br>19<br>19<br>615<br>615<br>615<br>615<br>615<br>82789                                   | 19<br>19<br>19<br>19<br>19<br>19<br>19<br>615<br>615<br>615<br>615<br>615<br>82789                                 |
| ¥  | diement               | ğ    | ğ    | š    | New  |   | OK    | χÖ    | ğ      |    | οχ   |   | ŏ    | · OX   | New  | Š    |   |     | ğ         | 8 8    | 8 8 8                      | 8 8 8                                | OK OK OK                                       | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                 | 8 8 8 8 8   | X X X X X X X X X X X X X X X X X X X                   | X X X X X X X X X X X X X X X X X X X                                       | 8 8 8 8 8 8 8  | X X X X X X X X X X X X X X X X X X X  | 8 8 8 8 8 8 8 8   | 8 8 8 8 8 8 8 8 8 8  | N  | N  |
| Pine adequacy for 1995                     | Q1/Q2<br>(%)          | 217% | 217% | 155% | 334% |   | 1767% | 4874% | 68734% |    | 197% |   | 208% | 190%   | 409% | 323% |   |     | 14961%    | 14961% | 14961%<br>61115%<br>52439% | 14961%<br>61115%<br>52439%<br>46336% | 14961%<br>61115%<br>52439%<br>46336%<br>44492% | 14961%<br>61115%<br>52439%<br>46336%<br>8635%         | 14961%<br>61115%<br>52439%<br>46336%<br>44492%<br>8635% | 14961%<br>61115%<br>52439%<br>46336%<br>8635%<br>8635%  |   |  |  |   |  |  |  |
| a school                                   | 02-P.H.F<br>in L/s    | 14.0 | 14.0 | 14,0 | 14.0 |   | 0.4   | 0.4   | 0.4    |    | 14.8 |   | 2.3  | 2.3    | 2.3  | 2.7  |   |     | 0.2       |        |                            | 1 1 1 1                              |  |   |   |   |   |  |  |   |  |  |  |
| Į,   | Centributi<br>ng Popa | 1341 | 1341 | 1341 | 1341 |   | 36    | 65.   | 39     |    | 1419 |   | 216  | 216    | 216  | 261  |   |     | 31        | 16 16  | 5 5 5                      | 2 2 9                                | 91 92 91 91                                    | 91 91 91 91 91 91 91 91 91 91 91 91 91 9              | 61 16 16 61   | 16<br>16<br>16<br>16<br>16<br>367                       | 16 16 16 16 16 16 16 16 16 16 16 16 16 1                                    | 16 16 16 16 16 16 16 16 16 16 16 16 16 1                                   | 16 16 16 16 16 16 16 16 16 16 16 16 16 1   | 16 16 16 16 16 16 16 16 16 16 16 16 16 1                                      | 16<br>16<br>16<br>16<br>16<br>16<br>16<br>18<br>36<br>7<br>36<br>7<br>18<br>25<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18<br>18 | 16<br>16<br>16<br>16<br>16<br>16<br>16<br>17<br>367<br>367<br>367<br>367<br>1825                                     | 16<br>16<br>16<br>16<br>16<br>16<br>16<br>17<br>367<br>367<br>367<br>367<br>367<br>367<br>367<br>367<br>367<br>36  |
| l alient                                   | 2.0                   | 30.4 | 30.3 | 21.7 | 46.7 |   | 7.2   | 19.8  | 279.2  |    | 29.1 |   | 4.7  | 4.3    | 9.2  | 8.8  |   |     | 24.9      | 24.9   | 24.9                       | 24.9<br>101.9<br>87.4<br>77.2        | 24.9<br>101.9<br>87.4<br>77.2<br>74.2          | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9         | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9           | 24.9<br>101.9<br>87.4<br>77.2<br>54.9<br>13.0           | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9<br>54.9<br>50.4               | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9<br>564.9<br>504<br>24.8      | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9<br>54.9<br>50.4<br>43.2  | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9<br>54.9<br>50.4<br>24.8<br>43.2 | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9<br>54.9<br>50.4<br>24.8<br>24.8<br>24.8<br>24.8<br>24.8<br>24.8  | 24.9<br>101.9<br>87.4<br>77.2<br>74.2<br>54.9<br>56.9<br>50.4<br>43.2<br>43.2<br>43.2                                | 24.9<br>87.4<br>87.4<br>77.2<br>74.2<br>54.9<br>50.4<br>43.2<br>19.6<br>19.6                                       |
| Aga<br>Britishan Bine Details and Conscite | Die in mm             | 150  | 150  | 150  | ş    |   | 150   | 150   | 150    |    | 150  |   | 150  | 150    | 28   | 150  |   |     | 82        | 150    | 150                        | 150 150 150                          | 021 021 021 021                                | 150<br>150<br>150<br>150<br>150                       | 150<br>150<br>150<br>150<br>150                         | 150<br>150<br>150<br>150<br>150                         | 150<br>150<br>150<br>150<br>150<br>150<br>150                               | 150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150                | 150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150  | 150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150                   | 150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150   | 150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150   | 150<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>150  |
|  | Gradient<br>(0/00)    | 39.8 | 39.5 | 20.3 | 20.3 |   | 2.2   | 16.9  | 3361.8 |    | 36.6 |   | 6.0  | 8.0    | 8.0  | 3.3  |   |     | 26.8      | 26.8   | 26.8<br>447.3<br>329.3     | 26.8<br>447.3<br>329.3<br>257.1      | 26.8<br>447.3<br>329.3<br>257.1                | 26.8<br>447.3<br>329.3<br>257.1<br>237.1              | 26.8<br>447.3<br>329.3<br>257.1<br>237.1<br>129.8       | 26.8<br>447.3<br>329.3<br>257.1<br>129.8<br>7.2         | 26.8<br>447.3<br>329.3<br>257.1<br>129.8<br>129.8<br>109.7                  | 26.8<br>447.3<br>2257.1<br>237.1<br>129.8<br>7.2<br>7.2<br>26.4            | 26.8<br>447.3<br>329.3<br>257.1<br>237.1<br>129.8<br>109.7<br>80.5   | 26.8<br>447.3<br>329.3<br>329.3<br>257.1<br>7.2<br>7.2<br>7.2<br>7.2<br>80.5  | 26.8<br>447.3<br>329.3<br>227.1<br>237.1<br>129.8<br>129.8<br>109.7<br>26.4<br>80.5  | 26.8<br>447.3<br>329.3<br>257.1<br>237.1<br>129.8<br>109.7<br>26.4<br>80.5<br>16.5                                   | 26.8<br>447.3<br>329.3<br>257.1<br>237.1<br>129.8<br>109.7<br>26.4<br>80.5<br>4.6                                  |
| Faga                                       | Length in             | 43   | 88   | 55   | 5,   |   | 72    | 7     | 7.     |    | 3    |   | \$   | 68     | 8    | 72   |   |     | ĸ         | 30     | 30 30                      | 30 30 21                             | 30 30 21 22                                    | 30 30 21 22 30 50 50 50 50 50 50 50 50 50 50 50 50 50 | 2 8 8 12 8 8  | 25 22 23 30 22 29 29 29 29 29 29 29 29 29 29 29 29      | 25 8 22 23 32 23 23 23 23 23 23 23 23 23 23                                 | 25 08 12 2 30 08 24 42 43 43 43 44 44 44 44 44 44 44 44 44 44              | 27<br>20<br>20<br>20<br>20<br>20<br>20<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30 | 3 1 2 3 8 8 2 4 1 8 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                   | 25 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29   | 27<br>30<br>30<br>24<br>24<br>24<br>25<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30 | 20 20 22 23 30 20 25 24 14 25 25 25 25 25 25 25 25 25 25 25 25 25  |
| 14.16.41                                   | ži ži                 | 7.62 | 5.33 | 3.85 | 3.85 |   | 62.20 | 00.19 | 3.85   |    | 2.13 |   | 9.51 | 2<br>4 | 9.44 | 9.20 |   |     | 50.08     | 36.66  | 36.66<br>26.78             | 26.78<br>26.78<br>21.38              | 26.78<br>26.78<br>21.38<br>15.69               | 50.08<br>36.66<br>26.78<br>21.38<br>15.69             | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20       | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20       | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>8.99<br>5.48           | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>8.99<br>5.48          | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>8.99<br>5.48<br>5.11<br>2.13                                    | 26.78<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>9.20<br>5.11<br>5.13     | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>9.20<br>5.48<br>5.48<br>5.11  | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>8.99<br>5.48<br>5.11<br>2.13                                    | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>9.20<br>5.48<br>5.11<br>2.13<br>0.41                          |
|  | Li So                 | 9.33 | 7.62 | 5.33 | 5.33 |   | 62.36 | 62.20 | 61.8   |    | 3.85 |   | 8.6  | 9.51   | 9.51 | 4.6  |   |     | 52.01     | 52.01  | 52.01<br>50.08<br>36.66    | 50.08<br>36.66<br>26.78              | 52.01<br>50.08<br>36.66<br>26.78<br>21.38      | 52:01<br>50:08<br>36:66<br>26:78<br>21:38<br>15:69    | 50.08<br>36.66<br>26.78<br>21.38<br>15.69               | 52.01<br>50.08<br>36.66<br>26.78<br>21.38<br>15.69      | 52.01<br>50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>920                   | 52.01<br>50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>8.89<br>5.48 | 50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>15.69<br>8.20<br>8.89<br>5.48   | 52.01<br>50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>8.99<br>5.48    | 52.01<br>50.08<br>36.66<br>36.66<br>25.73<br>15.69<br>8.99<br>5.48<br>5.11   | 52.01<br>50.08<br>36.66<br>26.78<br>26.78<br>15.69<br>5.20<br>8.89<br>5.48<br>5.11<br>2.13                           | 52.01<br>50.08<br>36.66<br>26.78<br>21.38<br>15.69<br>9.20<br>9.20<br>8.89<br>5.48<br>5.11<br>2.13<br>2.13<br>0.41 |
| Area Covered                               | S MH DS MH            | Ξ    | 2    | 85   |      | _ | 163A  | -     | 8      |    | 108  |   | 201A | 201    |      | 8    |   |     | 169       | 168    | 168                        | 168<br>168<br>168                    | 168<br>167<br>168<br>168                       | 168<br>168<br>168<br>168<br>200<br>200<br>200         | 168<br>168<br>168<br>168<br>200<br>200                  |   |   |  |  |   |  |  |  |
|  | US MH                 | 112  |      | 2    |      |   | 164A  | 163A  | 162A   |    | 8    |   | 505  | 201A   |      | ဒ္က  |   | 170 | ,         | 169    | 891                        | 891 291                              | 86 8 6 8                                       | 168 168 169 169 169 169 169 169 169 169 169 169       | 168<br>167<br>166<br>165                                | 168<br>168<br>166<br>166<br>200                         | 166 168 168 168 168 188 188 188 188 188                                     | 168 168 169 169 199 198 198 198 198 198 198 198 198 19                     | 168 168 168 168 169 169 169 169 169 169 169 169 169 169  | 168<br>168<br>165<br>168<br>198<br>198<br>198                                 | 168<br>168<br>168<br>168<br>168<br>193<br>193<br>193<br>193<br>193   | 168<br>168<br>168<br>168<br>168<br>198<br>198<br>198<br>198  | 200 200 168 168 168 100 100 100 100 100 100 100 100 100 10   |

|                        |                       |                                       |           |          | ·      |       |       |        |              |                                       |          |          | -  |        |              |             | _        | т    |      |      |          |      | _    | 1      | $\neg$ | ~т       | _    |           | т   |            |      |      |              | $\neg$       |
|------------------------|-----------------------|---------------------------------------|-----------|----------|--------|-------|-------|--------|--------------|---------------------------------------|----------|----------|----|--------|--------------|-------------|----------|------|------|------|----------|------|------|--------|--------|----------|------|-----------|-----|------------|------|------|--------------|--------------|
| ١٧١                    |                       | judgement                             |           | ă        | 췽      | ă     | ŏ     | ŏ      |              | ă                                     |          | ĕ        |    | Š<br>Z |              | ŏ           | ĕ        | ĕ    | š    | š    | ğ        | ğ    | ğ    | οX     | Š      | Š        | ž    | Š         |     | S          | ž    | S    |              | S.           |
| y for 201              |                       | 91/92                                 |           | 3130%    | 2297%  | 2007% | 2148% | 764%   |              | 2386%                                 |          | 1225%    |    | 382%   |              | 207%        | 122%     | 124% | 134% | 134% | 207%     | 133% | 117% | 769%   | %      | %        | %    | 582%      |     | 8          | క్ర  | 8    |              | 8            |
| Pipe adequacy for 2015 |                       | QZeP.H.F<br>In L/s                    | 7         | 1.7      | 1.7    | 1.7   | 1.7   | 1.7    |              | 8:0                                   |          | 22       |    | 12.2   |              | 14,6        | 14.6     | 14.6 | 14.6 | 14.6 | 14.6     | 15.4 | 15.4 | 15.4   | 15.4   | 15.4     | 15.4 | 15,4      |     | 8.0        | 8.0  | 8.0  |              | 8.0          |
| 8                      |                       | Centributi<br>ng Pepa                 |           | 161      | 191    | 161   | 161   | 161    |              | 26                                    |          | 237      |    | 1167   |              | 1404        | 1404     | 1404 | 1404 | 1404 | 24.      | 1480 | 1480 | 1480   | 1480   | 1480     | 1480 | 1480      |     | 76         | 76   | 76   |              | 76           |
|                        |                       | Judgement                             |           | ş        | ģ      | ŏ     | ă     | š      |              | ă                                     |          | ă        |    | No.    |              | ŏ           | ×        | ğ    | OΚ   | š    | ğ        | ŏ    | š    | ğ      | ž      | NG       | S    | ğ         |     | Š          | NG   | SS   |              | NG           |
| for 2005               |                       | QUQ2                                  |           | 4131%    | 3032%  | 2648% | 2835% | 2,6001 |              | 2790%                                 | <u> </u> | 1552%    |    | 442%   |              | 243%        | 144%     | 146% | 158% | 158% | 243%     | 156% | 137% | 303%   | 8      | š        | 8    | 684%      |     | 0%0        | 0%0  | 0%   |              | 250          |
| Pine adequacy for 2005 | -                     |                                       |           | 1.3      | 1.3    | 13    | П     | 5.     | 1            | 0.7                                   |          | 6:1      |    | 10.5   |              | 12.4        | 12.4     | 12.4 | 12.4 | 12.4 | 12.4     | 13.1 | 13.1 | 13.1   | 13.1   | 13,1     | 13.1 | 13.1      |     | 0.7        | 0.7  | 0.7  |              | 0.7          |
| Pipe                   | -                     | Contributi OZ=P.H.F<br>ng Popn in L/s | -         | 13       | ŭ      | E E   | 122   | 122    |              | 8                                     |          | 187      |    | 1008   |              | 1195        | 1195     | 1195 | 2611 | 8    | 261:     | 8    | 1260 | 280    | 1260   | 1260     | 1260 | 1260      |     | 85         | 65   | જ    |              | 3            |
| -                      | $\dagger$             | Judgestaast                           |           | OK<br>OK | ă      | ĕ     | ğ     | ğ      |              | ğ                                     |          | ğ        |    | New    | _            | ğ           | ğ        | ğ    | ă    | ă    | ă        | ă    | ž    | ă      | ž      | 2        | ğ    | ă         |     | ž          | SZ   | Š    |              | ă            |
| 1904                   | -                     | 0/10<br>(%)                           | -         | 6544%    | 4803%  | 4196% | 4491% | 1598%  |              | 3778%                                 |          | 2322%    |    | 571%   |              | 321%        | 88.2     | 192% | 208% | 208% | 320%     | 206% | 1879 | 1194%  | %0     | ğ        | 88   | %406      |     | %0         | 8    | %0   |              | 8            |
| Asserted to            | Cor to the age and a  | 02=F.H.F                              | $\vdash$  | 0.8      | 1      | 1     | 1     | †      | +-           | 0.5                                   | F        | 1.3      |    | 8.1    |              | 9.4         | 4.6      | ╁    | ╁╌   | ╁╴   | ╁        | ╁    | t    | +-     | 1      | 3        | 3    | 66        |     | 5.0        | 0.5  | 0.5  |              | 0.5          |
| 2                      |                       | Contribudi Q2<br>ng Popn              | -         | 7.5      | ╀╌     | +     | -     | 18     | -            | \$                                    |          | ži<br>Ži |    | 780    |              | Š           | 8        | SOS  | ş    | ğ    | Š        | 8    | 88   | \$   F | 653    | S S      | 8    | 8         |     | 84         | 84   | 84   | <u> </u>     | 48           |
|                        | ž                     | Ola-Capa Cor<br>city (L/s) ng         | ╁         | 200      | 38.5   | 23.7  | ) ç   | 0 61   | 9            | 18.9                                  |          | 30.2     |    | 46.4   |              | 30.3        | 2        | - ×  | Į v  | ž    | <u> </u> | į    | 5 2  | 118.6  | o c    | 90       | 2 2  | 000       |     | 8          | 000  | 000  | <del> </del> | 0.0          |
|                        | and Capacity          | Die in mm Ot.                         | -         | 0.5      | +-     | +     |       | ╁      | ╁            | 50                                    | ╄        | 8        | -  | 288    | -            | 8           | ╁        | 5    | 160  | 3 5  | 3 5      | 3 5  | 3 9  | 3 8    | ╁      | <u> </u> | 5 5  | ٤         | -   | 150        | 05.  | 3 82 |              | 150          |
|                        | Existing Pipe Details | Gradient Dia                          | $\dagger$ | 001      | $\bot$ | -     | +     | ╀      | <del> </del> | 4 %                                   | ╀        | 39.4     |    | 000    | -            | 30.5        | <u>~</u> | 24.5 |      | 237  | 2 6      |      |      | 2 8    | 3 5    | )<br>}   | 2 6  | 267.2     |     | 0,0        | 00   | 0.0  | ;            | 0.0          |
| 9                      | xisting P             | Lange in                              | +         | -        | ╁      | +     | 3 5   | ╁      | \$           | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ╁        | 48       | -  | 280    | ╁            | \\ \times \ | ╁        | ╁    | ╁    | +    | ╁        | +    | 2 2  | 2 5    | +      | :  %     | ર જ  | $\dagger$ | +   | 37         | 3,6  | 3 4  | +            | 27           |
| Paga                   | -                     | 3                                     |           | 1        | 1      | 1     | 1.    | 1      | 14.10        | 6. 2.                                 | 1        | 12.76    | -  | 12.76  | <del> </del> | 05.01       | 200      | 3 5  | 70.0 | +o.  | \$ 2.5   | Cir. | 3 3  | 8      | -      | -        | +    | 1         | 7   | $\dagger$  | +    | +    | +            | <del> </del> |
|                        | MHIL                  | SG II SA                              | +         | -        | +      |       |       | -      | 14.44        | 7 60                                  |          | 14.10    | +- | 18.36  | +-           | 12.00       |          | ┿    |      | +    | -}-      |      |      | -      | 91:0   |          | +    | +         | +   | +          | +    | +    | +            | +-           |
| 2                      | یو                    | SA HW SQ                              | +         | ╁        | _      | +     | +     | -      | %<br>2       |                                       | •        | 77       | ╁╴ | 15     | $\dagger$    | +           | +        | ╅    | +    | +    | +        |      | +    |        | ╁      | 010      | ) ic | 01.       | ,   | <br> -<br> | 3 9  | 2 %  | 4            | 18           |
| Area Covered           | Sewer Line            | N ON NO                               | +         | +        | +      | +     | +     | +      |              |                                       | 2        | ×.       | ╁  | , 424  | +            | +           | -        | وا   | +    | +    | ╫        | -+   | +    | +      | +      | +        | +    | +         | 310 | - -        | ; [6 | 3 6  | <u> </u>     | 22           |

į,

| Use   Use   Use   Craster   Paris   Paris   Craster   Paris   Use   Us   | Area Covered | NA.  |       | Paga           | Pie De             | aite and Co | america |                | estocke or         | or for 19 | 2         | 12                    | x adequa                                | cy for 20    | 8.        | Ž                 | pe adequi          | Pipe adequacy for 2015 | 15             |
|--|--------------|------|-------|----------------|--------------------|-------------|---------|----------------|--------------------|-----------|-----------|-----------------------|---|--------------|-----------|-------------------|--------------------|------------------------|----------------|
| 15   0.0   150   0.0   144   1.5   0.56   NG   195   2.0   0.56   NG   228   2.4   0.56   0.0   150   0.0   144   1.5   0.56   NG   195   2.0   0.56   NG   228   2.4   0.56   0.0   150   0.0   48   0.5   0.56   NG   65   0.7   0.56   NG   75   0.8   0.5   0.56   0.5   0.56   0.5   0.56   0.5   | ≤            |      | 1     | Length in      | Gradient<br>(0/00) | Die le mm   | 悬金      | Contrib        | 92=P.H.F<br>in L's | 91/92     | Judgement | Contributi<br>ng Popu | الله الله الله الله الله الله الله الله | Q1/Q2<br>(%) | Judgement | Contrib<br>Rg Poy | Q2=P.H.S<br>in L/s | (%)<br>70/10           | Jud gemen      |
| 15   10   15   10   144   15   15   15   15   15   15   1  |              | 1    |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 14.0   15.0   15.0   15.0   14.4   1.5   10.5   1   | 1            | T    |       | 1.5            | 0.0                | 150         | 0.0     | 44             | 1.5                | %0        | ž         | 195                   | 2.0                                     | 0%           | Ņ         | 228               | 2.4                | %0                     | NG             |
| 47   0.00   150   0.00   48   0.5   0.6   NG   65   0.7   0.76   NG   76   0.8   0.9   0.9   0.9   0.0   0   | ļ            | Γ    |       | 8 <del>7</del> | 0.0                | 150         | 0.0     | <u>4</u>       | 1.5                | 0%0       | S         | 261                   | 2.0                                     | 9%0          | S.        | 228               | 2.4                | %0                     | S <sub>N</sub> |
| 47         0.0         150         0.0         48         0.5         0.6         65         0.7         0.6         NG         76         0.7         0.6         0.0         98         0.0         0.0         48         0.5         0.6         NG         65         0.7         0.6         NG         76         0.7         0.6         0.6         0.6         0.7         0.6         0.6         0.7         <   | ì            |      |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,   | 1            |      |       | 47             | 0.0                | 120         | 0.0     | 48             | 0.5                | %0        | δ         | \$                    | 0.7                                     | %0           | NG.       | 76                | 0.8                | %0                     | S              |
| 49         0.0         150         0.0         48         0.5         0.6         NG         65         0.7         0.6         NG         76         0.8         0.6         0.6         0.0         150         0.0         48         0.5         0.6         NG         65         0.7         0.6         NG         76         0.8         0.6         0.7         0.6         0.6         0.7         0.6         0.6         0.7         0.6         <   |              |      |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 40   0.0   150   0.0   48   0.5   0.6   NG   65   0.7   0.66   NG   75   0.8   0.6   |              |      |       | 49             | 0.0                | 150         | 0.0     | 48             | 0.5                | 0%0       | Ŋ         | 65                    | 0.7                                     | %0           | SC        | 76                | 9.0                | 0%                     | S              |
| 38         0.0         130         0.0         144         1.5         0.6         NG         455         4.7         0.6         NG         220         0.6         NG         232         2.4         0.6           9.97         70         1.5         0.0         1.3         0.5         3.5         0.6         NG         4.5         4.7         0.6         NG         2.5         0.6           11.53         0.7         1.8         0.7         0.6         4.1         4.4         4.79%         OK         4.2         4.5         0.6           11.53         0.7         1.8         4.0         4.2         4.3         4.4         4.79%         OK         4.2         4.5         4.5         4.5         1.5         6.6         1.5         OK         4.2         4.5         0.6         4.5         1.0         0.6         4.5         1.0         0.6         4.1         4.4         5.0%         OK         4.2         4.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5         1.5   |              |      |       | 40             | 0.0                | 150         | 0.0     | ×7             | 0.5                | %0        | NG        | \$9                   | 7:0                                     | %0           | Š         | 26                | 0.8                | %0                     | SS             |
| 1.50   1.50   1.50   1.50   1.44   1.5   1.50   1   |              |      |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 9.97         7.0         8.0         8.0         4.5         4.5         4.7         0%         8.5         5.5         0%           14.3.3         4.7         18.7         18.7         18.6         4.0         4.5         4.5         4.7         0%         8.5         5.5         0%           11.3.9         1.8         4.0         1.2         4.99%         OK         4.18         4.4         4.79%         OK         4.2         4.60%           11.59         1.9         1.42.1         1.50         2.2.1         4.01         4.2         1.38%         OK         4.18         4.4         4.79%         OK         4.2         4.60%           9.97         7.7         2.10         1.50         2.2.1         4.01         4.2         1.38%         OK         4.18         4.4         4.79%         OK         4.2         4.60%           9.97         7.7         1.00         1.5         4.01         4.2         1.38%         OK         4.18         4.4         4.79%         OK         4.2         4.60%           9.32         1.0         1.0         4.2         1.2         1.28%         OK         4.18         4.4   |              |      |       | 38             | 0.0                | 150         | 0.0     | 144            | 1.5                | <b>%0</b> | ŊĊ        | 195                   | 0.0                                     | %0           | Se        | 228               | 2.4                | 8                      | Š              |
| 9,97         70         7   |              |      |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        | ١              |
| 14.33 47 187 150 20.8 401 4.2 499% OK 418 4.4 479% OK 429 4.5 466% 9.9 19 14.42 150 57.8 401 4.2 1385% OK 418 4.4 1372% OK 429 4.5 1294% 9.9 19 14.42 150 57.8 401 4.2 579% OK 418 4.4 507% OK 429 4.5 1294% 9.9 19 14.42 150 22.1 401 4.2 579% OK 418 4.4 507% OK 429 4.5 1294% 9.9 19 14.42 10.0 150 |              |      | 76.6  | 70             |                    |             |         | 336            | 3.5                | 9%        | NG.       | 455                   | 4.7                                     | 0%0          | Š         | 532               | 5.5                | %0                     | S              |
| 14.33 47 187 150 20.8 401 4.2 499% OK 418 4.4 479% OK 429 4.5 450% 450 11.59 194 14.2 150 57.8 401 4.2 1385% OK 418 4.4 1528% OK 429 4.5 1294% 9.97 77 21.0 150 22.1 401 4.2 529% OK 418 4.4 1528% OK 429 4.5 1294% 9.97 77 21.0 150 22.1 401 4.2 529% OK 418 4.4 1528% OK 429 4.5 1294% 9.93 19.2 10.0 150 0.0 48 0.5 17573% OK 10.8 0.7 12977% OK 76 0.8 1009% 9.32 28 332.9 150 87.9 48 0.5 17573% OK 1068 11.1 323% OK 1189 12.4 250% 9.93 0.0 150 0.0 1873 19.5 186% OK 2380 24.8 10.0 0% NG 120 13 0.% 13 0.% 17.8 10.0 150 0.0 45 0.5 0.5 NG 2380 24.8 10.0 0% NG 120 13 0.% 13 0.% 12.4 127% 12.8 10.0 0.0 150 0.0 45 0.5 0.5 NG 2380 24.8 10.0 0% NG 120 13 0.% 13 0.% 12.8 12.9 12.9 12.9 12.9 12.9 12.9 12.9 12.9   |              | _    |       |                | 1                  |             |         |                |                    |           | 1         |                       | 1                                       |              |           |                   |                    | 3                      | ;              |
| 11.59         19         144.2         150         57.8         401         42         1385%         OK         418         44         1328%         OK         429         425         425         425         425         425         425         425         425         425         425         426         425         425         426         A25         A25         OK         418         44         507%         OK         425         425         425         426         425         425         426         425         425         426         426         426         426         426         426         426         426         426         426         426         426         426         426         427         426         426         426         426         426         427         427         426         426         426         427 </td <td></td> <td>5.21</td> <td>14.33</td> <td>47</td> <td>18.7</td> <td>150</td> <td>20.8</td> <td>401</td> <td>4.2</td> <td>499%</td> <td>ŏ</td> <td>418</td> <td>4.4</td> <td>479%</td> <td>ĕ</td> <td>429</td> <td>4.5</td> <td>%99<del>1</del></td> <td>ĕ</td>   |              | 5.21 | 14.33 | 47             | 18.7               | 150         | 20.8    | 401            | 4.2                | 499%      | ŏ         | 418                   | 4.4                                     | 479%         | ĕ         | 429               | 4.5                | %99 <del>1</del>       | ĕ              |
| 9.37         7.7         21.0         150         22.1         401         4.2         529%         OK         418         4.4         507%         OK         429         0.0         45         4.5         450         OK         418         6.7         0.0         45         0.0         785         82         0%         NG         0.0         NG         1037         10.8         0%  |              | 4.33 | 11.59 | 61             | 144.2              | 150         | 57.8    | 401            |                    | 1385%     | ŏ         | 418                   | 4.4                                     | 1328%        | ă         | 429               | 4.5                | 1294%                  | ğ              |
| 9.32         42         0.0         150         48         0.5         0%         NG         9.8         9.8         0%         NG         1037         10.8         0%           9.32         2.8         0.0         150         0.0         48         0.5         0%         NG         65         0.7         0%         NG         76         0.8         0%           9.32         2.8         150         87.9         48         0.5         17573%         OX         0.7         0%         NG         76         0.8         11089%           5.21         7.4         55.5         150         35.9         881         9.2         391%         OX         11.1         323%         OX         11.8         11.2         290%           5.21         7.4         55.5         150         36.2         1873         19.5         186%         OX         24.8         146%         OX         17.4         19.6           5.21         7.4         150         0.0         1873         19.5         186%         OX         23.8         24.8         146%         OX         17.4         19.9           7         1.7         0.0 <td></td> <td>1.59</td> <td>6.97</td> <td>1.1</td> <td>21.0</td> <td>150</td> <td>22.1</td> <td><del>1</del>0</td> <td>4,2</td> <td>529%</td> <td>Š</td> <td>418</td> <td>4.4</td> <td>507%</td> <td>ă</td> <td>429</td> <td>4.5</td> <td>494%</td> <td>ă</td>   |              | 1.59 | 6.97  | 1.1            | 21.0               | 150         | 22.1    | <del>1</del> 0 | 4,2                | 529%      | Š         | 418                   | 4.4                                     | 507%         | ă         | 429               | 4.5                | 494%                   | ă              |
| 9.32         42         0.0         785         8.2         0.0         NG         938         9.8         0.6         NG         1037         1037         1038         0.6           9.32         28         0.0         150         0.0         48         0.5         17573%         OK         65         0.7         0.6         NG         76         0.8         0.6           9.32         2.8         150         48         0.5         17573%         OK         65         0.7         0.7         0.6         NG         76         0.8         11089%           5.21         7.4         55.5         150         87.9         48         0.5         17573%         OK         10.8         11.1         323%         OK         11.89         12.4         290%           5.21         1.50         1.50         1.87         1.86%         OK         23.8         1.46%         OK         17.4         290%           6         1.7         0.0         1.87         1.95         1.86%         OK         2.8         1.0         0.0         1.2         2.8         0.8         1.1         2.8         1.2         2.8         0.8   |              |      |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 42         0.0         150         0.0         48         0.5         17573%         OK         65         0.7         0.7%         NG         76         0.8         0.8         11089%           9.32         2.8         150         87.9         48         0.5         17573%         OK         65         0.7         12977%         OK         76         0.8         11089%           5.21         7.4         55.5         150         35.9         881         9.2         391%         OK         1068         11.1         323%         OK         1189         12.4         290%           5.21         7.4         55.5         150         36.2         1873         19.5         186%         OK         2380         24.8         146%         OK         2731         28.4         127%           5         5         6.0         150         0.0         1873         19.5         186%         OK         2380         24.8         10%         NG         2731         28.4         0%           1         0.0         150         0.0         1873         19.5         0%         NG         24.8         1.0         0%         NG  |              | 76.0 | 9.32  |                |                    |             | 0.0     | 785            | 8.2                | %0        | ž         | 838                   | 8.6                                     | %0           | ž         | 1037              | 10.8               |                        | Σ              |
| 42         0.0         150         0.0         48         0.5         0%         NG         65         0.7         0%         NG         76         0.8         0.7         0%         NG         0%         NG         65         0.7         0%         NG         76         0.8         0%         0%           9.32         28         150         87.9         48         0.5         17573%         OK         1068         11.1         323%         OK         1189         12.4         290%           5.21         7.4         55.5         150         35.2         1873         19.5         391%         OK         10.6         11.1         323%         OK         1189         12.4         290%           0.0         150         1873         19.5         186%         OK         2380         24.8         OK         NG         2731         28.4         0%           0.0         150         0.0         1873         19.5         0%         NG         24.8         0%         NG         2731         28.4         0%           0.0         150         0.0         45         0.5         0.6         NG         0.6  |              |      |       |                |                    |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 9.32         2.8         150         87.9         48         0.5         17573%         OK         65         0.7         12977%         OK         76         0.8         11099%           5.21         74         55.5         150         35.9         881         9.2         391%         OK         1068         11.1         323%         OK         1189         12.4         290%           6         2.2         150         35.2         1873         19.5         186%         OK         2380         24.8         OK         17.4         290%           7         58         0.0         150         0.0         1873         19.5         0%         NG         24.8         0%         NG         2731         28.4         127%           7         0.0         150         0.0         1873         19.5         0%         NG         24.8         0%         NG         2731         28.4         127%           8         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         13         0%         0%         0%         0%         0%         0%   |              |      |       | 42             | 0.0                | 150         | 0.0     | 48             | 0.5                | 950       | S<br>N    | \$\$                  | 0.7                                     | %0           | S         | 92                | 8:0                | 88                     | ž              |
| 5.21         74         55.5         150         35.9         881         9.2         391%         OK         1068         11.1         323%         OK         1189         12.4         290%           5.21         74         55.5         150         36.2         1873         19.5         186%         OK         2380         24.8         OK         2731         28.4         127%           5.8         0.0         150         0.0         1873         19.5         0%         NG         2380         24.8         O%         NG         2731         28.4         127%           6         17         0.0         150         0.0         1873         19.5         0%         NG         24.8         0%         NG         2731         28.4         127%           7         1.0         1.0         1.0         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.3         0%         1.3         0%           8         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.3         0% <t< td=""><td></td><td></td><td>9.32</td><td>28</td><td>332.9</td><td>150</td><td>6.78</td><td>8,7</td><td></td><td>17573%</td><td>ò</td><td>65</td><td></td><td>12977%</td><td>ğ</td><td>3,</td><td>0.8</td><td>11099%</td><td>乡</td></t<>  |              |      | 9.32  | 28             | 332.9              | 150         | 6.78    | 8,7            |                    | 17573%    | ò         | 65                    |   | 12977%       | ğ         | 3,                | 0.8                | 11099%                 | 乡              |
| 5.21         74         55.5         150         35.9         881         9.2         391%         OK         1068         11.1         323%         OK         1189         12.4         290%           1         5.6         150         36.2         1873         19.5         186%         OK         2380         24.8         OK         2731         28.4         127%           1         5.8         0.0         150         0.0         1873         19.5         0%         NG         2380         24.8         0%         NG         2731         28.4         0%           1         0.0         150         0.0         1873         19.5         0%         NG         2380         24.8         0%         NG         2731         28.4         0%           1         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.3         0%  |              |      |       |                | -                  |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 92         56.6         150         36.2         1873         19.5         186%         OK         23.80         24.8         146%         OK         2731         28.4         127%           83         0.0         150         0.0         1873         19.5         0%         NG         23.8         24.8         0%         NG         2731         28.4         0%           17         0.0         150         0.0         45         0.5         0%         NG         1.0         0%         NG         1.3         0%           10         0.0         150         0.0         45         0.5         0%         NG         2568         26.8         0%         NG         1.3         0%           1.26         1.0         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150  |              | 32   | 5.21  | 74             | \$5.5              | 150         | 35.9    | 881            | 9.2                | 391%      | š         | 1068                  | 1:1                                     | 323%         | š         | 1189              | 12.4               | 290%                   | ă              |
| 92         56.6         150         36.2         1873         19.5         186%         OK         24.8         146%         OK         2731         28.4         127%           88         0.0         150         0.0         1873         19.5         0%         NG         24.8         0%         NG         2731         28.4         127%           17         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.2         0%         1.3         0%           1         0         0.0         150         0.0         45         0.5         0%         NG         10         0%         NG         1.3         0%           1         0         0.0         150         0.0         45         0.5         0%         NG         2568         26.8         0%         NG         2971         30.9         0%           1.26         1.26         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0         150         0.0  |              |      |       |                |                    |             |         |                |                    |           | :         |                       |   |              | 1         |                   |                    |                        |                |
| 58         0.0         150         0.0         1873         19.5         0%         NG         23.80         24.8         0%         NG         2731         28.4         0%           17         0.0         150         0.0         45         0.5         0.6         NG         94         1.0         0%         NG         120         1.3         0%           10         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.3         0%           10         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.3         0%           10         0.0         150         0.0         45         0.5         0%         NG         2568         26.8         0%         NG         2971         30.9         0%           13         96.9         150         47.4         1963         20.4         232.%         0K         2568         26.8         177%         0K         2971         30.9         153%  |              | 5.21 |       | 55             | 56.6               | 150         | 36.2    | 1873           | 5.61               | 186%      | ОК        | 2380                  | 24.8                                    | 146%         | OK        | 2731              | 28.4               | 127%                   | ð              |
| 17         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         1.3         0%           9         0.0         150         0.0         45         0.5         0%         NG         94         1.0         0%         NG         120         1.3         0%           10         0.0         150         0.0         45         0.5         0%         NG         2568         26.8         0%         NG         2971         30.9         0%           13         96.9         150         47.4         1963         20.4         232%         0K         2568         26.8         177%         0K         2971         30.9         153%  |              |      |       | 58             | 0,0                | 150         | 0.0     | 1873           | 19.5               | %0        | SK        | 2380                  | 24.8                                    | 20           | SC        | 2731              | 28.4               | %                      | Z              |
| 17         0.0         150         0.0         45         0.5         0.6         NG         94         1.0         0.6         NG         1.2         1.3         0.6           9         0.0         150         0.0         45         0.5         0.6         NG         94         1.0         0.6         1.2         1.3         0.6           10         0.0         150         0.0         1963         20.4         0.6         2568         26.8         0.6         NG         2971         30.9         0.7           13         96.9         150         47.4         1963         20.4         232%         0.K         2568         26.8         177%         0.K         2971         30.9         153%  |              |      |       |                |                    | :           | :       |                |                    | ·         |           |                       |   |              |           |                   |                    |                        |                |
| 9         0.0         150         0.0         45         0.5         0.6         NG         94         1.0         0.6         NG         120         1.3         0.6           10         0.0         150         0.0         1963         20.4         0.6         NG         2568         26.8         0.6         NG         2971         30.9         0.6           13         96.9         150         47.4         1963         20.4         232.9         0.K         2568         26.8         177%         0.K         2971         30.9         153%  |              | Γ    |       | 17             | 0.0                | 150         | 0.0     | \$\$           | 0.5                | %0        | NG        | . \$6                 | 1.0                                     | %0           | NG        | 120               | 1.3                | %0                     | ž              |
| 10 0.0 150 0.0 1963 20.4 0% NG 2568 26.8 0% NG 2971 30.9 0% 153 96.9 150 47.4 1963 20.4 232% OK 2568 26.8 177% OK 2971 30.9 153%   |              |      |       | 6              | 0.0                | 150         | 0.0     | \$             | 0.5                | %0        | ÖZ        | 97                    | 1.0                                     | %0           | NG        | 120 .             | 1.3                | 0%                     | S              |
| 10 0.0 150 0.0 1963 20.4 0% NG 2568 26.8 0% NG 2971 30.9 0% 153 96.9 150 47.4 1963 20.4 232% OK 2568 26.8 177% OK 2971 30.9 153%   |              |      | ļ     |                | 1                  |             |         |                |                    |           |           |                       |   |              |           |                   |                    |                        |                |
| 13 96.9 150 47.4 1963 20.4 232% OK 2568 26.8 177% OK 2971 30.9 153%  |              | -    |       | 2              | 0.0                | 35          | 0;      | 1963           | 20.4               | %0        | Š         | 2568                  | 26.8                                    | . %0         | NG        | 2971              | 30.9               | 260                    | ž              |
|  |              |      | 1.26  | 13             | 96.9               | 150         | 474     | 1963           | 20.4               | 232%      | ÖK        | 2568                  | 26.8                                    | 177%         | οĸ        | 2971              | 30.9               | 153%                   | ŏ              |

| r  |                                    |                       |      | -    |      | —т       |      | - , | 1    | <del>-</del> 1- | ~     | - 1   |     | -r     | <br>-т | 3     | 1     | · · · · · · · · · · · · · · · · · · · |        | Т      | Т      | Т      | 7 |       | $\neg$ | <br>Т    | 1      | <br>Т    | _     | т     | $\neg$ |
|--|------------------------------------|-----------------------|------|------|------|----------|------|-----|------|-----------------|-------|-------|-----|--------|--------|-------|-------|---------------------------------------|--------|--------|--------|--------|---|-------|--------|----------|--------|----------|-------|-------|--------|
| 8  |                                    | Judgement             | ž    | g    | ž    | Š        | ξ    |     | 욋    |                 | ă     | ă     | - [ | ă      | ŏ      | ð     | ž     |                                       | ð      |        | ð      | ŏ      |   |       | ĕ      | <br>- 1  | ŏ      | ă        |       |       | ž      |
| Pipe adequacy for 2015   |                                    |                       | \$2% | 34%  | \$0% | %0       | 23%  |     | 3%   | 1               | 7587% | 934%  |     | 20841% | 1486%  | 807%  | 24%   |                                       | 15079% | 18307% | 12908% | 18416% |   | 1547% | S\$4%  | 7564%    | 25846% | 636%     | 783%  | 2001% | 8      |
| e adequa   |                                    | Q7-P.H.F.<br>in L/s   | 30.9 | 30.9 | 30.9 | 30.9     | 30.9 |     | 57.3 |                 | S     | 3.9   |     | 0.3    | 4.4    | 4.4   | 4.4   |                                       | 03     | 0.3    | 0.3    | 0.3    |   | \$    | 4.9    | 0,3      | 8      | 5.5      | 22    | 5.5   | 5.8    |
| Ē  |                                    | Contributi<br>ng Popn | 2971 | 2971 | 2971 | 2971     | 2971 |     | 6113 |                 | ы     | 375   |     | 22     | 425    | 425   | 425   |                                       | 25     | 23     | 22     | X      |   | 475   | 475    | 23       | ß      | \$25     | 23    | \$25  | 553    |
| S  |                                    | Judgerment            | Ŋ    | Š    | ă    | S        | Š    |     | S.   |                 | ğ     | ă     | - I | ğ      | ĕ      | OK    | NC    |                                       | УО     | ğ      | ğ      | š      |   | ð     | ă      | ă        | ğ      | ĕ        | ğ     | ğ     | ž      |
| Pipe adequacy for 2005   |                                    | Q1/Q2<br>(%)          | %09  | 39%  | 28%  | %0       | 26%  |     | 4%   |                 | 7587% | 934%  |     | 20841% | 1486%  | 807%  | 54%   |                                       | 15079% | 18307% | 12908% | 18416% |   | 1547% | 5528   | 7564%    | 25846% | 636%     | 783%  | 2001% | %      |
| e adequa   |                                    | Q2=P.H.F<br>in L/s    | 26.8 | 26.8 | 26.8 | 26.8     | 26.8 |     | 50.2 |                 | 0.3   | 3.9   |     | 0.3    | 4,4    | 4.4   | 4,4   |                                       | 0.3    | 0.3    | 6.0    | 0.3    |   | 4,9   | 4.9    | 0.3      | 8      | 5.5      | 5.5   | 5.5   | 5.7    |
|  |                                    | Centribud<br>ng Pepn  | 2568 | 2568 | 2568 | 2568     | 2568 |     | 5357 |                 | អ     | 375   |     | 52     | 425    | 425   | 425   |                                       | x      | 25     | 25     | 25     |   | 475   | 475    | 25       | x      | <br>\$25 | \$25  | \$25  | 550    |
| <u> </u>   |                                    | Jacobson              | ž    | S    | Š    | 52       | 2    |     | Ŋ    |                 | ğ     | ğ     |     | ğ      | OK     | ОК    | S     |                                       | š      | ğ      | ğ      | 용      | - | ŏ     | ğ      | ŏ        | ğ      | ŏ        | క     | ğ     | ğ      |
| Dina adamson for 1995  |                                    | (%)                   | 200% | 51%  | 75%  | %        | 34%  |     | 5%   |                 | 7587% | 934%  |     | 20841% | 1486%  | %408  | 54%   |                                       | 15079% | 18307% | 12908% | 18416% |   | 1547% | 554%   | 7564%    | 25846% | 636%     | 783%  | 2001% | %      |
| i de la constante de la consta | 1                                  | 02-P.H.P              | 20.4 | 20.4 | 20.4 | 20.4     | 20.4 |     | 39.5 |                 | 0.3   | 3.9   |     | 0.3    | 4,4    | 4.4   | 4.4   |                                       | 0.3    | 0.3    | ខ      | 0.3    |   | 4.9   | 4,9    | 0.3      | 0.3    | 55       | 55    | 5.5   | 5.5    |
| Į.   |                                    | Contributi<br>ng Popa | 1963 | 188  | 1963 | 1963     | 1963 |     | 3788 |                 | 22    | 375   |     | 25     | 425    | 425   | 425   |                                       | 22     | 25     | ង      | ß      |   | 475   | 475    | 25       | 25     | 525      | 525   | \$23  | 525    |
|  | â                                  | O1-Cape<br>otty (L/s) | 1.6  | 10.5 | 15.4 | a        | 7.0  |     | 2.0  |                 | 19.8  | 36.5  |     | 54.3   | 65.8   | 35.7  | 2.4   |                                       | 39.3   | 47.7   | 33.6   | 48.0   |   | 76.6  | 27.4   | <br>19.7 | 67.3   | 34.8     | 42.8  | 109.4 | 0.0    |
|  |                                    | Dia to mm             | 85   | 55   | 9    | 2        | 150  |     | 150  |                 | 150   | 150   |     | 150    | 150    | 150   | 8     |                                       | 150    | 150    | 55     | 150    |   | 150   | 150    | 150      | જુ     | 150      | 150   | 150   | 35     |
| i  | Existing ripe between and Capacity | Gradlent (0/00)       | 12   | ×    | 10.3 | 3 8      | 2 1  |     | 0.2  |                 | 16.8  | 57.4  |     | 127.0  | 186.7  | 55.0  | 0.2   |                                       | 5.65   | 98.0   | 48.7   | 99.2   |   | 252.8 | 32.4   | 16.7     | 195.3  | 52.1     | 79.1  | 516.4 | 00     |
| Paga   | EXISTR                             | Length in             | Ş    | 8    | \$ 6 | 3 5      | 3 2  | ,   | 120  |                 | 4.    | 31    |     | 01     | 27     | 46    | 2     |                                       | 2      | 2      | g      | 12     |   | 18    | 22     | 55       | 47     | 88       | 63    | 33    | 1:     |
|  |                                    | <b>1</b> 1 %3         | 990  | 190  | 5    |          | 41.0 |     | 0.11 |                 | 43.01 | 41.23 |     | 41.23  | 36.19  | 33.66 | 33.65 |                                       | 35 34  | 34.36  | 32.46  | 33.65  |   | 29.10 | 27.45  | 36.63    | 27.45  | 22.34    | 17.8  |       |        |
|  | WHIL                               | ਜ਼ੇ<br>ਨ              | 76.1 | 3 5  | 3 3  | <u> </u> |      |     | 0.13 |                 | 43.70 | 43.01 |     | 42.50  | 41.23  | 36.10 | 33.66 |                                       | 37.80  | 35.34  | 34.36  | 32.46  |   | 33.65 | 29.10  | 37.55    | 36.63  | 27.45    | 22.34 | ;;    |        |
| vered  | Line                               | No No                 | 30.  | 3 3  | 3    | ¥ 8      | 9 5  | 3   | 101  |                 | 52    | 8     |     | જ      | 49     | 48    | 87    |                                       | ;      | € 2    | 8      | 82     |   | 7,4   | 4      | 33       | 3      | 3        | 42    | =     | 8      |
| Arca Covered   | Sewer Line                         | CS MH                 | 135  | 33   | 2 3  | \$ 3     | 4 5  | 3   | 103  |                 | 53    | S     |     | 120    | ç      | 9     | 37    |                                       | 17.    | 1 2    | 2      | \$ 8   |   | £     | 1.4    | 3        | 3      | 4        | 43    | 3     | 4      |

| Area Covered | ş              |       | ſ     | Paga          |                    |   |                       | Š                                      | 10000              | Diam of anison for 1995 | ¥          | £                                     | Pine adequacy for 2005 | cv for 20    | 8         | F                    | se adequa         | Pipe adequacy for 2015 | 93        |
|--------------|----------------|-------|-------|---------------|--------------------|---|-----------------------|--|--------------------|-------------------------|------------|---------------------------------------|------------------------|--------------|-----------|----------------------|-------------------|------------------------|-----------|
| Sewer Line   | 2              | MHIL  | 3     | E.XGSON       | adu a              | E. XISONG L'IDE L'OCURIS MINI CALINCALY | i com                 |  | 2                  |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| <u> </u>     | DS MH          | US IL |       | Leagh<br>B in | Gradient<br>(0/90) | Die in num                              | QI-Capa<br>city (L/s) | Contributi Q2=P.H.F.<br>ng Popn in L/s | Q2=P.H.V<br>in L/s | Q1/Q2<br>(%)            | Judgastant | Contribute Q2-P.H.F<br>ng Popn in L/s | Q2-P.H.F<br>In L/s     | Q1/Q2<br>(%) | Judgement | Contribud<br>ng Popa | 72-7-420<br>T. Cs | \$\<br>(%)             | Judgement |
| 1            | +              | 8.25  | 6.54  | *             | 25.1               | 200                                     | 52.0                  | 1311                                   | 13.7               | 381%                    | New        | 1917                                  | 20.0                   | %097         | New       | 2442                 | 25.4              | 204%                   | New       |
|              | igg            |       |       |               |                    |   |                       |  |                    |                         |            |                                       | 1                      |              | - 1       | 3                    | 3                 | 2000                   | 1         |
|              | 25             |       | 6.54  | 29            | 225.5              | <u>5</u>                                | 72.3                  | 8                                      | 63                 | 27772%                  | ğ          | 25                                    | 0.3                    | 27772%       | ğ         | 23                   | 0.3               | 01.77/1/2              | Ś         |
|              | -              |       |       |               |                    |   |                       |  | :                  |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| <u> </u>     | 22             | 6.54  | 4.13  | 89            | 35.4               | 150                                     | 28.7                  | 1336                                   | 13.9               | 206%                    | ŏ          | 1942                                  | 20.2                   | 142%         | ğ         | 2467                 | 25.7              | 112%                   | ð         |
|              | $\vdash$       |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              | - 1       |                      |                   |                        |           |
| 1            | 25             | 27.60 | 25.06 | 42            | 60.5               | 150                                     | 37.5                  | 25                                     | 0.3                | 14382%                  | ΟK         | 23                                    | 0.3                    | 14382%       | - [       | x                    | ဗ                 | 14382%                 | ĕ         |
| <u> </u>     | ╁╌             | 25.06 | 20.91 | 2             | 81.4               | 150                                     | 43.4                  | 25                                     | 0.3                | 16682%                  | ğ          | 25                                    | 0.3                    | 16682%       | ĕ         | 33                   | S                 | 16682%                 | ğ         |
|              |                |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| Ļ            | 8              | 22.25 | 21.95 | 23            | 13.6               | 150                                     | 17.8                  | 25                                     | 0.3                | 6829%                   | OK         | 25                                    | 0.3                    | 6829%        | ğ         | 23                   | 63                | 6829%                  | ŏ         |
| Ļ            | ┿              | 21.95 | 20.91 | S             | 16.3               | 150                                     | 19.4                  | 23                                     | 63                 | 7455%                   | OK         | 25                                    | 0.3                    | 7455%        | ĕ         | B                    | g                 | 7455%                  | ğ         |
| _            | ╁              |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| <u> </u>     | 5              | 20.91 | 19.18 | 2             | 108.1              | 150                                     | 50.1                  | 35                                     | 80                 | \$210%                  | ğ          | 75                                    | 8.0                    | 6410%        | ŏ         | 75                   | 8.0               | 6410%                  | ă         |
|              | <del> </del>   | 19.18 | 17.54 | 84            | 34.2               | 150                                     | 28.2                  | 27                                     | 8'0                | 3603%                   | Š          | 75                                    | 0.8                    | 3603%        | δ         | 75                   | 8.0               | 3603%                  | ğ         |
| <u> </u>     | - <del> </del> | 17.52 | 14.98 | 27            | 34.1               | 150                                     | 28.1                  | 75                                     | 8.0                | 3601%                   | OK         | 7.5                                   | 0.8                    | 3601%        | ÖK        | 75                   | 8.0               | 3601%                  | ŏ         |
| 65           |                | 14.98 | 13,46 | 33            | 46.1               | 150                                     | 32.7                  | 75                                     | 8.0                | 4184%                   | š          | 75                                    | 0.8                    | 4184%        | ŏ         | 75                   | 8.0               | 4184%                  | 청         |
| 155          | †              | 13,46 | 12.36 | Z             | 13.1               | 150                                     | 17.4                  | 27                                     | 8.0                | 2231%                   | ΟĶ         | 75                                    | 8.0                    | 2231%        | ğ         | 75                   | 8.0               | 2231%                  | ð         |
| ╁            | +-             | 12.36 | 11.36 | e             | 17.5               | 150                                     | 20.2                  | 7.5                                    | 8.0                | 2582%                   | š          | 75                                    | 8.0                    | 2582%        | ğ         | 75                   | 8:0               | 2582%                  | ă         |
| +            | 1              | 11.36 | 4.13  | 8             | 81.2               | 150                                     | 43.4                  | 75                                     | 8.0                | 5556%                   | ΟK         | 75                                    | 0.8                    | 5556%        | ğ         | 75                   | 8.0               | 5556%                  | ğ         |
| -            | +-             |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| 63           | 8              | 11.02 | 86    | 42            | 24.5               | 150                                     | 23.8                  | 46                                     | 0.5                | 4977%                   | OK         | 102                                   | 1.1                    | 2245%        | ğ         | 120                  | 2.3               | 1908%                  | ă         |
| <u> </u>     | 1-             | 8.6   | 8.30  | \$9           | 26.0               | 150                                     | 24.6                  | 3                                      | 0.5                | \$125%                  | OK         | 102                                   | 1.1                    | 2311%        | ĕ         | 120                  | 1.3               | 1965%                  | ğ         |
| <u> </u>     | +-             |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| ļ _          | 8              | 19.23 | 9.92  | 3             | 232.8              | 150                                     | 73.5                  | 45                                     | 0.5                | 15674%                  | ХО         | 94                                    | 1.0                    | 7504%        | ğ         | 120                  | 1.3               | 5878%                  | ŏ         |
| 1-           | +-             | 9.92  | 8.30  | 82            | 57.9               | 3                                       | 36.6                  | \$\$                                   | 0.5                | 7815%                   | ŏ          | 76                                    | 1.0                    | 3741%        | ĕ         | 120                  | <u>~</u>          | 2931%                  | ă         |
| $\vdash$     | -              |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| 8            | 22             | 8.30  | 4.13  | 2             | 59.6               | 150                                     | 37.2                  | 136                                    | 1.4                | 2624%                   | οĶ         | 290                                   | 3.0                    | 1230%        | ð         | 38                   | 3.8               | 818                    | ğ         |
| <del> </del> |                |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| 22           | ន              | 4.13  | 2.80  | 72            | 18.5               | 150                                     | 20.7                  | 1592                                   | 16.6               | 125%                    | ĕ          | 2401                                  | 25.0                   | 83%          | ž         | 3022                 | 31.5              | 2599                   | S         |
|              |                | 4.13  | 2.80  | 72            | 18.5               | 300                                     | 44.6                  | 1592                                   | 16.6               | 269%                    | New        | 2401                                  | 25.0                   | 178%         | Š         | 3022                 | 31.5              | 142%                   | ž         |
|              |                |       |       |               |                    |   |                       |  |                    |                         |            |                                       |                        |              |           |                      |                   |                        |           |
| 215          | 8              | 3.35  | 2.80  | 62            | 6.8                | 150                                     | 14.3                  | 45                                     | 6.5                | 3060%                   | ok<br>K    | 8                                     | 1.0                    | 1465%        | ĕ         | 120                  | 1:3               | 1148%                  | ğ         |

| Area Covered | overed     |       |        | Paga     |                   |                                    |                      |                                      |                    |                        |            | ]                                     |                    |                        | ļ         | ř                     |                    |                        | ļ         |
|--------------|------------|-------|--------|----------|-------------------|------------------------------------|----------------------|--------------------------------------|--------------------|------------------------|------------|---------------------------------------|--------------------|------------------------|-----------|-----------------------|--------------------|------------------------|-----------|
| S.           | Sewer Line | ٤     | MH II. | Existin  | The Det           | Existing Pipe Details and Capacity | apacity              | Ĕ                                    | aded in            | Pipe adequacy for 1995 | 2          | ֓֞֞֞֞֜֞֞֜֞֞֞֞֜֞֜֞֞֞֞֜֞֞֞֞֞֞֞֞֞֞֞֞֞֞   | mbage x            | Pipe adequacy for 2005 | اء        | Ξ                     | an constant        | ripe aucquacy for 2015 |           |
| N. S. M.     | DS MH      | US H  | Ti Sa  | Leagthin | Gradent<br>(0/00) | Die in mm                          | OtaCapa<br>ory (L/s) | Contribut Q20P.H.F<br>ag Popn in 1/s | Q2-F.H.F<br>in L/s | QUQ2<br>(%)            | Juanaispor | Contributi O2=F.H.F<br>ng Popn in L/s | 02=P.H.F<br>in L/s | 03/05<br>(%)           | Judgement | Contributi<br>ng Popn | Q2=P.H.P<br>In L/s | \$1/Q5<br>(%)          | Judgement |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| 23           | 22         | 2.80  |        | 5        | 40.0              | 150                                | 30.5                 | 1682                                 | 17.5               | 174%                   | š          | 2589                                  | 27.0               | 113%                   | ×         | 3262                  | 34.0               | 206                    | NG        |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       | T                  |                        |           |                       |                    |                        |           |
| 83           | 67         |       |        | 16       | 0.0               | 150                                | 0.0                  | 45                                   | 0.5                | %0                     | S<br>N     | 45                                    | 0.1                | %0                     | ž         | 120                   | 1.3                | 8                      | Š         |
| .9           | 99         |       |        | 6        | 0.0               | 150                                | 0.0                  | 45                                   | 0.5                | 0%                     | ပွ         | 84                                    | 1.0                | %0                     | S         | 120                   | 1.3                | %0                     | Z         |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| رم<br>م      | 66         |       |        | 17       | 0.0               | 150                                | 0.0                  | 45                                   | 0.5                | %0                     | ž          | \$                                    | 0.                 | 8,0                    | Š         | 82                    | 1.3                | 0%                     | Š         |
|              |            |       |        |          |                   |                                    |                      | _                                    |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| 8            | 4          |       |        | 28       | 0.0               | 150                                | 0.0                  | 135                                  | 1.4                | 950                    | NG         | 282                                   | 2.9                | %0                     | S.        | 360                   | 3.8                | %0                     | Š         |
| 7            | ۴.         |       |        | 103      | 0.0               | 150                                | 0.0                  | 135                                  | 1.4                | %0                     | NG         | 282                                   | 2.9                | 0%                     | NG        | 360                   | 3.8                | 0%                     | NG        |
| 3            | 64         |       |        | 91       | 0.0               | 150                                | 0.0                  | 135                                  | 1.4                | %0                     | S<br>N     | 282                                   | 2.9                | %0                     | NG        | 360                   | 3.8                | 0%                     | NG        |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| 58           | 57         |       |        | 13       | 0.0               | 150                                | 0.0                  | 45                                   | 0.5                | %0                     | NG         | \$                                    | 1.0                | %0                     | NG        | 120                   | 1.3                | 0%                     | Š         |
| 22           | 56         |       |        | 11       | 00                | 150                                | 0.0                  | 45                                   | 0.5                | %0                     | SNG        | 56                                    | 1.0                | %0                     | NG        | 120                   | 1.3                | %0                     | Š         |
| 8            | 55         |       |        | 67       | 0.0               | 150                                | 0.0                  | 45                                   | 0.5                | 250                    | NG         | 94                                    | 1.0                | 260                    | Š         | 120                   | 1.3                | 0%                     | Š         |
| જ            | 7          |       |        | 4        | 0.0               | 150                                | 0.0                  | 45                                   | 0.5                | <b>%</b> 0             | DN         | 94                                    | 1.0                | 260                    | NG        | 120                   | 1.3                | %0                     | Ş         |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| 23           | 1          |       |        | 36       | 0.0               | 150                                | 0.0                  | 225                                  | 2.3                | %0                     | NG         | .470                                  | 4.9                | 0%0                    | NG        | 909                   | 6.3                | 250                    | Š         |
|              | 22         |       |        | 25       | 0.0               | 150                                | 0.0                  | 225                                  | 2.3                | %0                     | Š          | 470                                   | 4.9                | 9%0                    | S<br>S    | 89                    | 6.3                | %0                     | Š         |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    | - "                    |           |                       |                    |                        |           |
| 22           | 101        |       | 0.11   | 110      | 1.0               | 150                                | 8.4                  | 1952                                 | 20.3               | 24%                    | S          | 3153                                  | 32.8               | 15%                    | Š         | 2526                  | 26.3               | 18%                    | ğ         |
|              |            |       |        |          |                   |                                    |                      | 1                                    | 1                  |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| 183          | Į<br>Į     |       |        |          |                   |                                    |                      | 3788                                 |                    |                        | New        | 5357                                  |                    |                        | New       | 6113                  |                    |                        | New       |
|              |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |
| 101          | ጽ          |       |        |          |                   |                                    |                      | 5740                                 |                    |                        | New        | 8210                                  |                    |                        | Š         | 8639                  |                    |                        | New       |
|              |            |       |        |          |                   |                                    |                      |                                      |                    | 7                      |            |                                       |                    |                        |           |                       |                    |                        |           |
| 506          | 205        | 30.83 | 27.67  | 105      | 30.1              | 150                                | 26.4                 | \$                                   | 0.5                | 5636%                  | ğ          | 5.                                    | 0.5                | 4973%                  | š         | 51                    | 0.5                | 4973%                  | ŏ         |
| 205          | 204        | 27.67 | 20.99  | 16       | 417.5             | 150                                | 98.4                 | \$                                   | 0.5                | 20953%                 | ÖK         | 51                                    | 0.5                | 18523%                 | ă         | 12.                   | 0.5                | 18523%                 | š         |
| 204          | 203        | 20.99 | 16.25  | 59       | 163.4             | 150                                | 61.6                 | 45                                   | 0.5                | 13135%                 | OK         | 51                                    | 0.5                | 11590%                 | X         | .51                   | 0.5                | 11590%                 | ŏ         |
|              |            | :     | ·      |          |                   |                                    |                      |                                      | 7                  | î.                     |            | :                                     |                    |                        |           |                       |                    | :                      |           |
| 202          | 203        | 17.78 | 16.25  | 8        | 15.3              | 150                                | 18.8                 | 45                                   | 0.5                | 4019%                  | Ϋ́         | 5.                                    | 0.5                | 3546%                  | ож        | 51                    | 0.5                | 3546%                  | ğ         |
| -            |            |       |        |          |                   |                                    |                      |                                      |                    |                        |            |                                       |                    |                        |           |                       |                    |                        |           |

|                        |                                    | Judgement             | SK<br>SK |                | ž   | š      | ğ     | Š     |   | ă      | ğ      | ă      | ğ      |   | ă      | ĕ      |   | ă      | ă      | ğ      | ğ       | 췽     | ğ      | ă     | ă        | ă        | ð      | ă        | ă      |  |
|------------------------|------------------------------------|-----------------------|----------|----------------|-----|--------|-------|-------|---|--------|--------|--------|--------|---|--------|--------|---|--------|--------|--------|---------|-------|--------|-------|----------|----------|--------|----------|--------|--|
| Pipe adequacy for 2015 | -                                  | 70/10<br>(%)          | 6369%    | _ <del> </del> | 950 | S549%  | 2105% |       |   | 10011% | 4399%  | 22449% | 16303% |   | 18012% | 11561% |   | 7718%  | 15946% | 9886%  | 4115%   | 2320% | 7200%  | 3074% | 13622%   | 13814%   | 4647%  | 7872%    | 733%   |  |
| adequac                | -<br>                              | Q2-F.H.P<br>in L/s    | 1.6      |                | 9:0 | 9,0    | 9:    |       |   | 50     | 0.5    | 0.5    | 0.5    |   | 0.5    | 0.5    |   | 0.5    | 0.5    | 0.5    | 2.0     | 50    |        | 5.0   | 0.5      | 5.0      | 0.5    | 2.0      | 5.9    |  |
| i.E.                   | -                                  | Contribution R. Popn  | 153      |                | 28  | 58     | 58    | 797   | _ | 7.4    | 1,1    | 47     | 47     |   | 47     | 47     |   | 47     | 47     | 47     | <br>188 | 188   | 88     | 188   | 47       | 47       | 47     | 47       | 282    |  |
| [                      |                                    | Judgement             | οĸ       | _              | Š   | ОХ     | οĶ    | New   |   | Ř      | ΟĶ     | Ö      | OK     |   | ΟK     | OK     |   | ÖK     | Š      | ŏ      | ÖK      | ΟK    | ă      | ΟĶ    | ğ        | ğ        | š      | ð        | Š      |  |
| ev for 200             |                                    | Ø1/Q2<br>(%)          | 6369%    |                | %0  | 5549%  | 2105% |       |   | 13839% | %1809  | 31032% | 22536% |   | 24899% | 15981% |   | 10669% | 22043% | 13666% | \$888%  | 3207% | 9953%  | 4249% | 18830%   | 19096%   | 6424%  | 10882%   | 1014%  |  |
| Pipe adequacy for 2005 |                                    | Q2=P.H.F<br>in L/s    | 1.6      |                | 9.0 | 9.0    | 9.0   |       |   | 0.4    | 0.4    | 9.0    | 0.4    |   | 0.4    | 0.4    |   | 0.4    | 0.4    | 0.4    | 1.4     | 1.4   | 1.4    | 4.    | 6.0      | 0.4      | 0.4    | 0.4      | .;<br> |  |
| 8                      |                                    | Contribută<br>ng Popn | 153      |                | 28  | 58     | 58    | 262   |   | ¥      | \$     | 惠      | *      |   | 34     | 35     |   | 3,5    | Ŗ.     | 35     | 136     | 136   | 136    | 136   | 34       | 8        | 34     | æ        | ş      |  |
| \<br>\*                |                                    | Jodenson              | ŏ        |                | NG  | o<br>K | ğ     | New   |   | š      | ă      | ğ      | Ϋ́     |   | ğ      | ğ      |   | OK     | ğ      | ĕ      | ğ       | ØK    | OK     | ŏ     | OK<br>OK | ă        | ğ      | OK       | оХ     |  |
| Dies ademises for 1995 |                                    | 01/02                 | 7218%    |                | 860 | 6705%  | 2544% |       |   | 26140% | 11487% | 58616% | 42568% |   | 47032% | 30187% |   | 20153% | 41637% | 25813% | 10745%  | 6058% | 18800% | 8027% | 35569%   | 36071%   | 12135% | 20556%   | 1914%  |  |
| out of the second      | anhace a                           | Q2=P.H.F<br>in 1./s   | 1.4      | :              | 0.5 | 0.5    | 0.5   |       |   | 0.2    | 0.2    | 0.2    | 0.2    |   | 0.2    | 0,2    |   | 0.2    | 0.2    | 0.2    | 9.0     | 9.0   | 8.0    | 8.0   | 0.2      | 0.2      | 0.2    | 0.2      | 1:1    |  |
| 1                      |                                    | Centributi<br>ng Popa | 135      |                | 84  | 48     | 848   | 228   |   | ∞=     | 82     | 87     | 82     |   | 81     | 821    |   | 1.8    | 81     | 18     | 72      | 72    | 72     | 72    | 81       | <u>~</u> | 18     | 18       | 108    |  |
|                        | Aucour                             | Ol-Caye<br>dty (CA)   | 101.5    |                | 0.0 | 33.5   | 12.7  |       |   | 49.0   | 21.5   | 6,60   | 79.8   |   | 88.2   | 56.6   |   | 37.8   | 78.1   | 48.4   | 9.08    | 45.4  | 141.0  | 60.2  | 66.7     | 9.79     | 22.8   | 38.5     | 21.5   |  |
|                        | Dus and                            | Din in mm             | 55       |                | 150 | 35     | 150   | 200   |   | 150    | 150    | 55     | 150    |   | 150    | 32     |   | 150    | 150    | 150    | 150     | 150   | 150    | 150   | 150      | 82       | ই      | જુ       | 350    |  |
| i i                    | Existing Pipe Details and Capacity | Cradient (woo)        | 441.2    |                | 0.0 | 28.5   | 7.0   | 140.0 |   | 103.6  | 20.02  | \$20.8 | 274.7  |   | 335.3  | 138.1  |   | 61.6   | 262.8  | 101.0  | 280.0   | 89.0  | 857.1  | 156.3 | 191.8    | 197.2    | 22.3   | <u>a</u> | 20.0   |  |
| Paga                   | Existing                           | Length ia             | 33       |                | 38  | 2      | 53    |       |   | 35     | 00     | 12     | ž      |   | 17     | 2      |   | 32     | -<br>- | 2      | 2       | 2     | 4      | ~     | 17       | <u>~</u> | 88     | 52       | ខ្ព    |  |
|                        | 님                                  | DS 15.                | 1.59     |                |     | 2      | 1.59  |       |   | 1000   | 18.80  | 7, 70  |        |   | 103.85 | ٥      |   | 107.38 | Ę      | į      | 95.71   |       | 88.80  | 86.15 | 98.24    | 29.67    | 88.85  | 86.15    | 85.90  |  |
|                        | MH IL                              | 33<br>FI              | 16.25    |                |     |        | 1.89  |       |   | 124.80 | 38.0   | 118.78 | 104.74 |   | 30.55  | 48,60  | 1 | 100.35 | 107.38 | 102.64 | 101.59  | 95.70 | 94.80  | 87.40 | 97.50    | 24.22    | 90.10  | 88.84    | 86.10  |  |
| vered                  | Lino                               | No MH                 | 220      |                | 222 | 2      | 220   | ×     |   | 83     | · 😞    | S      | 3 6    |   | 86     | 3 2    | ` | 2      | 8.4    | ę.     | 20      | F     | 76     | 2     | 73       | 17       | 17     | 8        | 8      |  |
| Area Covered           | Sewer Line                         | CS XH                 | Ę        | }              | 223 | 233    | 1 2   | 220   |   | 23     | 3 8    | 3 5    | 5 5    | 3 | 2      | 3 3    | 8 | 2      | 38     | \$ 2   | 0,      | 20    | 1      | 92    | \$       | 73       | 22     | 2        | 8      |  |

ļ.

C.1.2-37

| S S                                | Judgement                              | ğ      | Š            | ğ     | ğ     | š         | ŏ      | ĕ     | Ŏ<br>X | ş      | ÖK     | ÖK       | ŏ      | OK     |   | ΟK     | ŎĶ.       | ğ      |         | ŏ     | ă      | Ö     | :             | ģ        |          | ă      | OK     | :   | ĕ      |
|------------------------------------|--|--------|--------------|-------|-------|-----------|--------|-------|--------|--------|--------|----------|--------|--------|---|--------|-----------|--------|---------|-------|--------|-------|---------------|----------|----------|--------|--------|-----|--------|
| Pipe adequacy for 2015             | Q1/Q2<br>(%)                           | 11794% | <br>435%     | 2666% | 2061% | <br>3390% | 9258%  | 1742% | 1645%  | 10549% | 14342% | 12142%   | 10207% | 17313% |   | 17171% | 16137%    | 14943% |         | 3787% | 1331%  | 1587% | :             | 292%     |          | 14166% | 10735% |     | 34810% |
| e adequa                           | 2,4,4 <u>-40</u>                       | 0.5    | 3.9          | 3.9   | 3.9   | 5,0       | 0.5    | 4.6   | 4.6    | 0.5    | 0.5    | 0.5      | 0.7    | 0.7    |   | 0.2    | 0.2       | 0.2    |         | 1.2   | 1.2    | 1.2   |               | 6.0      |          | 0.2    | 0.2    |     | 0.2    |
| Jid.                               | Conditional Q2=P.H.F<br>ng Popa in L/s | 47     | 376          | 376   | 376   | 47        | 47     | 444   | 444    | 49     | 49     | 46       | 70.    | .02    |   | 23     | 23        | 23     |         | 114   | 114    | 114   |               | 529      |          | 21     | 21     | :   | 27     |
| 80                                 | Judgement                              | ă      | Š            | ğ     | ĕ     | ğ         | OK     | OK    | ğ      | ŏ      | ΟK     | OK       | OK     | OK     |   | OK     | OK        | жо     |         | χ     | š      | OK    |               | OK<br>OK |          | ЭK     | OK     |     | ŏ      |
| ey for 20                          | 01/05<br>(%)                           | 16303% | %109<br>601% | 3685% | 2849% | 4686%     | 12797% | 2380% | 2248%  | 13254% | 180195 | 15255%   | 12318% | 20895% | : | 17171% | 16137%    | 14943% |         | 4317% | 1517%  | 1809% |               | 380%     |          | 15657% | 11866% | :   | 38474% |
| Pipe adequacy for 2005             | Centributi QZ=P.H.F.<br>ng Popm in L/s | 0.4    | 2.8          | 2.8   | 2.8   | 9.0       | 0.4    | 3.4   | 3,4    | 0.4    | 0.4    | 0.4      | 9.0    | 9.0    |   | 0.2    | 0.2       | 0.2    |         | 1.0   | 1.0    | 1.0   | -             | 4.6      |          | 0.2    | 0.2    |     | 0.2    |
| F.                                 | Centributi<br>ng Popn                  | \$     | 272          | 272   | 272   | ¥         | 34     | 325   | 325    | 39     | 39     | æ        | 58     | . 58   |   | 23     | . 23      | 23     |         | 100   | 100    | 100   |               | 444      |          | 19     | :.61   |     | 61     |
| ×                                  | Judgement                              | ă      | ŏ            | οX    | OK    | ğ         | ΟK     | OK    | OK     | OK     | OK     | ŏ        | OK     | οK     |   | ŏ      | ŏ         | οĸ     |         | OK    | ΟX     | УO    |               | ă        | 7        | ğ      | Ж      | : . | ă      |
| Pipe adequacy for 1995             | 01/02<br>(%)                           | 30795% | 1135%        | 6961% | 5381% | 8851%     | 24173% | 4346% | 4104%  | 28717% | 39041% | 33052%   | 21014% | 35645% |   | 17171% | 16137%    | 14943% | : :     | 5914% | 2078%  | 2478% | -             | 632%     | ; :<br>: | 18593% | 14090% | *** | 45688% |
| e adequa                           | 02~P.H.F<br>in LA                      | 0.2    | 1.5          | 1.5   | 1.5   | 0.2       | 0.2    | 1.9   | 1.9    | 0.2    | 0.2    | 0.2      | 4.0    | 0.4    |   | 0.2    | 0.2       | 0.2    |         | 0.8   | 0.8    | 8.0   |               | 2.8      |          | 0.2    | 0.2    |     | 0.2    |
| i d                                | Contributi O2=P.H.F<br>ng Popn in L/s  | 18     | 4            | 144   | 144   | 18        | 18     | 178   | 178    | 18     | 18     | 18       | 35     | 훘      |   | 23     | 23        | 23     |         | 73    | 73     | 73    |               | 267      |          | 91     | 16     |     | 25     |
| apacity                            | 03-05<br>aty (L/s)                     | 57.7   | 17.0         | 104,4 | 80.7  | 16.6      | 45.3   | 80.6  | 76.1   | 53.8   | 73.2   | 62.0     | 74.4   | 126.2  |   | 41.1   | 38.7      | 35.8   |         | 45.0  | 15.8   | 18.8  |               | 17.6     |          | 31.0   | 23.5   |     | 76.1   |
| Existing Pipe Details and Capacity | Dis in rum                             | 150    | 150          | 150   | 150   | 150       | 150    | 150   | 150    | 150    | 150    | 150      | 150    | 52     |   | 150    | 150       | 150    |         | 150   | 150    | 150   |               | 150      |          | 150    | 150    |     | 55     |
| R Pipe Det                         | Cradent<br>(9/00)                      | 143.8  | 12.5         | 470.0 | 280.9 | 11.9      | 88.6   | 280.0 | 249.6  | 125.0  | 231.0  | 165.6    | 238.8  | 687.1  |   | 73.0   | <b>\$</b> | 55.3   |         | 87.2  | 10.8   | 15.3  | <del></del> - | 13.3     |          | 41.4   | 23.8   |     | 250.0  |
| Existin                            | Length in                              | 48     | 12           | 10    | 47    | 32        | 35     | 37    | 56     | 56     | 29     | 8        | 42     | -      | • | 37     | \$\$      | 2,6    | -       | 8.2   | 56     | 49    | ::            | 15       |          | 57     | 45     |     | =      |
|                                    | E<br>S                                 | 85.90  | 85.71        | 81.00 | 96.80 | 69.90     | 66.80  | 55.40 | 47.98  | 89.95  | 82.30  | 2.2      | 10.19  | 56.20  |   | 63.30  | 60.40     | 56.20  |         | 10.64 | 48.73. | 47,98 | . :           | 47.78    |          | 49.54  | 48.43  | ;   | 67.40  |
| MH IL                              | S E                                    | 92.80  | 85.86        | 85.70 | 80.00 | 70.28     | 06:69  | 65.76 | 54.47  | 93.20  | 89.00  | <b>!</b> | 2.5    | 61.01  |   | 96.00  | 63.30     | 60.40  | <b></b> | 56.16 | 49.01  | 48.73 |               | 47.98    | = .      | 51.90  | 49.50  |     | 70.15  |
| Line                               | Ds MH                                  | 33     | 89           | 67    | Š     | 51        | 80     | 49    | 48     | 99     |        | 8        |        | 59     |   | 61     | Ι.        | 89     |         |       | 57     | 48    |               | 47       |          | 53     | . 25   |     | જ      |
| Sewer Line                         | es wh                                  | 75     | 69           | 89    | 19    | SI        | 51     | 80    | 67     | SI     | 8      | 8        | 3      | છ      |   | 3      | 61        | 99     |         | 59    | 58     | 23    |               | 84       |          | ¥      | . 53   |     | S      |

|                        | Γ                                  | ŭ                     | <u>.</u> | <u>_</u> | Ţ | ğ     | Т | š     | š     | ă     | 췽     | 첮     | ğ     | _ | ă                                      | 1       | 吳          | ă      | 1 | ğ     |   | S       | ă      | 1 | ă      | Ţ  | ğ   | T | ğ      | 糹      | š        | ă      | ŏ     | ŏ      |
|------------------------|------------------------------------|-----------------------|----------|----------|---|-------|---|-------|-------|-------|-------|-------|-------|---|--|---------|------------|--------|---|-------|---|---------|--------|---|--------|----|-----|---|--------|--------|----------|--------|-------|--------|
| 915                    | L                                  | - 4                   | ĕ        | <u>ş</u> |   |       | _ | _     |       | _     |       |       | _     | _ |  | $\perp$ | Ž.         |        |   | _     | - | 2       |        | L |        | _[ | z   |   |        | _1     |          | ı,     |       |        |
| Pipe adequacy for 2015 |                                    | O1/Q2<br>(%)          | 47759%   | 36008%   |   | 3309% |   | 251%  | 1264% | 1066% | %69%  | 838%  | 843%  |   | 16286%                                 |         | Š          | 24520% |   | 3553% |   | ž       | 19693% |   | 15877% | 1  | క్  |   | 12826% | 9704%  | 4543%    | 14999% | 6839% | 18881% |
| e adequa               |                                    | 02=P.H.F<br>in L/s    | 0.2      | 0.2      |   | 0.7   |   | 7.3   | 7.3   | 7.3   | 7.3   | 7.3   | 7.3   |   | 0.5                                    |         | S          | 20     |   | 21    | 1 | 20      | 5.0    |   | 20     |    | 87. | Ì | 2.0    | 0.5    | 5.0      | 0.5    | 0.5   | 0.5    |
| å                      |                                    | Contributi<br>ng Popn | 21       | 21       |   | છ     |   | \$    | 269   | 692   | 269   | . 669 | 693   |   | 4,                                     |         | 47         | 47     |   | =     |   | 47      | 43     |   | 4      |    | 4   |   | 47     | 47     | 47       | 47     | 47    | 47     |
| 2                      |                                    | Judgement             | ŏ        | ă        |   | š     |   | š     | 첮     | OK    | OK    | ŏ     | ŏ     | · | ŏ                                      |         | ž          | Š      |   | 乡     |   | Š       | ğ      |   | ğ      |    | S.  |   | ğ      | ŏ      | OK       | Š      | ò     | Š      |
| Pipe adequacy for 2005 |                                    | QVQ2<br>(%)           | 25786%   | 39798%   |   | 3657% |   | 319%  | 1611% | 1358% | 1108% | 1068% | 1074% |   | 19627%                                 |         | %          | 29550% |   | 4282% |   | %<br>0% | 23732% |   | 19133% |    | 80  |   | 15457% | 11695% | \$475%   | 18076% | 8242% | 22754% |
| e adequa               |                                    | Q2-P.H.F<br>in L/s    | 0.2      | 0.2      |   | 9.0   |   | 5.7   | 5.2   | 5.7   | 5.7   | 5.7   | 5.7   |   | 0.4                                    |         | 0,4        | 0.4    |   | 1.2   |   | 0.4     | 0.4    |   | 9.4    |    | 6.1 |   | 0.4    | 0.4    | 0.4      | 0.4    | 0.4   | 0.4    |
| ř                      |                                    | Contributh<br>ng Popn | 19       | 61       |   | 22    |   | 547   | 547   | 547   | 547   | 547   | 547   |   | 39                                     |         | 39         | 95.    |   | 117   |   | 36      | 39     |   | 33     |    | 286 |   | 36     | 39     | 36       | 39     | 6ε    | 36     |
| ļ                      |                                    | Sudyennes             | ş        | Š        |   | OK.   |   | OK    | ОK    | OK    | ğ     | š     | ă     |   | š                                      |         | S          | ŏ      |   | ğ     |   | Š       | OK     |   | ă      |    | ž   |   | OK     | ğ      | ŏ        | ş      | ŏ     | ğ      |
| Pine adronace for 1995 | 7 101                              | Q1/Q2<br>(%)          | 62684%   | 47260%   |   | 4343% |   | \$02% | 2532% | 2135% | 1741% | %6191 | 28891 |   | 23196%                                 |         | <b>%</b> 0 | 34922% |   | 5061% |   | 80      | 28047% |   | 22612% |    | %0  |   | %£9781 | 13821% | 6471%    | 21362% | 9740% | 26891% |
| and de la              | NO CE                              | QZ=P,H,F<br>In L/s    | 0.2      | 0.2      |   | 0.5   |   | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   | 3.6   |   | 0.3                                    |         | 0.3        | 0.3    |   | 1.0   |   | 0.3     | 0.3    |   | 0.3    |    | 4.0 |   | 0.3    | 0.3    | 0.3      | 6.3    | 0.3   | 0.3    |
| ă                      | Ē                                  | Concribud             | 9        | 16       |   | 48    |   | 348   | 348   | 348   | £     | 348   | 348   |   | æ                                      | j       | æ          | g      |   | 83    |   | 8       | 33     |   | 33     |    | 381 |   | 33     | 33     | 33       | 33     | 33    | 33     |
| A Post                 | À Dec                              | OleCopa<br>cky (Ch)   | Š        | 8.87     |   | 21.7  |   | 18.2  | 91.8  | 77.4  | 63.1  | 609   | 61.2  |   | 7.67                                   |         | 00         | 120.0  |   | 52.2  |   | 0.0     | 96.4   |   | 17.7   |    | 0.0 |   | 62.8   | 47.5   | 22.2     | 73.4   | 33.5  | 92.4   |
|                        | Existing Pipe Details and Capacity | Dia in mm             | 82       | 150      |   | 150   |   | 82    | 55    | 150   | 150   | 150   | 85    |   | 87                                     |         | 55.        | 85     |   | 35    |   | 150     | 150    |   | 150    |    | 150 |   | 55     | 150    | 150      | 82     | 150   | 150    |
| 2                      | No De                              | Cradient (0/00)       | 470.6    | 267.5    |   | 20.3  |   | 14.3  | 363.3 | 258.2 | 171.8 | 159.8 | 5191  | İ | 274.1                                  |         | 8          | 621.3  |   | 117.4 |   | 000     | 8.005  |   | 260.5  |    | 0.0 |   | 170.0  | 97.3   | 21.3     | 232.5  | 48.3  | 368.4  |
| Paga                   | Existing                           | Leagth in             | ×        | 4        |   | 8     |   | ۲     | ::    | 823   | 78    | \$    | ŝ     |   | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |         | 8          | 13     |   | 35    |   | 15      | 13     |   | 50     |    | 62  |   | S      | 8      | S        | 18     | g     | 38     |
|                        | <u> </u>                           | 33                    | 51.45    | 48.43    |   | 47.78 |   | 2.5   | 40.00 | 32.76 | 27.93 | 20.70 | 14.20 |   | 9.32                                   |         |            | 9.32   |   | 5.21  |   |         | 5.21   |   |        |    |     |   | 47.15  | 40.75  | 40.10    | 36.36  | 34.8  | 20.50  |
| }                      | MH                                 | ដ                     | 67.45    | 49.50    |   | 48.39 |   | 47.74 | 47.63 | 30.00 | 32.74 | 27.89 | 20 66 |   |  |         |            |        |   | 9.32  |   |         |        |   | 5.21   |    |     |   | \$3.80 | 46.20  | 40.74    | 40.08  | 36.35 | 34.50  |
| rered                  | Ç.                                 | No MH                 | ×        | 8        | † | 47    |   | 3     | 45    | 4     | 43    | 42    |       |   | <b>\</b>                               |         | •          | - S    |   | -     |   | 22      | 7-     |   | 9      |    | S.  |   | 1.2    | 5      | SE<br>SE | 8%     | 33    | 36     |
| Area Covered           | Sewer Line                         | Ne wa                 | Ş        | \$ 8     |   | 23    | T | 47    | 84    | 1,4   | 4     | 4.4   | 54    |   | =                                      |         | 9          | 0      |   | 20    |   | 13      | 21     |   | 7      |    | ٥   |   | IS     | 14     | 9        | 89     | 38    | 37     |

| _                      |                                    |  |        |        |   | <del></del> |        |       |       |       |       |   |       |         |               |      |      | <del></del> . |          |       |              |       |       |                  |       |              |       |   |       |    |       |                |       |
|------------------------|------------------------------------|--|--------|--------|---|-------------|--------|-------|-------|-------|-------|---|-------|---------|---------------|------|------|---------------|----------|-------|--------------|-------|-------|------------------|-------|--------------|-------|---|-------|----|-------|----------------|-------|
| ۲                      |                                    | Judgement                              | ğ      | o<br>X |   | ğ           | οχ     | ŏ     | Ö     | ŏ     | ŏ     |   | ΟĶ    | ŏ       |               | Š    | ž    |               |          | New   |              | New   | New   |                  | Š.    |              | New   |   | New   |    | New . |                | New   |
| or for 20              | 10. 47                             | Q1/05<br>(%)                           | 31235% | 14837% |   | 18760%      | 18844% | 5909% | 2312% | 1845% | 3527% |   | 954%  | 830%    |               | 9%   | 0%   |               |          | 337%  |              | 101%  | 166%  |                  | 97%   |              | 101%  | ; | 1193% |    | %66   |                | %66   |
| Dine adequate for 2015 | anc a                              | 02-P.H.F<br>in L/s                     | 0.5    | 0.5    |   | 0.3         | 0.3    | 0.8   | 0.8   | 0.8   | 0.8   |   | 1.8   | 1.8     |               | 10.1 | 10.1 |               |          | 28.6  |              | 28.6  | 28.6  |                  | 29.4  |              | 52.3  |   | 2.9   |    | 57.7  |                | 57.7  |
| ă                      | =                                  | Contributi<br>ng Popn                  | 47     | 47     |   | 33          | 33     | 80    | . 08  | 80    | 80    |   | 174   | 174     |               | 596  | 596  |               |          | 2750  |              | 2750  | 2750  |                  | 2825  |              | 5575  |   | 283   |    | 6154  |                | 6154  |
| ٧                      | 3                                  | Julgement                              | . OK   | οκ     |   | ΟX          | OK     | ΟK    | χo    | Š     | οK    |   | ОĶ    | OK      |               | NG   | NC   |               |          | ÖK    |              | οĸ    | ŏ     |                  | ŏ     |              | ğ     |   | ğ     |    | OK    | :              | ğ     |
| 000                    | CY 101 20                          | Q1/Q2<br>(%)                           | 37642% | 17881% |   | 18760%      | 18844% | 6566% | 2569% | 2050% | 3919% |   | 1107% | %696    |               | %0   | %0   |               |          | 391%  |              | 118%  | 193%  |                  | 112%  |              | 106%  |   | 1384% |    | 115%  |                | 115%  |
| 1                      | ripe adequacy for 2005             | 02=P.H.F<br>in L/s                     | 0.4    | 0.4    |   | 0.3         | 0.3    | 0.8   | 8.0   | 8.0   | 8.0   |   | 1.6   | 1.6     |               | 8.1  | 8.1  |               |          | 24.7  |              | 24.7  | 24.7  |                  | 25.3  |              | 50.0  |   | 2.5   | ., | 49.8  | :              | 8.64  |
| Ė                      | 2                                  | Contributi Q2=P.H.F.<br>ag Popn in L/1 | 39     | 39     |   | 33          | 33     | 72    | 72    | 72    | 72    |   | 150   | 150     |               | 277  | 277  |               |          | 2370  |              | 2370  | 2370  |                  | 2433  |              | 4803  |   | 244   |    | 5316  | -              | 5316  |
|                        |                                    | Jadkement                              | š      | ğ      |   | ĕ           | ĕ      | ğ     | ŏ     | ş     | š     |   | š     | ŏ       |               | Š    | Š    |               |          | OK :  |              | ğ     | ĕ     |                  | ŏ     |              | ă     |   | χ̈́   |    | OK    |                | š     |
|                        | Proc adequacy for 1975             | 20/05                                  | 44486% | 21132% |   | 18760%      | 18844% | 7162% | 2802% | 2236% | 4276% |   | 1258% | 1094%   |               | 8    | 8    |               |          | 507%  |              | 153%  | 250%  |                  | 150%  | <del>-</del> | 139%  |   | 1845% | -  | 135%  | ***            | 135%  |
|                        | sadedus.                           | ZeP.H.F<br>n C.                        | 0.3    | 0.3    |   | 63          | 0.3    | 0.7   | 0.7   | 0.7   | 0.7   |   | 1.4   | 7.      |               | 5.7  | 5.7  | -             |          | 19.0  |              | 19.0  | 19.0  |                  | 0.61  |              | 38.1  |   | 1.9   |    | 42.4  |                | 42.4  |
| 3                      | 2                                  | Contributi Q2=P.H.F<br>ng Popn in L/s  | 33     | 33     |   | 33          | æ      | \$    | 99    | 8     | 8     | _ | 132   | 132     |               | \$46 | 546  | <br>          |          | 1827  |              | 1827  | 1827  |                  | 1827  |              | 3654  |   | 183   |    | 4072  |                | 4072  |
|                        | À C                                | Q1=Capa<br>clty (L/s)                  | 152.9  | 72.6   |   | 5.43        | 8.8    | 49.2  | 19.3  | 15.4  | 29.4  |   | 17.3  | 15.0    |               | 0.0  | 80   |               |          | 9.96  |              | 29.0  | 47.6  |                  | 28.5  |              | 53.0  |   | 35.2  |    | 57.2  |                | 57.2  |
|                        | Existing Pipe Details and Capacity | Dia in mm                              | 150    | 150    |   | 150         | 150    | 85    | 150   | 55.   | 150   |   | 82    | 8.      | -             | 150  | 350  |               |          | 200   |              | 150   | 200   |                  | 150   |              | 300   |   | . 200 |    | క్ల   | :              | 300   |
| í                      | No. Det                            | Cradlent 12 (0/06)                     | 1008.2 | 227.5  |   | 179.3       | 180.9  | 194.5 | 16.0  | 10.2  | 37.3  |   | 12.9  | 8.6     |               | 0.0  | 0.0  |               | <b> </b> | 86.7  |              | 36.4  | 21.1  |                  | 35.0  |              | 3.0   | - | 11.5  |    | 3.5   |                | 3.5   |
| Paga                   | Existing                           | Length in<br>m                         | 17     | ∞      |   | 58          | 4      | =     | 8     | 23    | 51    |   | 8     | 8       |               | 8    | 88   |               |          | 150   | -            | 220   | 160   |                  | 089   |              | 800   |   | 400   | :  | 350   |                | 250   |
|                        | 1                                  | DS CE                                  | 13.35  | 11.52  |   | 8.4         | 8.9    | 14.84 | 14.02 | 13.46 | 11.52 | - | 10.50 | 9.21    | -             |      |      |               |          | 5.8   |              | 15.00 | -1.00 |                  | 00.1- |              | -3.40 |   | 0.20  |    | 4.63  |                | -5.51 |
|                        | MH IL                              | H<br>H                                 | 30.49  | 13.34  |   | 34,40       | —      | 15.99 | 14.82 | 8.4   | 13.42 |   | 11.48 | 2<br>2  |               |      |      |               |          | 15.00 |              | 23.00 | 15.00 | <br>             | 25.00 |              | -1.00 | ; | 4.80  |    | 3.40  | - <del>-</del> | 4.63  |
| rered                  | Line                               | No. MH                                 | 35     | 88     |   | 33          | †      | t     | 30    | ន     | 238   |   | 23    | $t^{-}$ |               | 4    | 82   |               | Baruni   | P.    | Tatana 1-P/S | ş     | A3    | <br>Tatana 2-P/S | A3    |              | B3    |   | B3    |    | BS    |                | ū     |
| Area Covered           | Sewer Line                         | US MH                                  | 36     | 35     | - | 34          | 33     | 83    | 31    | 8     | 53    |   | 83    | 27      | <del> -</del> | 2    | 4    |               |          |       | Tat          | 82    | A2    | Tat              | 82    |              | A3    |   | B4    |    | 83    | -              | BS    |

|                        |                                   |                                       |   |         |       |       | ,        |          |          |       |       |       |        | r      | <br>  |    |       |       | · | Т     | <br>  |       | _ t   |   | r     |     | -1                | -      |        |       | <u>;</u> | _ |
|------------------------|-----------------------------------|---------------------------------------|---|---------|-------|-------|----------|----------|----------|-------|-------|-------|--------|--------|-------|----|-------|-------|---|-------|-------|-------|-------|---|-------|-----|-------------------|--------|--------|-------|----------|---|
| \$                     |                                   | Judgement                             | أ |         | ĕ     | ă     | ă        | ă        | ŏ        | ă     | ă     | ă     |        | ĕ      | ă     | Í. |       | š     |   | š     | ŏ     | ŏ     | ĕ     |   | ĕ     | - 1 | - 1               | ă      | š      |       | ă        |   |
| y for 201              |                                   | Q1/Q2<br>(%)                          |   |         | 6220% | 5807% | 8686%    | 5350%    | 5516%    | 4812% | 3215% | 4110% |        | 10089% | 2230% |    | 4831% | 7174% |   | 1250% | 8579% | 7342% | 4851% |   | 1200% |     | 19447%            | 22919% | 11292% | 4993% | 10854%   |   |
| Pipe adequacy for 2015 |                                   | %-P.H.F<br>in L's                     |   |         | 4.0   | 4.0   | 0.4      | 4.0      | 4.0      | 9.0   | 0.4   | \$    | $\neg$ | 0      | 1.2   |    | 4.0   | 70    |   | 200   | 4.0   | 4.0   | 4.0   | Ī | 2.7   |     | 0.4               | 0.4    | 0.4    | 0.4   | 9.0      |   |
| ğ                      | Ì                                 | Contribute Q2-P.H.F<br>ng Popn in L's |   |         | 40    | 94    | 40       | <b>6</b> | 4        | \$    | \$    | \$    |        | 37     | 114   |    | 37    | 3.    |   | 188   | 37    | 37    | 37    |   | 292   |     | 33                | 37     | 37     | 37    | 37       |   |
| 8                      |                                   | Judgement                             |   |         | ŏ     | ×     | OK       | χ        | ×        | ×     | ŏ     | ă     |        | ğ      | ĕ     |    | ğ     | š     |   | ğ     | ОК    | ŏ     | ğ     |   | š     |     | ĕ                 | ğ      | š      | ğ     | ğ        |   |
| y for 200              |                                   | Q1/Q2<br>(%)                          |   |         | 6220% | 5807% | 8686%    | 5350%    | 8516%    | 4812% | 3215% | 4110% |        | 10089% | 2230% |    | 4831% | 7174% |   | 1250% | 8579% | 7342% | 4851% |   | 1200% |     | 19447%            | 22919% | 11292% | 4993% | 10854%   |   |
| Pipe adequacy for 2005 |                                   | 02=P.H.F<br>in L/s                    |   |         | 9.0   | 4.0   | 4.0      | 4.0      | 0.4      | 0.4   | 0.4   | 4.0   |        | 4.0    | 7.    |    | 0.4   | 0.4   |   | 2.0   | 0.4   | 0.4   | 0.4   |   | 2.7   |     | 0.4               | 0.4    | 0.4    | 0.4   | 9.4      |   |
| ğ                      |                                   | Contribution R. Popu                  |   |         | 9     | \$    | 3        | 3        | 3        | 3     | 40    | 40    |        | 37     | 114   |    | 37    | 37    |   | 188   | 37    | 37    | 37    |   | 262   |     | 37                | 37     | 23     | 37    | 37       |   |
| ,                      | <u></u>                           | Judgament                             |   |         | ă     | ğ     | ğ        | š        | ğ        | ğ     | 첮     | οĶ    |        | ğ      | Ж     |    | OK    | ΟĶ    |   | ŏ     | ð     | ă     | χ     |   | ΟĶ    |     | ok<br>Ok          | OK     | š      | οK    | OK       |   |
| Pine odennacy for 1995 | 2                                 | Q1/Q2<br>(%)                          |   |         | 6220% | 5807% | 8686%    | 52.50%   | 5516%    | 4812% | 3215% | 4110% |        | 10089% | 2230% |    | 4831% | 7174% |   | 1250% | 8579% | 7342% | 4851% | , | 1200% |     | % <u>4</u> \$4561 | 22919% | 11292% | 4993% | 10854%   |   |
| Self-maps a            |                                   | 02=P.H.F<br>in I./s                   |   |         | 0.4   | 4.0   | 4.0      | 4.0      | 4.0      | 4.0   | 4:0   | 0.4   |        | 0.4    | 1.2   |    | 0.4   | 0.4   |   | 2.0   | 0,4   | 4.0   | 0.4   |   | 2.7   |     | 0.4               | 0.4    | 0.4    | 0.4   | 0.4      |   |
| , E                    |                                   | Concributi Q2=P.H.F<br>ng Popn in L/s | - |         | 3     | 육     | 8        | 읔        | 읔        | 8     | 4     | 3     |        | 37     | 114   |    | 37    | 37    |   | 188   | 37    | 37    | 37    |   | 262   |     | 37                | 37     | 37     | 37    | 37       |   |
| Tailor.                | â                                 | OleCaps<br>dry (L/s)                  |   |         | 25.9  | 24.2  | 36.2     | 22.3     | 23.0     | 20.1  | 13.4  | 17.1  |        | 38.9   | 26.5  |    | 18.6  | 27.7  |   | 24.5  | 33.1  | 28.3  | 18.7  |   | 32.8  |     | 75.0              | 88.3   | 43.5   | 19.2  | 41.8     |   |
|                        | Existing Pipe Detain and Capacity | Dia in mm                             |   |         | 150   | 85    | 8        | 55       | ন্ত      | 8     | 150   | 8     |        | 150    | 150   |    | 150   | 55.   |   | 150   | 150   | 150   | 150   |   | 150   |     | 150               | 150    | 150    | 150   | 150      |   |
|                        |                                   | Gradient (0/00)                       |   |         | 29.0  | 25.2  | \$6.5    | 21.4     | 22.8     | 17.3  | 7.7   | 12.6  |        | 65.2   | 30.2  |    | 14.9  | 33.0  |   | 25.9  | 47.1  | 34.5  | 15.1  |   | 46.3  |     | 242.2             | 336.4  | 81.7   | 16.0  | 75.5     |   |
| Paga                   | Existing                          | Length in                             |   |         | 848   | 54    |          | 9        | <u>~</u> | 8     | 83    | 87    |        | 52     | 128   |    | 95    | 12    |   | Ξ     | 5     | æ     | 69    |   | 67    |     | 18                | 1.7    | 18     | 3     | 8        |   |
|                        |                                   | ช %ด                                  |   |         | 14.83 | 7, 5, | 2 2      | 8        | 4        | 880   | 8.48  | 7.38  |        | 7.38   | 4.93  |    | 5.82  | 4.93  |   | 50%   | 4.93  | 3.10  | 2.08  |   | 1.0   |     | 8.62              | 3.91   | 2.44   | 1,45  | 37       |   |
|                        | MHIL                              | TI SO                                 |   |         | 16.20 | 14.8  | 1 1 2    | 10.87    | 8        | 140   | 888   | 84.8  |        | 10.77  | 7.38  |    | 7.24  | 5.82  |   | 66.4  | 16.9  | 1.93  | 3.10  |   | 2.06  |     | 12.98             | 8.62   | 391    | 4.2   | 1.45     |   |
| ered                   | Line                              | DS MH<br>No                           |   | Idubada | 77    | -     | ,        | ; "      |          | ~     | ء ا   | -     |        |        | 13    |    | 22    | 5     |   | =     | 0     | 2     | =     |   | 15    |     | 20                | 61     | 18     | 16    | 15       |   |
| Area Covered           | Sewer Line                        | US MH<br>No                           |   |         | y.    | 3 5   | <u>-</u> | . ,      | 1 "      | , 4   | ~     | ٥     |        | 2      | 7     |    | 23    | 13    |   | 13    | ~     | 0     | 02    |   | Ξ     |     | 21                | 20     | 61     | 18    | 2        |   |

| \frac{1}{2}                                |                        | Judgement                             | ğ     |              | New   | New   |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | New   |   |
|--|------------------------|---------------------------------------|-------|--------------|-------|-------|----------|---------|---------|-----------|----------|----------|----------|---------|---------|----------|----------|----------|--------|----------|---|---------|---------|----------|----------|------------------|-------|---|
| Pipe adecuacy for 2015                     |                        | \$7.0z<br>(%)                         | 363%  |              | 101%  |       |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | 103%  |   |
| De adeou                                   |                        | 102aP.H.F<br>in L/s                   | 3.1   |              | 60.5  | \$0.5 | 1.1      | 1.1     | 1.1     | 2.7       | 2.7      | 2.7      | 2.7      | 2.7     | 2.7     | 2.7      | 1.0      | 1.0      | 1.0    | 0.5      |   | 1.6     | 1.6     | 4.2      | 4.2      |                  | 77.5  |   |
|  |                        | Contributing Popu                     | 82    |              | 6453  | 6453  | 108      | 108     | 801     | 258       | 258      | 258      | 258      | 258     | 258     | 258      | . 001    | 8        | 100    | 49       |   | 149     | 149     | 407      | 407      |                  | 8264  |   |
| S  |                        | Judgement                             | š     |              | š     |       |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | οĸ    |   |
| Pine advansey for 2005                     | 70.4                   | 91/92                                 | 393%  |              | 116%  |       |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | 115%  |   |
| apope au                                   | אל שמנה                | Contributi 02-P.H.F<br>ng Popn la 1/3 | 3.1   |              | 52.6  | 52.6  | 8.0      | 8.0     | 8.0     | 2.4       | 2.4      | 2.4      | 2.4      | 2.4     | 2.4     | 2.4      | 1.0      | 1.0      | 1.0    | 0.5      |   | 1.6     | 1,6     | 3.9      | 3.9      |                  | 69.3  |   |
| 2  |                        |                                       | 299   |              | 5615  | 5615  | 92       | 2/2     | 9/      | 226       | 226      | 226      | 226      | 226     | 226     | 226      | 100      | 100      | 100    | 49       |   | 149     | 149     | 375      | 375      |                  | 7391  |   |
| ě  | S                      | Judgement                             | οĸ    |              | ŏ     |       |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | OK    |   |
| 00 TOP 10                                  | ripe saequacy tor 1975 | 01/Q2<br>(%)                          | 363%  |              | 134%  |       |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | 140%  | ĺ |
| a de la de                                 | אמנל וו                | Q2=P.H.F<br>in L/s                    | 3.1   |              | 45.5  | 45.5  | 0.4      | 9.4     | 0.4     | 1.9       | 6'1      | 6'1      | 1,9      | 1.9     | 1.9     | 1.9      | 1.0      | 1.0      | 1.0    | 0.5      |   | 1.6     | 1.6     | 3.5      | 3.5      |                  | 57.2  |   |
| É  | =                      | Contributi<br>ng Popn                 | 506   |              | 4371  | 4371  | 36       | 36      | 36      | 186       | 186      | 186      | 186      | 186     | 186     | 186      | 100      | 100      | 100    | \$       |   | 149     | 149     | 335      | 335      |                  | .2609 |   |
| Ajvena                                     | a based                | OlaCapa<br>city (L/s)                 | 12.3  |              | 61.2  |       | Existing | Example | Exsting | Executing | Existing | Existeng | Existing | Sunding | Eusting | Existing | Existing | Existing | Ething | Existing | - | Extense | Extinue | Existing | Existing |                  | 664   | Ī |
| Aga<br>Existing Pine Details and Consolity | OHIE SING              | Die in mm                             | 150   |              | 00€   | 38    | 150      | 150     | 150     | 150       | 150      | 150      | 150      | 150     | 150     | 150      | 150      | 150      | 150    | 150      |   | 150     | 150     | 150      | 150      |                  | 350   |   |
| P. P. P.                                   | and crizi              | Gradient<br>(9/08)                    | 6.5   |              | 4,0   |       |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | 3.0   |   |
| Paga                                       | E.Casul                | Length in                             | 41    |              | 9     | 450   |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          |                  | 250   |   |
| Zi zi                                      | ונ                     | 88                                    | -1,15 |              | -5.91 | 1.20  |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   | ,       |         |          |          |                  | 0.45  |   |
| ٤  | , N                    | าน รถ                                 | -1.04 | S.           | -5.51 | -5.91 |          |         |         |           |          |          |          |         |         |          |          |          |        |          |   |         |         |          |          | S/d              | 1.20  |   |
| vered                                      | Sewer Line             | DS MH                                 | 15    | Tatana 3-P/S | જ     | ខ     | 61       | 18      | 17      | 91        | 15       | 14       | 13       | 12      | ī       | 4        | ٥        | 8        | 9      | 9        |   | . 2     | 4       | 3        | ខ        | Hanuabada 1- P/S | . PS  |   |
| Area Covered                               | X                      | US MH                                 | 15    | Ĥ            | ៊     | 82    | 20       | 19      | 81      | 1.1       | 16       | 15       | 14       | 13      | 77      | ==       | 10       | 6        | œ.     | 7        | · | 9       | v       | 4        | 3        | Hann             | ខ     | - |

| Area Covered | vered            |       |       | Paga      |   | 1                                  | 7                      | Š                     | augapa a | Dice adequate for 1995 | ×         | Å                                     | Pipe adequacy for 2005 | cv for 200  | 8         | ļž.                   | e adequa           | Pipe adequacy for 2015 | \sqr      |
|--------------|------------------|-------|-------|-----------|---|------------------------------------|------------------------|-----------------------|----------|------------------------|-----------|---------------------------------------|------------------------|-------------|-----------|-----------------------|--------------------|------------------------|-----------|
| Sewer Line   | Line             | ž     | MHIL  | Existen   | 1 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 C 3 | Existing type Letters and Cultural | ) I                    |                       | - Warden |                        |           |                                       |                        |             |           |                       |                    |                        |           |
| US MH        | DS MH            | n 33  | 28    | Length in | Gradient<br>(0/00)                      | Dis in mm                          | \$2.00 ps<br>cky (C/s) | Centributs<br>ng Popn | Q2eP.H.F | 01/02<br>(%)           | Judgement | Contributi (Z=P.H.F<br>ng Popa in Lis | 02=P.H.F<br>in L/s     | QVQ2<br>(%) | Judgement | Contributi<br>ng Popu | 02=P.H.F<br>in L/s | 01/07<br>(%)           | Judgement |
| 1            | 5                | ć,    | 59.0- | 8         | 3.0                                     | 8                                  | 1                      | 82                    | ŝ        | 171%                   | ğ         | 1668                                  | 78.7                   | 145%        | ОЖ        | 9264                  | 6'98               | 131%                   | Š.        |
| 3 2          | 5 2              | 0.00  | \$ 6  | 150       | 3.0                                     | 200                                | 18.0                   | 445                   | 4.6      | 388%                   | ŏ         | 457                                   | 4.8                    | 3775        | OK        | 463                   | 8,4                | 372%                   | New       |
| 3   8        | 5 3              | 3 6   | \$ 3  | S<br>S    | 3.0                                     | 85                                 | 156.2                  | 8042                  | 75.4     | 207%                   | ă         | 9348                                  | 87.6                   | 178%        | OK        | 10227                 | 85.2               | 183%                   | New       |
| ;            | 94 C             | 3     |       |           |   |                                    |                        |                       |          |                        |           |                                       |                        |             |           |                       |                    |                        |           |
| L            | Japaga 2         |       | [3    | 35,       | ,                                       | 9                                  | 1562                   | 10743                 | 80.5     | 1740%                  | ž         | 12525                                 | 104.4                  | 150%        | ğ         | 13696                 | 114.1              | 137%                   | New       |
| 3            | 2                | 3     | 8     | OC.       | 3                                       | 2                                  | *87                    |                       |          |                        |           |                                       |                        |             |           |                       |                    |                        |           |
| 7            | ٤                | 5     | 3.53  | 130       | 65.4                                    | 200                                | 83.9                   | 73                    | 0.8      | 11029%                 | ğ         | 73                                    | 8:0                    | 11029%      | ă         | 5                     | 0.8                | 11029%                 | N.        |
| 3 8          | 3 8              | 3 5   | 5 5   | <u>\$</u> | 3 5                                     | 200                                | 25.9                   | 22                    | 1        | 3410%                  | 1         | 52                                    | 9.0                    | 3410%       | ΟĶ        | 73                    | 8.0                | 3410%                  | New       |
| <u>ئ</u> ز   | 3 5              | 5.55  | 08.01 | 230       | 7.4                                     | 202                                | 28.2                   | 219                   | 1        | 1236%                  | ğ         | 219                                   | 2.3                    | 1236%       | ğ         | 219                   | 2.3                | 1236%                  | Š         |
| 3 8          |                  | 9     | 98 91 | ğ         | 27.2                                    | 88                                 | <u>%</u>               | E                     | 7:       | 6742%                  | ğ         | 77                                    | 8.0                    | 6742%       | οχ        | 77                    | 8.0                | 6742%                  | New       |
| )<br>S       | CI3              | 10.80 | 4.50  | 571       | 37.1                                    | 82                                 | 63.1                   | 363                   | 3.8      | 1670%                  | ğ         | 363                                   | 3.8                    | 1670%       | οχ        | 363                   | 3.8                | 1670%                  | Š.        |
| ē            | 7<br>0           | 18.50 | 4,50  | 360       | 53.8                                    | 200                                | 76.1                   | 73                    | 8.0      | 10009%                 | ЖO        | 73                                    | 8.0                    | 10009%      | ğ         | 73                    | 0.8                | 10009%                 | New.      |
| EE           | Hanuabada 2- P/S | P/S   |       |           |   |                                    |                        |                       |          |                        |           |                                       |                        |             |           |                       |                    |                        |           |
| CIS          | X                | 4.50  | 0.30  | 80        | 52.5                                    | 200                                | 75.2                   | 736                   | 7.7      | <b>%</b> 086           | OK        | 736                                   | 7.7                    | 2086        | ğ         | 789                   | 8.2                | 914%                   | See       |
|              |                  |       |       |           |   |                                    |                        |                       |          |                        |           |                                       |                        |             |           |                       |                    |                        |           |
|              | Treasury         |       |       |           |   |                                    |                        |                       |          |                        |           |                                       |                        |             | - 1       |                       |                    |                        |           |
| 6            | S                | 17.15 | 11.09 | 52        | 116.5                                   | 150                                | 52.0                   | 141                   | 1.5      | 3540%                  | Š         | 178                                   | 2                      | 2804%       | . 1       | 193                   | 5.0                | 2586%                  | Š         |
| \ <u>``</u>  | 4                | 11.09 | 10.11 | 7.5       | =                                       | 150                                | 5.0                    | 141                   | 1.5      | 339%                   | Š         | 178                                   | 6.1                    | 268%        | ð         | 8                     | 2                  | 247%                   | ğ         |
| 4            | 6                | 10.11 | 7.47  | 38        | 98.3                                    | 150                                | 47.8                   | 141                   | 1.5      | 3252%                  | OK        | 178                                   | 1.9                    | 2576%       | ğ         | 133                   | 2.0                | 2375%                  | ğ         |
| -            | 2                | 7.47  | 6.77  | 38        | 19.4                                    | 8.                                 | 21.2                   | 141                   | 1.5      | 1446%                  | XO.       | 178                                   | 1.9                    | 1145%       | ă         | <u>z</u>              | 2                  | 1056%                  | ğ         |
| 77           | _                | 6.77  | 6.25  | 22        | 23.6                                    | 150                                | 23.4                   | 141                   | 1.5      | 1594%                  | жo -      | 178                                   | 1.9                    | 1263%       | ğ         | 193                   | 5.0                | 1165%                  | š         |
|              | CI4              | 6.25  | 8.    | 2         | 25.0                                    | 150                                | 24.1                   | 141                   | 1.5      | 1639%                  | ж         | 178                                   | 6.1                    | 1299%       | ğ         | 193                   | 5.0                | 1198%                  | ĕ         |
|              |                  |       | ļ     |           |   |                                    |                        |                       |          |                        |           |                                       |                        |             |           |                       |                    |                        |           |
| 25           | C141             | 90.9  | 5.45  | 8         | 6.1                                     | 200                                | 25.5                   | 141                   | 1.5      | 1746%                  | New       | 178                                   | 61                     | 1383%       | New       | 193                   | 5.0                | 1275%                  | New       |
|              |                  |       |       |           |   |                                    |                        |                       |          |                        |           |                                       |                        |             |           |                       |                    |                        | :         |
| C142         | C141             | 18.90 | 5.45  | 180       | 74.7                                    | 200                                | 89.7                   | 550                   | 5.7      | 1565%                  | New       | 850                                   | 6.8                    | 1013%       | New       | 1050                  | 6.01               | 820%                   | »         |
|              |                  |       |       |           |   | ]                                  |                        |                       |          | 8,00                   | ]         | ٤                                     | ,                      | 6690        | Ž.        | 1243                  | 120                | 265%                   | New       |
| 25           | 3                | 5.45  | 9     | 25        | 33.7                                    | 35                                 | 2.00                   | 160                   | 7.7      | 830%                   | NCM       | 1070                                  | <u>جَ</u>              | 20700       | 5         |                       |                    |                        |           |
|              |                  |       |       |           |   |                                    |                        |                       |          |                        |           |                                       |                        | 3           | Į         | Š                     | :                  | 17500                  | ž         |
| 308          | 307A             | 20.04 | 19.51 | 45        | 11.8                                    | 150                                | 16.5                   | 126                   | 1.3      | 1259%                  |           | 126                                   | 1.3                    | 1259%       | š         | 8                     | <u>.</u>           | 07.6071                | 5 8       |
| 307A         | 306              | 19.51 | 18.33 | 67        | 24.1                                    | 150                                | 23.6                   | 126                   | 1.3      | 1801%                  | ğ         | 126                                   | 1.3                    | 1801%       | š         | 126                   | 1:3                | 1801%                  | ź         |
| 306          | 305              | 18.33 | 17.79 | 33        | 16.4                                    | 150                                | 19.5                   | 126                   | 1.3      | 1484%                  | ĕ         | 126                                   | 1.3                    | 1484%       | ă         | 28                    | 13                 | 1484%                  | ă         |

| 80  | Judgement             | ÖK    | ŏ     | Š     | ŏ     | ğ        | ğ                                      | ğ     | ğ     | ğ     | ; | NCW.   | 1     | ¥.     |   |                  | ŠŠ   |              |       |      |     |     |   | #DIV/0;         | Š     | New   | Ů<br>Ž | Nes.  | ŏ       | New   |
|---|-----------------------|-------|-------|-------|-------|----------|--|-------|-------|-------|---|--------|-------|--------|---|------------------|------|--------------|-------|------|-----|-----|---|-----------------|-------|-------|--------|-------|---------|-------|
| Pipe adequacy for 2015                    | 20/10<br>(%)          | 3181% | 4134% | 2759% | 3874% | 1690%    | 4721%                                  | 4131% | 5720% | 1193% |   | 132%   | 2000  | × 050  |   |                  | 105% |              |       |      |     |     |   | #DIV/0! #DIV/0  | 13%   | 113%  | 13%    | 113%  | 2087%   | 112%  |
| e adequa                                  | 02eP.H.F              | 1.3   | 1.3   | 1.3   | 1.3   | 1.3      | 0.1                                    | 1.0   | 2     | 2.4   |   | 15.3   | 1.24  | 7.61   |   |                  | 31.0 |              | 145.5 | :    |     |     |   | 213.5           | 213.7 | - 1   | 213.7  | 213.7 | 213.7   | 213.7 |
| Pig                                       | Contribută<br>ng Popu | 126   | 126   | 126   | 126   | . 971    | 8                                      | 8     | 8     | 226   | 3 | 1469   | 76.51 | Offi   |   |                  | 2979 |              | 17464 | 8639 | 262 | 965 |   | 27330           | 27355 | 27355 | 27355  | 27355 | 27355   | 27355 |
| ×   | Jedgement             | ŏ     | ý     | ŏ     | ă     | ğ        | ğ                                      | ĕ     | 용     | ğ     |   | Šé     |       | NGW    |   |                  | ğ    |              |       |      | Ì   |     |   | #DIV/0!         | NG    | New   | S      | New   | ğ       | New   |
| cy for 20                                 | Q1/Q2<br>(%)          | 3181% | 4134% | 2759% | 3874% | 1690%    | 4721%                                  | 4131% | 5720% | 1193% |   | 178%   | 1904  | 04.651 |   |                  | 123% | :            |       |      |     |     |   | #DIV/0!         | 15%   | 122%  | 15%    | 122%  | 6454%   | 120%  |
| Pipe adequacy for 2005                    | 92.P.H.P<br>s/1.ni    | 1.3   | 1.3   | 1.3   | 1.3   | 1.3      | 1.0                                    | 1.0   | 9     | 2.4   |   | 13.1   |       | 13.4   |   |                  | 26.5 |              | 131.7 |      |     |     |   | 198.0           | 198.2 | 198.2 | 198.2  | 198.2 | 198.2   | 198.2 |
| , Z                                       | Contributi<br>ng Popn | 126   | 126   | 126   | 126   | 126      | 801                                    | 81    | 8     | 226   |   | 1254   | 100   | 1871   |   |                  | 2541 |              | 15802 | 8510 | 262 | 775 | : | 25349           | 25374 | 25374 | 25374  | 25374 | 25374   | 25374 |
| 25  | ) bud germanit        | ă     | ş     | ğ     | ğ     | ğ        | š                                      | ğ     | ŏ     | ĕ     |   | Ž<br>N | ,     | Š      | 1 |                  | ğ    |              |       |      |     |     | ÷ | #DIV/0!         | NG    | New   | NG     | New   | OK      | New   |
| Pipe adequacy for 1995                    | 01/02                 | 31818 | 41348 | 2759% | 3874% | 1690%    | 4721%                                  | 4131% | 5720% | 1193% |   | 243%   | 1     | %860I  |   |                  | 175% |              |       |      |     |     |   | #DIV/0! #DIV/0! | 17%   | 147%  | 17%    | 147%  | 7754%   | 145%  |
| c adequa                                  | 02-P.H.F              | 1.3   | 5.    | 1.3   | 1.3   | 13       | 1.0                                    | 1.0   | 1.0   | 2.4   |   | 9.6    | 1     | 0.6    |   |                  | 18.6 |              | 110.5 |      |     |     | : | 164.8           | 165.0 | 165.0 | 165.0  | 165.0 | 165.0.  | 165.0 |
| r.  | Contributi<br>ng Popa | 126   | 126   | 126   | 126   | 126      | 100                                    | 100   | 100   | 32    |   | 217    |       | 998    |   | _                | 1783 |              | 13262 | 5740 | 228 | 546 |   | 19776           | 19801 | 10861 | 19801  | 19801 | 19801   | 19801 |
| pacity                                    | 8.9                   | 41.8  | 543   | 36.2  | 80.8  | 222      | 49.2                                   | 43.0  | 59.6  | 28.1  |   | 23.2   |       | 8.1    |   |                  | 32.6 |              |       |      | 11  |     |   | #DIV/0:         | 28.8  | 242.1 | 28.8   | 241.9 | 12794.3 | 238.8 |
| oils and C                                | Ole in mm             | 150   | 150   | 150   | 150   | 55       | 82                                     | 150   | 150   | 350   |   | 82     |       | 8      |   |                  | 250  |              |       |      |     |     |   | 450             | 225   | Š     | 225    | Š     | 2225    | 200   |
| aga<br>Existing Pipe Details and Capacity | Gradient<br>(0/00)    | 75.2  | 126.9 | \$65  | 11.5  | 21.2     | 2<br>25<br>3                           | 79.8  | 153.0 | 34.0  |   | 5.0    |       | 91.3   |   |                  | 3.0  |              |       |      |     |     |   | #DIV/0          | 4.1   | 4.    | 4.1    | 4.1   | 0.4     | 4.0   |
| Paga<br>Existin                           | i da r                | Ş     | 3     | 13    | 7     | , s      | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ន     | 8     | 10    |   | ŝ      |       | ន្ត    |   |                  | 100  |              |       |      |     |     |   |                 | 73    | 73    | 78     | 78    | 8       | 55    |
|   | 77 SG                 | 13.28 | 8     | 5.76  | 5     | 0.74     | 16.33                                  | 11.30 | 0.74  | 0.40  |   | 0.10   |       | 0.10   |   |                  | 0.70 |              |       |      |     |     |   |                 | 10.70 | 10.70 | 10.38  | 10.38 | .10.16  | 10.16 |
| MH IL                                     | 1<br>3                | 17.70 | 3.78  | 7.06  | 3,5   | 1.97     | 17.79                                  | 16.33 | 11.30 | 0.74  |   | 0.40   |       | 18.35  |   | . P/S            | 0.40 | SV           |       |      |     |     |   |                 | 11.00 | 11.00 | 10.70  | 0.70  | 10.38   | 10.38 |
| vered                                     | DS МН                 | 305   | 3034  | 303   | £     | <u>5</u> | 310                                    | 309   | 301   | CI3   |   | C131   |       | C131   |   | Hanuabada 2- P/S | S.   | Konedobu P/S | 8     | 82   | 82  | 83  |   | 389             |       | Γ     | 387    |       | 386     | . :   |
| Area Covered<br>Sewer Line                | N SN                  | 308   | 3     | 303A  | ş     | 36       | 311                                    | 310   | 88    | 301   |   | Cl3    |       | C132   |   | Hanı             | C131 | χ.           | PSHam | Sion | 220 | 4   |   | 83              | 389   |       | 388    |       | 387     | -     |

|                         | Γ                                  | Ĭ   |       | 3     |        | 3        | Ų.    | 3     | 1            | آپ                                     | ان    | J     | , l                                    | ان    |   | ٦     | ≩       | 1        | T                     | ای         | ≱     |    | اير   | ٧      | ᆚ        | ×            |          | ان    | 3        | ပ္အ    | New    | 2     | New    |
|-------------------------|------------------------------------|---|-------|-------|--------|----------|-------|-------|--------------|--|-------|-------|--|-------|---|-------|---------|----------|-----------------------|------------|-------|----|-------|--------|----------|--------------|----------|-------|----------|--------|--------|-------|--------|
| 115                     | L                                  | Judgumen                                  | ž     | ž     | S<br>S | New      | ĕ     | N.    |              | Š                                      | ŏ     | ŏ     | ŏ                                      | ğ     |   | Ÿ.    | Š       | _        |                       | Z          | New   |    | - I   |        | - 1      | ŏ            | -        | -     | _        | -4     |        | 4     |        |
| cy for 26               |                                    | \$)<br>(%)                                | 13%   | 112%  | 13%    | 111%     | 121%  | 1020% |              | 20544%                                 | 6226% | 4692% | 4157%                                  | 4406% | : | 13%   | 85%     |          |                       | 30%        | 348%  |    | 7131% | 10738% | 16489%   | 8847%        |          | 37%   | 312%     | 88     | 419%   | 62%   | 524%   |
| Pipe adequacy for 2015  |                                    | 02-F.H.F<br>in L/s                        | 213.7 | 213.7 | 213.7  | 213.7    | 213.7 | 213.7 |              | 0.3                                    | 0.3   | 0.3   | 0.3                                    | 0.3   |   | 213.9 | 213.9   |          |                       | 251.3      | 251.3 |    | 0.3   | 0.3    | 63       | 0.3          |          | 251.8 | 251.8    | 251.8  | 251.8  | 251.8 | 251.8  |
| Į.                      |                                    | Contribution Populari                     | 27355 | 27355 | 27355  | 27355    | 27355 | 27355 | :            | 25                                     | જ     | 25.   | 25                                     | 25    |   | 27380 | 27380   |          |                       | 32160      | 32160 |    | 32    | 32     | 33       | 32           |          | 32224 | 32224    | 32224  | 32224  | 32224 | 32224  |
|                         | 1                                  | Judgement                                 | NG    | New   | Š      | Š        | OK    | New   |              | OK                                     | X     | OK    | ă                                      | ŏ     |   | Š     | NG<br>C |          |                       | Š          | Š     |    | Š     | X      | ğ        | ŏ            |          | S     | ğ        | Š      | ŏ      | ž     | OK.    |
| v for 200               |                                    | QUQ2 ,                                    | 14%   | 121%  | 14%    | 120%     | 131%  | 1099% |              | 20544%                                 | 6226% | 4692% | 4157%                                  | 4406% |   | 14%   | 65%     |          |                       | 33%        | 380%  |    | 7131% | 10738% | 16489%   | 8847%        |          | 41%   | 341%     | 54%    | 458%   | %89   | 573%   |
| Pine adequater for 2005 | 100                                | 92=P.H.F<br>in L's                        | 198.2 | 198.2 | 198.2  | <u> </u> | 198.2 | 198.2 |              | 0.3 2                                  | 0.3   | 0.3   | 03                                     | 0.3   |   | 198.4 | 198.4   |          |                       | 229.8      | 229.8 |    | 0.3   | 0.3    | 0.3      | 0.3          |          | 230.3 | 230.3    | 230.3  | 230.3  | 230.3 | 230.3  |
| 2 2                     | <b>\</b>                           | Contributi Q<br>ag Popn                   | 25374 | 25374 | 25374  | 25374    | 25374 | 25374 | -            | 25.                                    | S2    | 25    | ង                                      | n     |   | 25399 | 25399   |          |                       | 29417      | 29417 |    | 32    | 32     | 32       | 32           |          | 29481 | 29481    | 29481  | 29481  | 29481 | 29481  |
|                         | †                                  | Jadeconen                                 | S     | New   | -      | +        | ă     | New   |              | ă                                      | ă     | ă     | ă                                      | ă     |   | Š     | š       |          |                       | Š          | ğ     |    | ğ     | ğ      | ğ        | OK .         |          | Š     | ΟK       | S<br>N | Ŏ,     |       | OK     |
| 1006                    | Cycl Tot Jack adequacy Tor 1945    | - 01/05<br>(%)                            | 17%   | 145%  | 17%    | 24.9     | 157%  | 1321% |              | 20544%                                 | 6226% | 4692% | 4157%                                  | 4406% |   | 17%   | 110%    |          |                       | 43%        | 497%  |    | 7131% | 10738% | 16489%   | 8847%        |          | 53%   | 445%     | 71%    | 297%   | %68   | 747%   |
|                         | Sednac                             | 2.4.7.2.2.4.2.2.4.2.4.2.4.2.4.4.2.4.4.4.4 | 165.0 | 165.0 | ┞-     | 1 -      | ┿     | 165.0 | T            | 0.3                                    | 2     | 0.3   | 0.3                                    | 0.3   |   | 165.2 | 165.2   |          |                       | 1.92       | 176.1 |    | 63    | 0.3    | 0.3      | 0.3          |          | 176.6 | 176:6    | 176.6  | 176.6  | 176.6 | 176.6  |
|                         |                                    | Сопствый О.                               | 19801 | ╀     | -      | ╄        | ļ     | 19801 | ╄            | 25                                     | 23    | 23    | ž,                                     | 23    | - | 19826 | 19826   | _        |                       | 22542      | 22542 |    | 32    | 33     | 32       | 32           |          | 22606 | 22606    | 22606  | 22606- | 22606 | 22606  |
|                         | À                                  | OleCaps Co                                | 28.5  | ╁╌    | +      | ╅╴       | +     | 1     |              | 53.5                                   | 16.2  | 12.2  | 10.8                                   | 11.5  | - | 28.7  | 182.0   | -        |                       | 76.0       | 1.    |    | 23.8  | 35.8   | 55.0     | 29.5         |          | 93.4  | 785.4    | 125.4  | 1054.6 | 156.9 | 1319.8 |
|                         | a sad Cap                          | Ola in mm cit                             | 225   | ╁╌    | -      | ╁╴       | +-    | +     | <del> </del> | 55                                     | ╁     | 82    | ╁                                      | ╁     | T | 225   | 450     |          |                       | 8          | ┼~    |    | 150   | 55.    | 150      | 150          |          | 225   | 88       | 225    | 200    | 225   | 200    |
|                         | Existing Pipe Details and Capacity | Gradient Dia                              | 0.4   | 0.4   | 3.9    | 000      | 333.0 | 333.0 |              | 123.4                                  | 5.1.  | 4.9   | 2                                      | 5.7   | T | 1.4   | 1.4     | $\vdash$ |                       | 53.6       | 53.6  |    | 24.4  | 55.2   | 130.3    | 37.5         | -        | 43.3  | 43.3     | 78.0   | 78.0   | 122.2 | 122.2  |
| Paga                    | Existing 1                         | Length in G                               | 8     | 8     | 3 5    | :   =    | ╁     | +-    | +            | 4                                      | ╁╌    | 5     | \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | 37    | _ | 27    | 2       |          | -                     | 303        | 303   | -  | 55    | ដ      | 39       | 8            |          | 25    | 8        | 15     | 1.5    | જી    | 69     |
| ٦                       | 1                                  | <u>វ</u><br>ដ<br>ន                        | 9.20  | 0,0   | 9,90   | 3 9      | -0.33 | 0.33  | -            | 8                                      | 0.83  | 0.36  | 0.12                                   | -0.33 | - | 4     | 4       | 1        |                       | 15.81      | 15.81 | -  | 23.55 | 22.39  | 17:31    | 15.81        |          | 11.70 | 11.70    | 10.53  | 10.53  | 2.10  | 2.10   |
|                         | MHIL                               | a H so                                    | 91.01 | ╀     | 4-     | ┿        | + -   | ╁╌    | +            | 6.43                                   | ╁     | ╀     | +                                      | 1-    | ┿ | -0.33 | ┰       | 1-       | P/S                   | †_         | +     | +- | 24.89 | +      | -        | <del> </del> | ļ        | 15.81 | 15.81    | 11.70  | 11.70  | 10.53 | ⊢      |
| ed                      | je<br>L                            | DS MUH U                                  | 385   | +     | 384    | +        | ē     | +     |              | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | +.    | +     | ╁                                      | +     | ╫ | 8     | ╁       | +        | splanade              | 231        | ╁╌    | -  | 355   | +-     | +_       | ┼            | -        | 230   | $\vdash$ | 229    |        | 226   | ╀╌     |
| Area Covered            | Sewer Line                         | US MH DS                                  | 386   | +     | 205    | +        | 384   | ╀     | +            | 101                                    | +-    | +     | ╁                                      | +     | ╀ | [0]   | +       | -        | Stanley Esplanade P/S | , <u> </u> | +     | -  | 356   | ╁╌     | $\vdash$ | -            | <u> </u> | 231   | ┼-       | 230    | -      | 229   | ╀      |

| 227 226 3.06 2<br>227 226 3.06 2<br>226 367 2.10 1.<br>367 366 1.80 1. | 3     | Length in |       | Anna di dinastra |                          |                                     |                   |              |             |                                       |                    |              |           |                    | L                  |              |           |
|--|-------|-----------|-------|------------------|--------------------------|-------------------------------------|-------------------|--------------|-------------|---------------------------------------|--------------------|--------------|-----------|--------------------|--------------------|--------------|-----------|
| 3.06   |       | ٤         | (0/0) | Dis in mm        | وازي (الم)<br>دازي (الم) | Contribud Q2=P.H.F<br>ng Popn in Us | Q2−₽.H.F<br>in U5 | 20/10<br>(%) | Judgethernt | Contributi O2aP.H.F<br>ng Popn in L/s | O2aP.H.F<br>In L/s | 50/65<br>(%) | Jodgement | Contribud Q2eP.H.F | QZeP.H.F<br>in L/s | 01/02<br>(%) | Judgement |
| 2.10   | 2.10  | 69        | 13.9  | 150              | 18.0                     | 32                                  | 0.3               | 2389%        | š           | 32                                    | 0.3                | 5389%        | οK        | 32                 | 0.3                | 5389%        | ğ         |
| 2.10   |       |           |       |                  |                          |                                     |                   | 1            | 1           | 3                                     | Š                  | 2,           | ţ         | 00000              | 2636               | 100          | Ş         |
| 1.80   | 8     | 5         | 2.    | 225              | 35.9                     | 22670                               | 1.7.              | 20%          | 2           | 5055                                  | 8.052              | 9,0          | 2 3       | 00776              | 5.707              | α            | 2         |
| 08.1   | 1.80  | 47        | 4,6   | 88               | 301.7                    | 22670                               | 177.1             | 170%         | š           | 29545                                 | 230.8              | 131%         | ğ         | 20775              | 207                | 27.71        |           |
|  | 1.60  | 16        | 12.5  | 225              | 50.2                     | 22670                               | 177.1             | 28%          | S           | 29545                                 | 230.8              | 22%          | S         | 32288              | 252.3              | 20%          | ž         |
|  | 89:   | 35        | 12.5  | 8                | 422.2                    | 22670                               | 1.77.1            | 238%         | ΟK          | 29545                                 | 230.8              | 183%         | ĕ         | 32288              | 252.3              | 167%         | New       |
|  |       |           |       |                  |                          |                                     |                   |              |             |                                       |                    |              |           |                    |                    |              |           |
| 267 15.21  | 4     | 26        | 29.6  | 150              | 292                      | 15                                  | 0.2               | 16773%       | ΟK          | 19                                    | 0.2                | 13242%       | ğ         | 53                 | 0.2                | 11981%       | ă         |
| 14.44  | 11.31 | E.        | 00    | 55               | 4.8.4                    | 15                                  | 0.2               | 30971%       | ŏ           | 61                                    | 0.2                | 24451%       | ΟĶ        | 21                 | 0.2                | 22122%       | ĕ         |
| 11.31  | 96.6  | 32        | 39.7  | 150              | 30,3                     | 51                                  | 0.2               | 19422%       | ŏ           | 61                                    | 0.2                | 15333%       | OK        | 21                 | 0.2                | 13873%       | ŏ         |
| 96.6   | 5.53  | 82        | 152.8 | 150              | 59.5                     | 15                                  | 0.2               | 38095%       | Š           | 10                                    | 0.5                | 30075%       | оĸ        | 21                 | 0.2                | 27211%       | Š         |
| 5.53   | 2.95  | S         | 51.6  | 150              | 34.6                     | 15                                  | 0.2               | 22141%       | Š           | 61                                    | 0.2                | 17479%       | ö         | 12                 | 0.2                | 15815%       | Ř         |
|  | T     |           |       |                  |                          |                                     |                   |              |             |                                       |                    |              |           |                    |                    |              | :         |
| 222 22.26  | 9.40  | 23        | 136.2 | 150              | 56.2                     | 77                                  | 0.2               | 35970%       | ă           | 61                                    | 0.2                | 28397%       | 9K        | 21                 | 0.2                | 25693%       | Š         |
| 221 19.40 1  | 11.03 | ×         | 279.0 | 150              | 80.4                     | 15                                  | 0.2               | 51483%       | . ОК        | 19                                    | 0.2                | 40645%       | ŏ         | 21                 | 0.2                | 36774%       | χo        |
| ₩  | 10.21 | 22        | 68.3  | 150              | 39.8                     | 15                                  | 0.2               | 25479%       | OK          | 19                                    | 0.2                | 20115%       | ŏ         | 21                 | 07                 | 18199%       | š         |
| 10.21  | 6.21  | 31        | 129.0 | 150              | 54.7                     | 15                                  | 0.2               | 35012%       | OK          | 19                                    | 0.2                | 27641%       | ğ         | ñ                  | 0.2                | 25008%       | ŏ         |
| 220B 6.21  | 4.01  |           | 200.0 | 150              | 68.1                     | 15                                  | 0.2               | 43589%       | OK          | . 61                                  | 0.2                | 34412%       | ŏ         | E .                | 0.2                | 31135%       | ĕ         |
| $\vdash$   | 3.58  | 4.        | 30.7  | 150              | 26.7                     | 15.                                 | 0.2               | 17082%       | OK          | 19.                                   | 0.2                | 13486%       | οĶ        | 21                 | 0.2                | 12201%       | ă         |
| 3.58   | 2.95  | 숙         | 15.8  | 150              | 1.61                     | s:                                  | 0.2               | 12232%       | ∴OK:        | 19                                    | 0.2                | %/\$96       | ΟK        | 21                 | 0.2                | 8737%        | ĕ         |
|  |       |           |       |                  |                          |                                     |                   |              |             |                                       |                    |              |           |                    |                    |              | :.        |
| 213C 2.95  | 1.05  | 53        | 65.5  | 150              | 39.0                     | 45                                  | 0.5               | 8316%        | Ж           | 53                                    | 9.0                | 7061%        | g         | 57                 | 9.0                | 6565%        | ĕ         |
|  |       |           |       |                  |                          |                                     |                   |              |             |                                       |                    |              |           |                    |                    |              |           |
| 218 49.10 .4   | 48.82 | 59        | 6.7   | 150              | 15.0                     | 15                                  | 0.2               | 9577%        | OK          | 19                                    | 0.2                | 7561%        | ŏ         | 21                 | 0.2                | 6841%        | ğ         |
| 217 48.82 3  | 39.43 | 73        | 128.6 | 150              | 54.6                     | 18.                                 | 0.2               | 34957%       | ox          | 19                                    | 0.2                | 27598%       | ŏ         | 121                | 0.2                | 24969%       | ă         |
| 216 39.43 3  | 39.00 | 15        | 28.7  | 150              | 25.8                     | 15                                  | 0.2               | 16503%       | οк          | 19                                    | 0.2                | 13028%       | ΟĶ        | 21                 | 0.2                | 11788%       | ĕ         |
| 215 39.00 1  | 18.30 | 55        | 376.4 | 150              | 93.4                     | 15                                  | 0.2               | 856765       | УО          | 61                                    | 0.2                | 47207%       | ŏ         | 21                 | 0.2                | 42711%       | ğ         |
| 18.30  | 2.15  | 82        | 807.5 | 150              | 136.9                    | 15                                  | 0.2               | 87586%       | ж           | 61                                    | 0.2                | 69147%       | ŏ         | 21                 | 0.2                | 62561%       | ğ         |
| 213 2.15   | 1.57  | 18        | 32.2  | 150              | 8.42                     | 1.5                                 | 0.2               | 17496%       | OK          | 19                                    | 0.2                | 13813%       | ğ         | 2100               | 0.2                | 12497%       | ŏ         |
| 213C 1.57  | 1.05  | 38        | 13.7  | 150              | 8.41                     | 15                                  | 0.2               | 11402%       | ox          | 61                                    | 0.2                | 9001%        | ğ         | . 21               | 0.2                | 8144%        | ă         |
|  |       | . :       |       |                  |                          |                                     |                   |              |             |                                       |                    |              |           | :                  |                    | : :          | :         |
| 366  |       | 35        | 00    | 150              | 0.0                      | 8                                   | 9.0               | %0           | NG          | 7.2                                   | 8.0                | %0           | Š         | 2.8                | 8'0                | - %0         | Ö         |

| $\bigcap$              | _                                  | £                                     |   |       | $\neg \tau$ |       |       |       | $\neg \neg$ | ₹Τ    | $\neg$ |       | -1    |       |       |       |       |       | _1    | Ţ     | T |  | $\neg$ |
|------------------------|------------------------------------|---------------------------------------|---|-------|-------------|-------|-------|-------|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|--|--------|
| 15                     |                                    | J ad getaend                          |   | New   | 2           | Nc.   | ્ર    | New   | ž           | New   | ž      | ¥o.   | Š     | Š     | 8     | Seg   | ž     | Š     | B     | XC.   |   | ŏ                                      |        |
| cy for 20              |                                    | 01/02                                 |   | %0    | 853         | 247%  | 2,4%  | 205%  | 14%         | 118%  | 14%    | 117%  | 14%   | 118%  | 14%   | 117%  | 13%   | 112%  | 13%   | 113%  |   | 520%                                   |        |
| Pipe adequacy for 2015 |                                    | Q2=P.H.F<br>in L/s                    |   | 252.9 | 252.9       | 252.9 | 252.9 | 252.9 | 254.1       | 254.1 | 254.1  | 254.1 | 254.1 | 254.1 | 254.1 | 254.1 | 254.1 | 254.1 | 254.1 | 254.1 |   | 276.4                                  |        |
| ig.                    |                                    | Contributi Q2=P.H.F<br>ng Popo in L/s |   | 32366 | 32366       | 32366 | 32366 | 32366 | 32531       | 32531 | 32531  | 32531 | 32531 | 32531 | 32531 | 32531 | 32531 | 32531 | 32531 | 32531 |   | 35384                                  |        |
| S.                     |                                    | Judgamment                            |   | ž     | NG          | New   | NG    | New   | SN          | New   | Š      | New   | Š     | New   | NG    | New   | NG    | New   | Š     | New   |   | Ř                                      |        |
| cv for 200             |                                    | Q1/Q2<br>(%)                          |   | 88    | 32%         | 270%  | 27%   | 224%  | 15%         | 129%  | 15%    | 128%  | 15%   | 129%  | 15%   | 128%  | 15%   | 122%  | 15%   | 124%  | : | %698                                   |        |
| Pipe adequacy for 2005 |                                    | QZ=P.H.F<br>is L/s                    |   | 231.4 | 231.4       | 231,4 | 231,4 | 231.4 | 232.7       | 232.7 | 232.7  | 232.7 | 232.7 | 232.7 | 232.7 | 232.7 | 232.7 | 232.7 | 232.7 | 232.7 |   | 252.4                                  |        |
| Įź.                    |                                    | Centribud<br>ng Popu                  |   | 29617 | 29617       | 29617 | 29617 | 29617 | 29782       | 29782 | 29782  | 29782 | 29782 | 29782 | 29782 | 29782 | 29782 | 29782 | 29782 | 28782 |   | 32301                                  |        |
| Į.                     |                                    | Judgement                             |   | ş     | ğ           | New   | Š     | New   | ž           | New   | Š      | New   | ž     | »Sc   | ž     | New   | Š     | New   | Š     | New   |   | ΟĶ                                     |        |
| Dine adequacy for 1095 |                                    | 01/Q2<br>(%)                          |   | 250   | 42%         | 351%  | 35%   | 292%  | 20%         | 168%  | 20%    | 167%  | 20%   | 168%  | 20%   | 166%  | 19%   | 159%  | 16%   | 161%  |   | 736%                                   |        |
| an ooke a              |                                    | O2=P.H.P<br>in IAs                    |   | 177.6 | 177.6       | 177.6 | 177.6 | 177.6 | 178.6       | 178.6 | 178.6  | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 | 178.6 |   | 195.0                                  |        |
| ă                      |                                    | Contribut O2=P.H.P<br>ng Popa in L/s  |   | 22730 | 22730.      | 22730 | 22730 | 22730 | 22858       | 22858 | 22858  | 22858 | 22858 | 22858 | 22858 | 22858 | 22858 | 22858 | 22858 | 22858 |   | 24961                                  |        |
| 148                    |                                    | Q1=Capa                               |   | 8     | 74.2        | 623.6 | 61.7  | 518.7 | 35.6        | 299.5 | 35.4   | 297.9 | 35.6  | 299.7 | 35.3  | 297.1 | 33.8  | 284.6 | 34.3  | 288.4 |   | 1436.1                                 |        |
| 2                      | Existing rape octains and capacity | Dis in man                            |   | Š     | 225         | જુ    | 225   | ŝ     | 225         | 200   | 33     | 88    | 22    | 8     | 233   | Š     | 225   | Š     | 225   | Š     |   | 8                                      |        |
|                        | יין אני                            | Gradlent<br>(0/00)                    |   | 8     | 27.3        | 27.3  | 18.9  | 18.9  | 63          | 63    | 6.2    | 6.2   | 6.3   | 6.3   | 6.2   | 6.2   | 5.7   | 5.2   | 5.8   | 8,2   |   | 54.7                                   |        |
| 1 283                  | EXISUR                             | Length in                             |   | 98    | 99          | 8     | 12    | 1.7   | 2           | 88    | \$     | 45    | 2     | 73    | 22    | 22    | 88    | 88    | 12    | 12    |   | 17                                     |        |
|                        |                                    | 33.                                   |   |       | 2.87        | 2.87  | 1.53  | 1.53  | 0.97        | 0.97  | 0.69   | 0.69  | 0.23  | 0.23  | 0.10  | 0.10  | 0.40  | ð.    | -0.47 | -0.47 |   | 1.40                                   |        |
|                        | MHIL                               | US IC                                 |   |       | 4.67        | 4.67  | 2.87  | 282   | 153         | 55    | 60     | 0.97  | 690   | 0.69  | 0.23  | 0.23  | 0.10  | 0.10  | -0.40 | 0.40  |   | -0.47                                  |        |
| vered                  | Line                               | No MRH                                | T | ž     | 38          |       | 363   |       | 35          |       | 192    |       | 366   |       | 205   |       | 25    |       | 358   |       |   | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |        |
| Area Covered           | Sewer Line                         | US MIH                                |   | 35    | 35          |       | 3/5   |       | 363         |       | 362    |       | 36    |       | 360   |       | 205   |       | 25    |       |   | 358                                    |        |

LEGIND: DN = Downtream, Die = Diameter, IL = Invor Lovel, LS = Liters per second, MH = Mathole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantry, UN = Upstrum

| ſ            | 7                                  |   |      |  |       |       |   |         |   | т     |       |       |       | , ,   |      |        |        |         |   | т      | — |          |          |     |      |      | ٠.,   |          | ·    |   |       |       |              |
|--------------|------------------------------------|---|------|--|-------|-------|---|---------|---|-------|-------|-------|-------|-------|------|--------|--------|---------|---|--------|---|----------|----------|-----|------|------|-------|----------|------|---|-------|-------|--------------|
|              | 2                                  | Judyenent                               |      | š                                      | ŏ     | ş     |   | ă       |   | ŏ     | Š     | ΟĶ    | ÖK    | ğ     |      | ò      | OK     | Ş       |   | ŏ      |   | X        | š        | ::  | ò    | Ö    | ŏ     | OK       | 충    |   | Ö     | OK    | ŎĶ.          |
| ŀ            | زر ومر<br>زر                       | Q1/Q2<br>(%)                            |      | 4419%                                  | 3535% | 8462% |   | 3224%   |   | 3259% | 6009% | 2039% | 1183% | 864%  |      | 16264% | 22914% | 10614%  | · | 1221%  |   | 5580%    | 13376%   |     | 504% | 167% | 1137% | 186%     | 367% |   | 2120% | 2471% | 1625%        |
|              | Pipe adequacy for 2015             | 02=P.H.F<br>in L/s                      |      | 0.4                                    | 0.4   | 4,0   |   | 0.3     |   | 7.    | 1.1   | 2.7   | 2.7   | 2.7   |      | 0.3    | 0.3    | 0.3     |   | 3.4    |   | 0.3      | 0.3      |     | 4.1  | 5.8  | 5.8   | 7.9      | 7.9  |   | 2.6   | 2.6   | 2.6          |
|              | 2                                  | Contribud OZ=P.H.F<br>ng Pope<br>in L/s |      | 36                                     | 92    | 36    |   | 33      |   | 102   | 102   | 263   | 263   | 263   |      | 33     | 33     | 33.     |   | 329    |   | 33       | 33       |     | 395  | 557  | 557   | 762      | 762  |   | 245   | 245   | 245          |
|              | 2                                  | Judgement                               |      | ğ                                      | ğ     | š     |   | ğ       |   | ΟK    | OK    | OK    | OK    | Š     |      | ğ      | OK     | ΟK      |   | N<br>X |   | OK       | Ж        | : 1 | Ж    | ОК   | Ж     | ΟK       | χ    |   | OK    | ŏ     | 0K           |
|              | Pipe adequacy for 2005             | Q1/Q2<br>(%)                            |      | 4419%                                  | 3535% | 8462% |   | 3224%   |   | 3259% | %6009 | 2039% | 1183% | 864%  |      | 16264% | 22914% | 10614%  |   | 1221%  |   | 5280%    | 13376%   |     | 504% | 167% | 1137% | 186%     | 367% |   | 2120% | 2471% | 1625%        |
|              | enbope a                           | O2mP.H.F<br>in L/s                      |      | 0.4                                    | 4.0   | 0.4   |   | 0.3     |   | 1.1   |       | 2.7   | 2.7   | 2.7   | **** | 6.3    | 0.3    | 0.3     |   | 3.4    |   | 0.3      | 0.3      |     | 4.1  | 5.8  | 5.8   | 7.9      | 6.7  |   | 2.6   | 5.6   | 2.6          |
|              | 2                                  | Contributi Ozep.H.F.<br>ng Popn in L/s  |      | 36                                     | 36    | 36    |   | 33      |   | 102   | 5     | 263   | 263   | 263   |      | 33     | 33     | 33      |   | 329    |   | 33       | 33       |     | 395  | 557  | 557   | 762      | 762  |   | 245   | 245   | 245          |
| ĺ            | ñ                                  | Judgement                               |      | ŏ                                      | OK    | Ж     |   | OK      |   | ОК    | ğ     | ×     | ğ     | ŏ     |      | ğ      | ĕ      | ŏ       |   | OK     | : | OK.      | ЖО       |     | ΟK   | ŏ    | ŎĶ.   | Š        | ЭК   |   | OK    | ö     | ğ            |
|              | Pipe adequacy for 1995             | (%)                                     |      | 4419%                                  | 3535% | 8462% |   | 3224%   |   | 3259% | %6009 | 2039% | 1183% | 864%  |      | 16264% | 22914% | 10614%  |   | 1221%  |   | 5580%    | 3376%    |     | 504% | 167% | 1137% | 206%     | 407% |   | 4619% | 5455% | 3587%        |
|              | e adequa                           | Q2=P.H.P<br>in L/s                      |      | 9.0                                    | 0.4   | 0.4   |   | 0.3     |   | =     | Ξ     | 2.7   | 2.7.  | 2.7   |      | 0.3    | 0.3    | 63      |   | 3.4    |   | 0.3      | 0.3      |     | 1.4  | 5.8  | 5.8   | 7.1      | 7.1  |   | 1.2   | 1.2   | 1.2          |
|              | Pip                                | Centributi Q2=P.H.F<br>ng Pops in L/s   |      | 36                                     | 36    | 3.6   |   | 33      |   | 102   | 102   | 263   | 263   | 263   |      | 33     | 33     | 33      |   | 329    |   | 33       | 33       |     | 395  | 557  | 557   | 989      | 989  |   | 111   | 111   | 111          |
|              | pacity                             | Ol-Capa<br>city (L/s)                   |      | 16.6                                   | 13.3  | 31.7  |   | 11.1    |   | 34.6  | 63.8  | 55.9  | 32.4  | 23.7  |      | 55.9   | 78.8   | 36.5    |   | 41.9   |   | 19.2     | 46.0     | :   | 20.8 | 9.7  | 65.9  | 14.8     | 29.1 |   | 54.1  | 63.1  | 41.5         |
|              | Existing Pipe Details and Capacity | Die in mm.                              |      | 150                                    | 150   | 150   |   | 150     |   | 150   | 150   | 120   | 55.   | 150   |      | 150    | 150    | -<br>85 |   | 05.    |   | 130      | 150      |     | 150  | 150  | 350   | 150      | 150  |   | 150   | 150   | 1 <u>5</u> 0 |
| dik          | Pipe Des                           | Gradient (0/00)                         |      | 11.8                                   | 7.6   | 43.4  |   | 5.3     |   | 51.7  | 175.8 | 134.5 | 53    | 24.2  |      | 134.8  | 267.5  | 57.4    |   | 75.6   |   | 15.9     | 91.2     | :   | 18.6 | 4.0  | 187.5 | 9.4      | 36.5 | : | 126.2 | 171.5 | 74,2         |
| Koki, Badili | Existing                           | Length in<br>m                          |      | 8                                      | 33    | 4     |   | *       |   | જ     | 8     | 2     | \$    | 8     |      | S      | 22     | જ       |   | 27     |   | 88       | 8        |     | ន    | 29   | S     | જ        | 23   |   | 21.   | 50    | %            |
|              | IL                                 | 71 SQ                                   |      | 38.25                                  | 38.00 | 36.22 |   | 36.22   |   | 32.86 | 21.26 | 12.65 | 10.43 | 86.8  |      | 25.76  | 11.85  | 86.8    |   | 6.94   |   | 9.31     | 6.94     |     | 6.42 | 6.15 | 4.15  | 3.54     | 2.70 |   | 14.70 | 11.27 | 8.8          |
|              | MH IE                              | US II,                                  |      | 38.70                                  | 38.25 | 38.00 |   | 36.40   |   | 36.22 | 32.86 | 21.26 | 12.65 | 10.43 |      | 32.23  | 25.76  | 11.85   |   | 86.8   |   | 10.23    | 9.31     |     | 3,   | 6.42 | 16.15 | 4.15     | 3.54 |   | 17.35 | 14.70 | 11.27        |
| vered        | Line                               | DS MH                                   | Koki | 55                                     | \$5   | 83    |   | 83      |   | 43    | 4     | 4.    | 82    | 3     |      | \$     | 33     | ₩.      |   | 83     |   | ຄ        | 83       |     | 27   | 92   | 7     | ٩        | 4    |   | 0.1   | 6     | ∞            |
| Area Covered | Sewer Line                         | US MH                                   |      | -                                      | 55    | S.    |   | -       |   | 53    | 43    | 42    | 41    | 38    |      | 8      | \$     | 22      |   | 31     |   | g        | 82       |     | 83   | 27   | 56    | 7        | 9    |   |       | 07    | ٥            |
| -            | L                                  | <u> </u>                                | 4    | ــــــــــــــــــــــــــــــــــــــ | ٠     | 1     | J | <b></b> | J |       | ٠     | ч—    | 1     | ь.    | 1    |        |        |         |   |        | L | <u> </u> | <u> </u> |     | 1    |      |       | <u> </u> | Ł    | l |       | 1 '   | i 1          |

LEGEND: DS = Downstream, Dia = Diameter, IL = Invert Level, L/s = Liters per second, MM = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

|                         |                                    | Judgement                            | ŏ     | ĕ          | Ř        | ž    | New  | ĕ    | ğ        | ğ     | ă     | ă     | ğ     | ŏ     | ŏ     | ĕ     | ğ           | ă     |   | OĶ.    | ă                | ĕ         | š     | ă      | ğ        | ğ     | 충      | ă     | ğ     | 충     |
|-------------------------|------------------------------------|--------------------------------------|-------|------------|----------|------|------|------|----------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|---|--------|------------------|-----------|-------|--------|----------|-------|--------|-------|-------|-------|
| Pipe adequacy for 2015  | ŀ                                  | 0/10<br>(%)                          | 707%  | 820%       | 146%     | 296  | 206% | 105% | <br>679% | 881%  | 1679% | 749%  | 455%  | 827%  | 1345% | 1156% | 836%        | 382%  |   | 1833%  | %689             | 3187%     | 34.8% | 1908%  | 2643%    | 2988% | 2075%  | 356%  | 266%  | 430%  |
| Second                  | }                                  | 02-P.H.F<br>in L/s                   | 8.4   | 8.4        | 17.1     | 17.1 |      | 17.1 | <br>3.5  | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3.5   | 3,5         | 3.5   |   | 3.5    | 3.5              | 3.5       | 3.5   | 3.5    | 3.5      | 3.5   | 3.5    | 3.5   | 10.4  | 10.4  |
| Pig                     | $\dagger$                          | Contributi Q                         | 458   | 458        | 1642     | 1642 | 1642 | 1642 | <br>332  | 332   | 332   | 332   | 332   | 332   | 332   | 332   | 332         | 332   |   | 332    | 332              | 332       | 332   | 332    | 332      | 332   | 332    | 332   | 8     | 8     |
|                         |                                    | Judgemant C                          | ΟĶ    | OK.        | OK       | Ş    | New  | ğ    | ΟK       | OK    | ΟK    | ğ     | ŏ     | ğ     | ×     | ğ     | ă           | ŏ     |   | ŏ      | ş                | ×         | ğ     | ŏ      | ŏ        | ОK    | OK     | Š,    | ă     | ğ     |
| v for 200               |                                    | (%)                                  | 707%  | 820%       | 146%     | 2,96 | 206% | 105% | 959%     | 1244% | 2371% | 1059% | 642%  | 1409% | 1900% | 1633% | 1.82%       | 540%  |   | 2600%  | 978%             | 4522%     | 487%  | 2708%  | 3750%    | 4240% | 2945%  | 205%  | 376%  | %609  |
| Pine adocusery for 2005 |                                    | Q2-P.H.F<br>in L/s                   | 8.4   | 8.         | 17.1     | 17.1 |      | 17.1 | 2.4      | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2.4   | 2,4         | 2,4   |   | 2.4    | 2.4              | 2.4       | 2.4   | 2.4    | 2.4      | 2,4   | 2.4    | 2.4   | 7.3   | 7.3   |
| ğ                       |                                    | Contributi                           | 458   | £58        | <u>1</u> | 242  | 1642 | 1642 | 235      | 235   | 235   | 235   | 235   | 235   | 235   | 235   | 235         | 235   |   | 234    | 23.              | 234       | 234   | 234    | 234      | 234   | 234    | 234   | 703   | 703   |
|                         |                                    | Judgement                            | ğ     | ğ          | ş        | ğ    | New  | ă    | <br>ğ    | ğ     | š     | ă     | ğ     | ğ     | ŏ     | ă     | ĕ           | ğ     |   | ŏ      | ğ                | ŏ         | ă     | ŏ      | Ş        | ş     | ΟĶ     | š     | ğ     | ă     |
| 100                     | Pripe adequacy for 1995            | 20//02                               | 1652% | 1916%      | 218%     | 143% | 308% | 157% | 1832%    | 2377% | 4531% | 2022% | 1227% | 2692% | 3630% | 3120% | 2258%       | 1032% |   | 4947%  | 1860%            | 8602%     | 927%  | \$151% | 7134%    | 8066% | \$602% | %096  | 717%  | 1160% |
|                         | e ndedona                          | 02=P.H.F<br>In L/s                   | 2.0   | 2.0        | 11.4     | 11.4 |      | 11.4 | 1.3      | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 1.3   | 5     | 1.3         | 1.3   |   | 1.3    | 1.3              | 13        | 1.3   | 1.3    | 1.3      | 1.3   | 1.3    | 1.3   | 3.8   | 3.8   |
|                         | 2                                  | Contribud Q2=P.H.F<br>ag Popn is L/s | 961   | 182        | 989      | 1096 | 82   | 9601 | 123      | 123   | 133   | 123   | 123   | 123   | 123   | 123   | 123         | 123   |   | 123    | 123              | 123       | 123   | 123    | 123      | 133   | 123    | 123   | 369   | 369   |
|                         | pecity                             | Q1=Caps<br>clty (L/h)                | 33.7  | [85<br>126 | 0.45     | 16.3 | 35.2 | 17.9 | 23.5     | 30.5  | 1.85  | 25.9  | 15.7  | 34.5  | 46.5  | 0.04  | 28.9        | 13.2  |   | 63.4   | 23.8             | 110,2     | 11.9  | 0.99   | 91.4     | 103.3 | 71.8   | 12.3  | 27.6  | 44.6  |
|                         | Existing Pipe Details and Capacity | Die in rum                           | 82    | 8          | 150      | 150  | ş    | 85   | 150      | 150   | 82    | 150   | 05.   | 150   | 150   | 35    | 150         | 150   |   | 150    | 150              | 150       | 85    | 150    | <u>s</u> | 150   | 150    | 55    | 1.50  | 150   |
| dili                    | Pipe Det                           | Crackent<br>(0/00)                   | 1.64  | ŝ          | 26.7     | 11.5 | =    | 13.8 | 23.8     | 40.0  | 145.3 | 28.9  | 10.7  | 513   | 03.3  | 589   | 36.1        | 7.5   |   | 173.2  | 24.5             | 523.8     | 1.9   | 187.8  | 360.2    | 4094  | 222.1  | 6.5   | 32.7  | 85.7  |
| Koki, Badili            | Existing                           | Length in                            | 5     | S          | ٤        | \$   | 4    | 8    | 92       | ဥ     | 2     | 0     | 46    | 23    | 4     | ٤     | 82          | 15    |   | 28     | \$               | <b>\$</b> | \$    | 78     | 4        | 45    | 47     | 23    | =     | 77    |
| Ī                       | 11                                 | DS IT                                | 8     | 2 2        | 683      | 0.0  | 3 5  | 999  | 28.02    | 27.74 | 24.77 | 24.22 | 23.73 | 22.55 | 28.5  | 8     | 18.05       | 14.50 |   | 97.80  | 09 96            | 75.65     | 75.23 | \$6.58 | 45.81    | 25.09 | 14.65  | 14.50 | 8.65  | 4.30  |
|                         | MHIL                               | วน รถ                                | 98    | \$ 8       | 2.70     | , c  | 2 2  | 0.30 | 28.42    | 28.5  | 27.74 | 72 27 | 24.22 | 23 73 | 32.55 | 22.21 | ر<br>ا<br>ا | ě     |   | 102 65 | 07.80            | 99.96     | 75.65 | 75.23  | 60.58    | 45.81 | 25.09  | 14.65 | 14.50 | 10.90 |
| vered                   | Line                               | DS MH                                | -     | ,          | \\       | , (  | •    | -    | 1,7      | 3 5   | 3 5   | , ,   | 1 7   | 2 6   | 3 6   | 1 7   | ; 5         | 2     | : | 2      | Ş                | 3         | 8.4   | 47     | \$       | 45    | 3      | 2     | 2     | 15    |
| Area Covered            | Sewer Line                         | US MIH                               |       | • •        | \        | • •  |      | ,    | ž        | 3   2 | 3 .   | 3 8   | 3 4   | 2 6   | 23    | 3 8   | 3 7         | ۽     | 3 | ٤      | ; [ <del>-</del> | ;<br>[9   | 3     | 48     | 15       | 46    | 84     | 4     | 2     | 18    |

LEGEND: DS = Downsuram, Dia = Diameter, IL = Inver Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity. US = Upsuram

|                        | г  |          | _      |       |   | —т   | - 1  | $\neg \tau$ |       | - 1 | - 1   | -        | - 3   |   |         | ~~т   | т |             | 1 |       |   |       |   |       | - T   |   |        | ~Т        |   |       | <br>$\neg$ |   |
|------------------------|--|----------|--------|-------|---|------|------|-------------|-------|-----|-------|----------|-------|---|---------|-------|---|-------------|---|-------|---|-------|---|-------|-------|---|--------|-----------|---|-------|------------|---|
| يوا                    | Judgement  |          | 히      | ş     | ĺ | ğ    | ĕ    | S           | New   |     | ð     | Ì        | ğ     |   | ğ       | ğ     |   |             |   | ĕ     |   | ă     |   | ğ     |       |   | ĕ      | ă         |   | ğ     | ĕ          |   |
| y for 20               | \$00.00<br>(%)   |          | 1321%  | 1725% |   | 279% | 140% | %96         | 207%  |     | 1516% |          | 116%  |   | 372%    | 427%  |   |             |   | 513%  |   | 623%  |   | 392%  |       |   | 336%   | 5012%     |   | 1377% | 3746%      |   |
| Pipe adequacy for 2015 | 2=P.H.F  |          | 2.2    | 22    |   | 14.7 | 14.7 | 14.7        |       |     | 22    |          | 41.1  | i | 7.1     | 7.1   |   | 48.3        |   | 7.1   | 1 | 7.    |   | 4.12  | 21.4  |   | 64.7   | 7.7       |   | 2.6   | 0.70       |   |
| Ä                      | Contributi Q2=P.H.F  |          | 207    | 202   |   | 1410 | 1410 | 1410        | 1410  |     | 215   | +        | 3950  |   | 684     | 28    |   | 4634        |   | 684   |   | 684   |   | 2052  | 2052  | : | 1069   | 980       |   | 248   | 7149       |   |
| -                      | dycomment  |          | Š      | ĕ     |   | Ř    | ğ    | ğ           | NC.   |     | ğ     | $\dashv$ | ğ     |   | ΟĶ      | ĕ     |   |             |   | ΟĶ    |   | ŏ     |   | ă     |       |   | ŏ      | ă         |   | ŏ     | ğ          | ٠ |
| Pire adequary for 2005 | 01/02<br>(%)   |          | 1321%  | 1725% |   | 352% | 176% | 121%        | 261%  |     | 1516% | 1        | 125%  |   | 372%    | 427%  |   |             |   | 513%  | _ | 623%  |   | 392%  |       |   | 350%   | \$234%    | - | 1377% | <br>3906%  |   |
| Pottage                | OZEPJUF<br>O LA  | $\vdash$ | 2,2 13 | 2,2   |   | 11.6 | 11.6 | 11.6        | .,    |     | 22    | $\dashv$ | 38.1  |   | 7.1   3 | 7.1 4 |   | 45.2        |   | 7.1 5 |   | 7.1 6 |   | ų     | 21.4  |   | 62.0 3 | 62.0   5: | _ | 2.6   | 64.3       |   |
| Pine ad                | but Q2=)   |          |        |       |   |      |      |             | 7     |     |       | -        |       |   |         |       |   |             |   |       |   |       |   | 21.   |       | - |        |           |   |       | [          |   |
| ļ                      | Contributi   |          | 207    | 207   |   | 1117 | 1117 | 1117        | 1117  |     | 215   | _        | 3657  |   | 684     | 684   |   | 4341        |   | 684   |   | 684   |   | 202   | 2052  |   | 8099   | 8099      |   | 248   | 9589       |   |
| ğ                      | Judytement   |          | š      | ğ     |   | Ş    | š    | ğ           | New   |     | ğ     |          | ŏ     |   | ş       | ğ     |   |             |   | ğ     |   | ğ     |   | ŏ     |       |   | OK     | OK<br>OK  |   | ğ     | ŏ          | ſ |
| or for 16              | O1/0z<br>(4%)  |          | 2137%  | 2789% |   | 629% | 315% | 217%        | 466%  |     | 3791% |          | 184%  |   | 372%    | 427%  |   |             |   | 513%  |   | 623%  |   | 392%  |       |   | 436%   | 6511%     |   | 2995% | 4936%      | ĺ |
| Ding adamson for 1005  | 02=P.H.F<br>in L/s   |          | 1.3    | 1.3   |   | 6.5  | 6.5  | 6.5         |       |     | 6.0   |          | 25.9  |   | 7.1     | 7.1   |   | 33.1        |   | 7.1   |   | 7.1   |   | 21.4  | 21.4  |   | 49.8   | 49.8      |   | 1.2   | 50.9       |   |
| ä                      | Contributi<br>ag Popn  |          | 128    | 128   |   | 625  | 525  | 625         | 625   |     | 98    |          | 2490  |   | 684     | 789   |   | 3174        |   | 684   |   | 684   |   | 202   | 202   |   | 5312   | 5312      |   | 114   | 5426       |   |
| 14,000                 | 2.3  | T        | 28.5   | 37.2  |   | 41.0 | 20.5 | 14.1        | 30.4  |     | 34.0  |          | 8.74  |   | 26.5    | 30.4  |   |             |   | 36.5  |   | 44.4  |   | 83.7  |       |   | 217.1  | 3242.6    |   | 35.6  | 2510.9     |   |
| 1                      | Dia in mm  |          | 52     | 8     |   | 55   | 85   | 150         | 82    |     | - 50  |          | 150   |   | 8       | ह्य   |   | 8           |   | 300   |   | 300   |   | 300   | 300   |   | 8      | 8         |   | 55    | 009        |   |
| 11.                    | Executing ripe formula and capacity and ripy (4) = Candlent Dia in mm city (4) = Candlent Dia in mm city (4) |          | 35.0   | 39.65 |   | 72.4 | 18.2 | 8.6         | 9.8   |     | 49.7  |          | 5'86  |   | 30.3    | 39.8  |   | 45.1        |   | 1.4   |   | 2.1   |   | 7.5   | -24.3 |   | 1.3    | 278.9     |   | 54.5  | 167.2      |   |
| Koki, Badili           | Length in  |          | 86     | 56    | - | 42   | 2    | 85          | 8     |     | 73    |          | 8     | - | 32      | 8     |   | 168         |   | 4     |   | 61    |   | 4     | 336   |   | 33     | <u>**</u> |   | 480   | 18         |   |
|                        | ם  |          | 5.85   | 4.30  |   | 1.26 | 0.12 | 8.0         | 89.0  | †   | -0.60 |          | -2.57 |   | 8       | -2.57 |   | 8.          |   | -1.50 |   | -1.33 | : | -1.58 | 7.95  |   | 7.86   | 2.83      |   | 2.83  | -0.19      |   |
|                        | W II DS  | 1        | 9.28   | 5.85  |   | 4.30 | 1.26 | <br>0.13    | 0.1.0 |     | 3.03  |          | 0.60  |   | 0.93    | 89    |   | 0.33        |   | 1.48  |   | -1.29 |   | 1.55  | 0.21  |   | 2.8    | 7.85      |   | 29.00 | 2.82       |   |
| para                   | S WH   |          | 16     | Si.   |   | 4    | =    | -           |       |     |       |          | PS    |   | 8       | K     |   | \ <u>\$</u> |   | 69    |   | \$9   | - | PS69  | 85    |   | 8      | Ξ         |   | Ξ     | 112        |   |
| Area Covered           | US MH DS M   | 1-       | 17     | 191   |   | 5    | 14   | 13          |       |     | 12    |          | _     |   | 7.1     | ę.    |   | 25          |   | S     |   | υ     |   | \$    | PS69  |   | 18     | 01.1      |   | 011   | ===        |   |

LEGEND: DS = Downstream, Dia = Diameter, IL = Invert Level, L/s = Liters per second, MM = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantry, US = Upstream

|                                    |  |            |      |          |  |         |       |  |   |         |       |       |       |       |   |        |    |             |       |          |        |        | F  |       |              |   |       |       | t            |              |          | $\neg$       |
|------------------------------------|--|------------|------|----------|--|---------|-------|--|---|---------|-------|-------|-------|-------|---|--------|----|-------------|-------|----------|--------|--------|----|-------|--------------|---|-------|-------|--------------|--------------|----------|--------------|
| <b>%</b>                           | Judgranut  | ŏ          | ş    | ă        | ş  | ğ       | ğ     | ğ  |   |         | ĕ     | ă     | š     | ĕ     | ļ | ŏ      |    | ŏ           | ŏ     |          | ĕ      | ĕ      |    | ĕ     | ă            |   | ğ     | ă     | ă            |              | SN<br>SN | New          |
| y for 201                          | (%)  | 330%       | 335% | 335%     | 335%   | 347%    | 345%  | 1578%  |   |         | 577%  | 1365% | 1038% | 1939% |   | 28500% |    | 1020%       | 347%  |          | 15042% | 13514% |    | 735%  | 401%         |   | 272%  | 251%  | 361%         |              | 63%      | 136%         |
| Pipe adequacy for 2015             | QZ=P.H.P<br>in L/s   | 69.3       | 69.3 | 69.3     | 69.3   | 69.3    | 69.3  | 69.3   |   |         | 23    | 3.2   | 3.2   | 3.2   |   | 0.3    |    | 3.7         | 3.7   |          | 0.3    | 0.3    |    | 4.2   | 4,2          |   | 19.8  | 80    | 20.0         |              | 24.5     |              |
| ž.                                 | Contribut)   | 7397       | 7397 | 7397     | 7397   | 7397    | 7397  | 7397   |   |         | 88    | 307   | 307   | 307   |   | 25     |    | 357         | 357   |          | 25     | 23     |    | 407   | £            |   | 1898  | 1923  | 1923         |              | 2355     | 2355         |
| <u>.</u>                           | Judgesterent   | ŏ          | ğ    | ă        | š  | š       | ğ     | ð  |   |         | ă     | Š     | ò     | ŏ     |   | ğ      |    | ğ           | ğ     |          | οK     | ğ      |    | ă     | ă            |   | š     | š     | οĸ           |              | NG       | Nc€          |
| Pipe adequacy for 2005             | Q1/Q5<br>(%)   | 344%       | 348% | 348%     | 348%   | 362%    | 360%  | 1643%  |   |         | 577%  | 1365% | 1038% | 1939% |   | 28500% |    | 1020%       | 347%  |          | 15042% | 13514% |    | 735%  | 401%         |   | 272%  | 251%  | 361%         |              | 63%      | 136%         |
| эфефияс                            | 2_P.H.P  | 999        | 9.99 | 9.99     | 9.99   | 9.99    | 9.99  | 9.99   |   |         | 52    | 3.2   | 3.2   | 3.2   |   | S      |    | 3.7         | 3.7   | <u> </u> | <br>   | 0.3    |    | 4.2   | 4.2          |   | 19.8  | 20.0  | 20.0         |              | 24.5     |              |
| Pipe                               | Contributi Q2=P.H.P<br>ng Popa in L/s  | 18         | 42.7 | 2.2      | 2192   | 2012    | 2012  | 7104   |   |         | 280   | 307   | 307   | 307   |   | n      | -  | 357         | 357   |          | n      | 25     |    | 407   | 407          |   | 1898  | 1923  | 1923         |              | 2355     | 2355         |
|                                    | Judgeneur  | ĕ          | ğ    | ş        | ĕ  | -       | ğ     | ŏ  |   |         | ğ     | ÓK    | OK    | ă     |   | ğ      |    | ğ           | ă     |          | ğ      | Š      |    | OK    | οĶ           |   | ŎĶ.   | ΟĶ    | ğ            |              | S        | New          |
| Pipe adequacy for 1995             | 20/00<br>(%)   | 441%       | 447% | 447%     | 447%   | 848     | 461%  | 2107%  |   |         | 745%  | 1717% | 1306% | 2439% |   | 28500% |    | 1238%       | 421%  | -        | 15042% | 13514% |    | %698  | 474%         |   | 433%  | 397%  | 571%         |              | 94%      | 202%         |
| adequae                            | Q2eP.H.F   | \$1.9      | 51.9 | ╁        | <del>                                     </del> | ╂       | 51.9  | 51.9   |   |         | 2.3   | 2.5   | 2.5   | 25    | - | 0.3    |    | 3,1         | 3.1   |          | 0.3    | 0.3    |    | 3.6   | 3.6          |   | 12.4  | 12.7  | 12.7         |              | 16.5     | -            |
| Pipe                               | Centribud Q  | 35.60      | 5540 | 5540     | 5540   | 55.60   | 55.40 | 5540   |   |         | 217   | 244   | 4.    | 44    |   | ង      |    | ğ           | 25    |          | 25     | 25     |    | 34.   | <del>2</del> |   | 261   | 1215  | 1215         | <del> </del> | 1584     | 1584         |
| rity<br>(                          | O1 - C. p. c. | 228.8      | ┼    | ╂        | 1  | ┼       | ┼     | ₩  |   |         | 16.8  | 43.7  | 33.2  | 0.29  | 1 | 74.2   | -  | 37.9        | 12.9  |          | 39.2   | 35.2   |    | 31.1  | 0.7.         |   | 53.7  | 50.3  | 72.2         |              | 15.5     | 33.3         |
| Existing Pipe Details and Capacity | Om is nam  | 8          | ╁┈   | 1        | +  | ╁╌      | ╁     | <del>                                     </del> |   |         | Š     | 150   | 150   | 150   |   | 8      |    | 87          | 85    |          | 55     | 82     |    | 150   | 87           |   | 150   | 35    | 150          | <del> </del> | 150      | 8            |
| Pipe Detail                        | Gradent D  | 4.         | 4    | 4        | 4  | <u></u> | 1.5   | 31.8   |   |         | 12.2  | 82.2  | 47.5  | 165.7 |   | 237.5  |    | 62.0        | 72    |          | 2,90   | 53.4   |    | 41.8  | 12.5         |   | 124.3 | 1.69  | 224.9        |              | 10.3     | 10.3         |
| Existing Pi                        | Lengthin G   | 36         | 86   | \<br>\\$ | 5  | .  5    | 3     | 17   |   | -       | 18    | 53    | 1.    | 4     | - | 2      | ╁╌ | \<br>\<br>\ | 72    |          | ٦      | SS.    |    | 22    | 8            |   | 83    | 8     | 65           | 1            | 68       | 68           |
| П                                  | 2<br>2   | 0.25       | 8, 9 | ř        | 0.40   | 8       | 990   | 2  |   |         | 29.78 | 24,44 | 20.78 | 18.46 |   | 18.46  |    | 13.81       | 13.28 |          | 16.11  | 13.28  |    | 12.36 | 1.50         |   | 29.72 | 22.52 | 11.50        |              | 10.58    | 10.58        |
| MHIL                               | n so   | 0.20       | ┿    | +-       |  | +       |       | ╁  | ╂ |         | 30.00 | 29.78 | ╂╌    | +-    | ┿ | 22.26  | +- | 18.46       | +-    | +        | 22.13  | +      | ┿  | 13.28 | +            | + | 37.55 | -     | ╄            | +-           | 11.50    | <del>-</del> |
| ine                                |  | \ <u>`</u> | +-   |          | ╁  | - -     | +-    | +  | - | Badili  | 8     | ╁     | +-    | +_    | + | 85A    | ╁  | 84A         | ┿     | +-       | 2      | 九      | +- | 20    | +            |   | 8     |       | <del> </del> | +-           | 18       |              |
| Sewer Line                         | US MH I  |            | : :  |          | 11.  | +       | 5 2   | 812  |   | ┤¯<br>│ |       | 92    | 5     | : 8   |   | 8 ye   |    | A 2-8       | 848   | +        | 22     | 1 2    |    | 83A   | ន្ត្រ        |   | 8     | 8     | 8            |              | 2        | <u> </u>     |

LECEND: DS = Downstroam, Dia = Diameter, IL = Inver Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity. US = Upstream

|                         |                                    | ) and guerners!                       |   | Neg<br>N |          | New     | <b>\</b> | <b>≱</b> 0% | T            | New     |   | Š     | T        | 3          |       | Ne.   |   | S<br>Z | Š        |   | Š      | ğ      | ş      |              | ğ    | Š    |          | ă      | Š      | ğ     |   | ÿ    | New  |
|-------------------------|------------------------------------|---------------------------------------|---|----------|----------|---------|----------|-------------|--------------|---------|---|-------|----------|------------|-------|-------|---|--------|----------|---|--------|--------|--------|--------------|------|------|----------|--------|--------|-------|---|------|------|
| for 2015                | -                                  | 70/10<br>20/10                        | + | 3618%    |          | 1352% 1 |          | %609        |              | 403%    |   | 169%  |          | 2671%      |       | 161%  |   | 37%    | 146%     |   | 6304%  | 4749%  | 3856%  |              | 37%  | 143% |          | 5198%  | 4337%  | 1703% |   | 33%  | 128% |
| Pipe adequacy for 2015  | -                                  |                                       |   | 2.9      |          | 9.0     | +        | 14.9        | +            | 22.7 40 |   | 40.6  |          | 2.9 26     |       | 43.6  |   | 61.9   |          |   | 0.6 63 | 0.6 47 | 0.6 38 |              | 63.0 |      |          | 0.6 51 | 0.6 43 | 0.6   |   | 65.9 | 7    |
| Pipe a                  | +                                  | <del></del>                           |   |          | $\dashv$ | +       | +        |             | $\dashv$     | -       | _ |       | $\dashv$ |            |       |       | - |        | 0        |   |        | _      | _      |              |      | 4    |          | -      | -      | _     |   |      | 4    |
|                         | 1                                  |                                       |   | 283      |          | 88      |          | 1434<br>434 |              | 2182    | ļ | 3899  | _        | 283        |       | 4182  |   | 8      | 999      |   | 62     | 62     | 62     |              | 6724 | 6724 |          | 62     | 62     | 62    |   | 7034 | 7034 |
| y G                     |                                    | Judgement                             |   | Neg      |          | ž       |          | New         |              | New     |   | New   |          | New<br>New |       | New   |   | N.     | New      |   | OK     | OK     | ΟĶ     |              | ž    | New  |          | οĶ     | ŏ      | ΟK    |   | ğ    | Nes  |
| 02 LOL 30               |                                    | Q1/Q2<br>(%)                          |   | 3618%    |          | 1456%   |          | 637%        |              | 403%    |   | 172%  |          | 2671%      |       | 164%  |   | 38%    | 148%     |   | 6304%  | 4749%  | 3826%  |              | 37%  | 145% |          | 5198%  | 4337%  | 1703% |   | 33%  | 130% |
| Pine adecusory for 2005 |                                    | 02-P.H.F<br>in L/s                    |   | 2.9      |          | 4.8     |          | 14.3        |              | 22.7    |   | 40.0  |          | 2.9        |       | 42.9  |   | 61.3   |          |   | 9,0    | 9.0    | 9.0    |              | 62,4 |      |          | 9.0    | 0.6    | 9.0   |   | 65.3 |      |
| Í                       |                                    | Contributi O2=P.H.F<br>ng Popn in L/s |   | 283      |          | §       |          | 1372        |              | 2182    |   | 3837  |          | 283        |       | 4120  |   | 6536   | 6536     |   | 82     | 62     | 62     |              | 0999 | 0999 |          | 62     | 62     | 29    |   | 0269 | 0269 |
|                         |                                    | Judgement                             |   | No.      |          | Ž.      |          | ×Sc.        |              | New     |   | New   |          | New        |       | New   |   | S      | New<br>N |   | ğ      | ğ      | ×      |              | NG   | New  |          | ğ      | OK     | ş     |   | NG   | New  |
| 00, 100                 | ripe adequacy for 1995             |                                       |   | 4741%    |          | 1669%   |          | 269%        |              | 625%    |   | 239%  |          | 3499%      |       | 227%  |   | 48%    | 188%     |   | 258020 | 4827%  | 3920%  |              | 47%  | 183% |          | 5283%  | 4408%  | 1731% |   | 42%  | %S91 |
|                         | Borduse                            | 02≈P.H.F<br>in L/s                    |   | 2.3      |          | 7.3     |          | 11.8        |              | 14.6    |   | 28.7  |          | 2.3        |       | 31.0  |   | 48.1   | _        |   | 9:0    | 9.0    | 9.0    |              | 46.4 |      |          | 9.0    | 9'0    | 9.0   |   | 51.2 |      |
|                         | ב<br>ב                             | Contributi<br>ng Pupu                 |   | 216      |          | ğ       |          | 1135        |              | 1406    |   | 2757  |          | 216        | • • • | 2973  |   | 4618   | 4618     |   | 2      | 19     | 20     |              | 4740 | 4740 |          | 150    | 19     | 19    |   | 4915 | 4915 |
|                         | <u> </u>                           | Oly (L/s)                             |   | 106.7    |          | 122.2   |          | 91.0        |              | 91.6    |   | 9.89  |          | 78.7       |       | 70.3  |   | 23.2   | 20.5     |   | 103    | 30.7   | 24.9   |              | 23.1 | 96.4 |          | 33.6   | 28.0   | 11.0  |   | 21.7 | 84.7 |
| 1                       | Existing Pipe Details and Capacity | Die in mm                             |   | 200      |          | 8<br>8  | _        | 200         |              | 200     |   | 82    |          | 200        |       | 82    | - | 82     | 250      |   | 8      | 150    | 150    |              | 150  | 250  |          | 8      | 150    | 55    | - | 55   | 250  |
|                         | and odd                            | Gradient D                            |   | 105.8    |          | 138.9   |          | 694         |              | 677     |   | 43.8  |          | 57.6       |       | 46.0  |   | 23.2   | 23.2     | - | 71.5   | 40.6   | 26.7   | -            | 23.1 | 23.1 |          | 48.6   | 33.8   | S2.   |   | 20.3 | 20.3 |
| Kokı, Badili            | Existing                           | Length in                             |   | 520      |          | 8       |          | 130         |              | 077     |   | 160   |          | 88         |       | 270   |   | 25     | 52       |   | 8      | 8      | 2      | <del> </del> | 88   | 88   |          | 2      | 81     | 23    |   | 73   | 73   |
| Ī                       | ,                                  | <del></del>                           |   | 40.00    |          | 80.03   |          | 30.00       | ļ            | 30.00   |   | 23.00 |          | 23.00      |       | 10.58 |   | 9.26   | 9,26     | İ | 14.08  | 10.41  | 9.26   | -            | 2,69 | 7.69 |          | 10.55  | 7.8.1  | 7.69  |   | 6.21 | 6.21 |
|                         | MH                                 | ri<br>Sõ                              | - | 95.00    |          | 65.00   |          | 40.00       |              | 80.06   |   | 30.00 |          | 87.00      |       | 23.00 |   | 10.58  | ╄        |   | 20.85  | ₩      | ╀      |              | 97.6 | ╄    | <u> </u> | ļ.,    | 10.55  | 7.81  | T | 7.69 | +    |
| cred                    | Line                               | DN WH                                 | - | 20       |          | 52      |          | 2           |              | 2       |   | ద్ద   |          | 8          |       | 2     | - | 4      |          | - | 2      | ╁╌     | ╁      |              | ¥.   | -    |          | 2      | =      | ¥.    | - | 2    |      |
| Area Covered            | Sewer Line                         | N SA                                  | T | ۵        |          | εα      |          | 20          | <del> </del> | ša      |   | ž     |          | 24         | -     | 8     |   | 18     |          | - | 12     | 2      | 57     |              | 4    |      |          | 23     | 22     | Ξ     |   | AII  |      |

LEGEND: DS = Downstream, Dia & Diameter, IL = Invert Level, L's = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity. US = Upstream

| \ \ \                  |                                    | Jedkemoni             | NG<br>NG | New  |   | ğ     | š     |   | 2    | New  | S    | New  | ž     | New  | ž    | New<br>N | ž    | New  | ŏ     | ŏ     | ğ     | ĕ     | ŏ     | ĕ     | ğ     | ğ        | ĕ     | ğ     | ĕ     |
|------------------------|------------------------------------|-----------------------|----------|------|---|-------|-------|---|------|------|------|------|-------|------|------|----------|------|------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-------|-------|
| Pine adequate for 2015 |                                    | (%)                   | 31%      | 121% |   | 894%  | 918%  |   | 86%  | 118% | %%   | 131% | 888   | 131% | 63%  | 136%     | 42%  | 137% | 356%  | 518%  | 250%  | 677%  | 1531% | 581%  | 3153% | 1148%    | 2362% | 1003% | 1702% |
| e selection            |                                    | Q2=F.H.F<br>in L/s    | 629      |      |   | 5.6   | 2.6   |   | 70.6 |      | 20.9 |      | 70.9  |      | 70.9 |          | 70.9 |      | 72.2  | 72.2  | 5.5   | 5.5   | 5.5   | 7.1   | 1.6   | 1.6      | 1.6   | 8.4   | 8.5   |
| , a                    | Ì                                  | Contributi<br>ng Popn | 7034     | 7034 |   | 248   | 248   |   | 7530 | 7530 | 7566 | 7566 | 7566  | 7566 | 7566 | 7566     | 7566 | 7566 | 7706  | 7706  | 530   | 530   | 530   | 280   | 152   | 152.     | 152   | 456   | 456   |
| <u></u>                |                                    | Judgement             | NG       | New  |   | ŏ     | Ř     |   | S    | New  | ð    | New  | S     | New  | SN   | New      | Ŋ    | New  | OK.   | ΟĶ    | жо    | ΟK    | OK    | ŏ     | ò     | οX       | OK.   | ŏ     | ĕ     |
| 20 TOP 208             | 5                                  | Q1/Q2<br>(%)          | 31%      | 123% |   | 894%  | 915%  |   | 90%  | 119% | 100% | 133% | 100%  | 132% | %149 | 138%     | 42%  | 138% | %65€  | \$23% | 250%  | 677%  | 1531% | 581%  | 3153% | 1148%    | 2362% | 1003% | 1702% |
| Ding adams of the 2005 | SOLUTION A                         | Q2=P.H.F<br>in L/s    | 65.3     |      | - | 2.6   | 2.6   |   | 70.0 |      | 70.3 |      | 70.3  |      | 70.3 |          | 20.3 |      | 71.6  | 71.6  | 5.5   | 5.5   | 5.5   | 7.1   | 1.6   | 1.6      | 1.6   | 4.8   | 8.4   |
| ă                      |                                    | Contributi<br>ng Popa | 0269     | 0269 |   | 248   | 248   |   | 7466 | 7466 | 7499 | 7499 | 7499  | 7499 | 7499 | 7499     | 7499 | 7499 | 7639  | 7639  | 530   | 230   | 530   | 684   | 152   | 152      | 152   | 456   | 456   |
|                        | ç                                  | Judgement             | Š        | New  |   | ĕ     | š     |   | OK   | New  | ΟK   | New  | ĕ     | New  | SZ   | New      | NG   | New  | ŏ     | ğ     | ğ     | ğ     | ğ     | క     | ğ     | ğ        | ŏ     | ŏ     | Š     |
|                        | Pipe adequacy for 1975             | (%)<br>(%)            | 40%      | 156% |   | 1944% | 1990% | - | 130% | 173% | 145% | 192% | 144%  | 191% | 93%  | 199%     | 62%  | 200% | 515%  | 751%  | 250%  | 817%  | 1531% | 641%  | 5446% | 1983%    | 4080% | 1732% | 2939% |
|                        | e adecina                          | 02-P.H.F<br>in L/s    | 51.2     |      |   | 1.2   | 1.2   |   | 48.2 |      | 48.5 |      | 48.5  |      | 48.5 |          | 48.5 |      | 49.8  | 49.8  | 5.5   | 5.5   | 5.5   | 6.5   | 6.0   | 6.0      | 6.0   | 2.8   | 2.8   |
| i                      |                                    | Contributi<br>ng Popa | 4915     | 4915 |   | 41    | 114   |   | 5143 | 5143 | 5177 | 5177 | \$177 | 5177 | 5177 | 5177     | 5177 | 5177 | 5317  | 5317  | 88    | 530   | 530   | 620   | 88    | 88       | 88    | 264   | 262   |
|                        | spacity                            | Ole Cape<br>cky (L/s) | 20.5     | 80.1 |   | 23.1  | 23.6  |   | 62.8 | 83.2 | 70.4 | 93.2 | 70.1  | 92.8 | 6.49 | 7.96     | 29.9 | 97.0 | 257.0 | 374.5 | 13.8  | 37.4  | 84.5  | 41.4  | 49.9  | <br>18.2 | 37.4  | 47.6  | 80.8  |
|                        | Existing Pipe Details and Capacity | Dia in mm             | 150      | 250  |   | 150   | 150   |   | 225  | 250  | 225  | 250  | 225   | 250  | 225  | ğ        | 225  | 350  | 225   | ğ     | 150   | 150   | 150   | 55    | 85    | 85       | 150   | 35    | 150   |
| dih.                   | R Pipe Det                         | Gradient<br>(8/00)    | 18.1     | 18.1 |   | 23.0  | 24.1  |   | 9.61 | 19.6 | 24.6 | 24.6 | 24.4  | 24.4 | 10.0 | 10.0     | 4.4  | 4.4  | 327.5 | 150.0 | 8,7   | 603   | 308.1 | 74.0  | 107.5 | 14.2     | 60.3  | 87.8  | 281.7 |
| Koki, Badih            | Existin                            | Cengib in             | 32       | 32   |   | 47    | 8     |   | 72   | 5    | 89   | ŝ    | SS    | \$\$ | 8    | 85       | 8    | 83   | 4     | _     | 22    | 38    | 32    | 8     | 22    | æ        | 83    | 182   | 22    |
|                        | MH II.                             | # %                   | 5.63     | 5.63 |   | 6.93  | 5.63  |   | 4.22 | 4,22 | 2.77 | 2.77 | 1.43  | 1.43 | 28.0 | 0.84     | 0.61 | 0.61 | 0.70  | -0.85 | 79.55 | 77.26 | 67.40 | 63.70 | 80.11 | 84.03    | 80.11 | 78.35 | 63.70 |
|                        | MH                                 | า รา                  | 6.21     | 6.21 |   | 8.01  | 6.93  |   | 5.63 | 5.63 | 4.22 | 4.22 | 2.77  | 2.77 | 1.43 | 1.43     | 0.84 | 0.84 | 190   | 6.70  | 80.08 | 79.55 | 77.26 | 67.40 | 85.59 | 84.50    | 84.03 | 80.11 | 78.35 |
| vered                  | · Line                             | No MH                 | 7,       |      |   | sc    | -     |   | 9    |      | s    |      | 4     |      | 6    |          | 2    |      | ST2   | 198   | 103   | 201   | 9,    | 25    | 12    | %        | 77    | 78    | 75    |
| Area Covered           | Sewer Line                         | US MH                 | ٤        |      |   | 0     |       |   | 7    |      | 9    |      | S     |      | 4    |          | ш.   |      | 7     | STS   |       | 103   | 102   | 20    | 88    | _        | 28    | 77    | 26    |

LECEND: DS \* Downstream, Dia = Diameter, IL = Inver Level, Ls = Liters per second, MM = Manhole, NG = No Good, Popn \* Population, PHF \* Probable High Flow, Q = Quantity. US = Upstream

| Area Covered Koki, Badili Sewer Line MH IL Existing Pipe Details and Capacity | 4                                       | 4                              | Koki, Badili Existing Pipe Details and Cal | adili              | uils and Ca | 151          |                      | g.                                    | e adedas           | - 1 Z        |             | qid                                   | e adequa           | Pipe adequacy for 2005 | 8             | Pig                                   | o adequi           | 121            | 15        |
|---|---|--------------------------------|--|--------------------|-------------|--------------|----------------------|---------------------------------------|--------------------|--------------|-------------|---------------------------------------|--------------------|------------------------|---------------|---------------------------------------|--------------------|----------------|-----------|
| DS MH US IL DN II, Length in Gradient Dis in No.                              | US IL DN II, Length in Gradient (0.000) | 1), Length in Gradlent (0,000) | in Gradient<br>(0/00)                      | Gradient<br>(0/00) | <u>.</u> 5  | E E          | Ol-Capa<br>city (Lh) | Contributi Q2=P.H.F<br>ng Pupa in L/s | O2=P.H.F<br>in L/s | Q1/Q2<br>(%) | Josephanent | Contributi Q2=P.H.F<br>ng Popn in L/s | 02=P.H.P<br>to L's | Q1/Q2<br>(%)           | Jud gustnorif | Contributi Q2mP.H.F<br>ng Popn in L/s | 02mP.H.F<br>in L/s | \$01/05<br>(%) | Judgement |
|   |   |                                |  |                    |             | П            |                      |                                       |                    |              |             | Î                                     |                    |                        |               |                                       |                    | 300            | ;         |
| 63.70 62.95 32 23.4   | 62.95 32 23.4                           | 32 23.4                        | 23.4                                       | 4                  | 135         |              | 23.3                 | 972                                   |                    | 230%         | ă           | 1292                                  | 13.5               | 173%                   | ž Š           | 7671                                  | 55.7               | 45700          | á č       |
| 73 62.95 55.96 41 170.5 150   | 55.96 41 170.5                          | 41 170.5                       | 170.5                                      | 4                  | <u>~</u>    | _1           | 623                  | 21.5                                  | 10.                | 0,7170       | 5           | 7,77                                  | C.C.               | <i>a</i> , ro          | 5             |                                       | 3                  |                | 5 8       |
| 72 55.96 55.71 27 9.3 150   | 55.71 27 9.3                            | 1 27 9.3                       | 9.3  | +                  | 35          | 1            | 14.7                 | 972                                   | 10.1               | 145%         | ă           | 1292                                  | 13.5               | 109%                   | ğ             | 2621                                  | 35                 | %<br>\$5:      | 5         |
| 81 85.17 76.61 48 178.3 150   | 76.61 48 178.3                          | 48 178.3                       | 178.3                                      | $\bot$             |             | Τ_           | 24.3                 | 89                                    | œ:                 | 3653%        | ă           | 233                                   | 2.4                | 2650%                  | ŏ             | 233                                   | 2.4                | 2650%          | ğ         |
| 76.61 71.92 50  | 71,92 50 93.8                           | 50 93.8                        | 93.8                                       | 1                  | 150         | 1            | 46.6                 | 169                                   | 1.8                | 2650%        | ŏ           | 233                                   | 2.4                | 1922%                  | OK            | 233                                   | 2,4                | 1922%          | ŏ         |
| 71.92   | 55.71 58 279.5                          | 58 279.5                       | 279.5                                      | ļ                  | 150         | 1            | 80.5                 | 169                                   | 1.8                | 4573%        | ох          | 233                                   | 2.4                | 3317%                  | ΟK            | 233                                   | 2.4                | 3317%          | ă         |
|   | <del> </del>                            |                                |  |                    |             | _            |                      |                                       |                    | _            |             |                                       |                    |                        |               |                                       |                    |                |           |
| 71 55.71 55.00 19 37.4 150  | 55.00 19 37.4                           | 19 37.4                        | 37.4                                       | ļ                  | 150         |              | 29.4                 | 1229                                  | 12.8               | 230%         | OK          | 1677                                  | 17.5               | %691                   | ş             | 1677                                  | 17.5               | 169%           | ğ         |
| 55.00   | 33.53 23 933.5                          | 23 933.5                       | 933.5                                      | _                  | 150         | -            | 147.1                | 1229                                  | 12.8               | 1149%        | š           | 1677                                  | 17.5               | 842%                   | ΟĶ            | 1677                                  | 17.5               | 842%           | ŏ         |
| 33.53   | 29.11 45 98.2                           | 45 98.2                        | 98.2                                       | ļ                  | 150         |              | 47.7                 | 1229                                  | 12.8               | 373%         | 矣           | 1677                                  | 17.5               | 273%                   | OK            | 1677                                  | 17.5               | 273%           | ă         |
| 29.11   | 24.24 94 51.8                           | 94 51.8                        | 51.8                                       | ┞                  | 150         |              | 3.7                  | 1229                                  | 12.8               | 27156        | ă           | 1677                                  | 17.5               | 198%                   | ΟĶ            | 1677                                  | 17.5               | 198%           | ğ         |
|   |   |                                |  |                    |             |              |                      |                                       |                    |              |             |                                       |                    |                        |               |                                       |                    |                |           |
| 68 33.00 24.24 210 41.7 200   | 24.24 210 41.7                          | 210 41.7                       | 41.7                                       |                    | 200         |              | 67.0                 | 44                                    | 5.7                | 1182%        | New         | 544                                   | 5.7                | 1182%                  | New           | ¥                                     | 5.7                | 1182%          | New       |
|   |   |                                |  |                    |             |              |                      |                                       |                    |              |             |                                       |                    |                        |               |                                       |                    |                |           |
| 67 24.24 23.16 31 34.8 150  | 23.16 31 34.8                           | 31 34.8                        | 34.8                                       | _                  | 150         |              | 28.4                 | 1787                                  | 18.6               | 153%         | OK          | 2235                                  | 23.3               | 122%                   | ğ             | 2235                                  | 23.3               | 122%           | ğ         |
| 23.16   | 21,28 31 60.6                           | 31 60.6                        | 9.06                                       |                    | 150         |              | 37.5                 | 1787                                  | 18.6               | 201%         | ΟK          | 2235                                  | 23.3               | 161%                   | ŏ             | 2235                                  | 23.3               | 161%           | ă         |
| 21.28 19.39 85 22.2   | 19.39 85 22.2                           | 85 22.2                        | 22.2                                       | -                  | 150         |              | 22.7                 | 1787                                  | 18.6               | 122%         | OK          | 2235                                  | 23.3               | 98%                    | NG            | 2235                                  | 23.3               | 98%            | Š         |
| 19.39 85 22.2   | 19.39 85 22.2                           | 85 22.2                        | 22.2                                       |                    | 200         |              | 48.9                 | 1787                                  |                    | 263%         | New         | 2235                                  |                    | 210%                   | New           | 2235                                  |                    | 210%           | New       |
|   |   |                                |  |                    |             |              |                      |                                       |                    |              |             |                                       |                    | -                      |               |                                       |                    |                |           |
| 64 26.62 24.87 35 50.0 150  | 24.87 35 50.0                           | 35 50.0                        | 20.0                                       | _                  | 150         | -            | ¥.                   | 14                                    | 0.1                | 23351%       | ΟX          | 14                                    | 0.1                | 23351%                 | ă             | 14                                    | 0                  | 23351%         | Ä         |
| 63 24.87 19.39 63 87.0 150  | 19.39 63 87.0                           | 63 87.0                        | 87.0                                       |                    | 150         | _            | 44.9                 | 14                                    | 0.1                | 30800%       | ΟK          | 14                                    | 0.1                | 30800%                 | ŏ             | 4                                     | 0.1                | 30800%         | ğ         |
|   |   |                                |  |                    | ٠           |              | 1                    |                                       |                    |              | :           |                                       |                    |                        |               |                                       |                    |                |           |
| 62 19.39 18.05 55 24.4 150  | 18.05 55 24.4                           | 55 24.4                        | 24.4                                       | L                  | 55.         |              | 23.8                 | 1815                                  | 18.9               | 126%         | X           | 2263                                  | 23.6               | 101%                   | ŏ             | 2263                                  | 23.6               | 101%           | ğ         |
| 18.05   | 16.68 62 22.1                           | 62 22.1                        | 22.1                                       | ⊢                  | 150         |              | 22.6                 | 1815                                  | 18.9               | 120%         | ğ           | 2263                                  | 23.6               | 96%                    | NG            | 2263 ··                               | 23.6               | 96%            | Š         |
| 18.05   | 16.68 62 22.1                           | 62 22.1                        | 22.1                                       | $\vdash$           | 8           | -            | 8.8                  | 1815                                  |                    | 258%         | N.C.        | 2263                                  |                    | 207%                   | New           | 2263                                  |                    | 207%           | New       |
|   |   |                                | ╁  |                    | 1           | +            |                      |                                       |                    |              |             |                                       |                    | :                      |               |                                       | :                  | ::             |           |
| 89 23.00 22.66 19 17.9 150  | 22.66 19 17.9                           | 22.66 19 17.9                  | 17.9                                       | +                  | 150         | <del>†</del> | 20.4                 | 4                                     | 2.0                | 13970%       | ğ           | 14                                    | 0.1                | 13970%                 | OK            | 14                                    | 0.1                | 13970%         | ŏ         |
| <u> </u>  | 21.28 16 86.2                           | 21.28 16 86.2                  | 86.2                                       |                    | 150         |              | 44.7                 | 14                                    | 0.1                | 30669%       | Ř           | 14                                    | 0.1                | 30669%                 | ΟĶ            | 14                                    | 0.1                | 30669%         | OK.       |
|   |   |                                |  |                    |             |              |                      |                                       |                    |              |             |                                       |                    |                        |               |                                       |                    |                |           |
|   |   |                                |  |                    |             | 1.           | ļ                    |                                       |                    |              |             |                                       |                    |                        | ;             |                                       |                    |                |           |

LEGEND: DS = Downstream. Dia = Diameter, il. = Invert Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow. Q = Quantity. US = Upstream

|                         |                                    | Judyamani                           | Š      | ĕ      | ł   | 5     | ŏ     | Š        | į    | 5     | 1 | ğ     |                 | ĕ         | ă     | ŏ      | ð     | ŏ        | š     | ğ     | 췽        | 췽     | ă      | ĕ          | - 1 | ă        | Ì | ă        | ĕ      |
|-------------------------|------------------------------------|-------------------------------------|--------|--------|-----|-------|-------|----------|------|-------|---|-------|-----------------|-----------|-------|--------|-------|----------|-------|-------|----------|-------|--------|------------|-----|----------|---|----------|--------|
| Pine adequacy for 2015  |                                    | 20/10                               | 40322% | 31292% | 300 | 4320% | 2963% | 173%     | 1000 | 2989% |   | 5735% |                 | 1687%     | 2686% | 3326%  | 1403% | 888%     | 1319% | 891%  | 1342%    | 655%  | 360%   | 497%       |     | 10513%   |   | 375%     | 9344%  |
| e adeciuai              |                                    | Q2=P.H.F<br>in L/s                  | 0.1    | 0.1    |     | 4.0   | 12    | 25.7     | ;    | 0.6   |   | 9.0   |                 | <u>8:</u> | 1.4   | 1,4    | 7.7   | 7.7      | 7.7   | 7.7   | 7.7      | 7.7   | 7.8    | 7.8        |     | 9.<br>4. |   | 8.3      | 4.0    |
| ž                       |                                    | Contributi<br>ng Popn               | 14     | 4.     | 1   | 42    | 911   | 2467     |      | Š     |   | 57    |                 | 22        | 139   | 139    | 735   | 735      | 735   | 735   | 33.      | 735   | 749    | 749        |     | 88       |   | 801      | 38     |
| y                       | 3                                  | Judgement                           | New    | OK     |     | öK    | ă     | ğ        |      | ğ     |   | ğ     |                 | ĕ         | š     | ă      | ğ     | ŏ        | ğ     | ă     | ŏ        | ŏ     | ĕ      | ğ          |     | ğ        |   | ğ        | ğ      |
| 700C 200 months of 200C | 101 (3                             | Q1/Q2<br>(%)                        | 40322% | 31292% |     | 4320% | 3471% | <br>176% |      | 26865 |   | 5735% |                 | 1687%     | 2686% | 3326%  | 1535% | 971%     | 1442% | 974%  | 1467%    | 716%  | 393%   | 543%       |     | 11097%   |   | 408%     | 9863%  |
| 2000                    | agedon x                           | 27 P.H.F.                           | 0.1    | 0.1    |     | 4.0   | 1.0   | 25.4     |      | 90    |   | 9.0   |                 | 8.1       | 1.4   | 1.4    | 7.0   | 7.0      | 7.0   | 7.0   | 7.0      | 7.0   | 7.1    | 7.1        |     | 0.4      |   | 7.7      | 0.4    |
| å                       |                                    | Contributi<br>ng Popn               | 7      | 14     |     | 42    | 8     | 2434     |      | %     |   | 57    |                 | 170       | 139   | 139    | 672   | 672      | 672   | 672   | 672      | 672   | 989    | 989        |     | 8        |   | 736      | 36     |
| ,                       | ١                                  | Judgement                           | Š      | OK     |     | ĕ     | ğ     | ă        |      | š     |   | ΟK    |                 | OK        | ğ     | χ      | ă     | Š        | ş     | ŏ     | ş        | ЖО    | ð      | ş          |     | οχ       |   | ğ        | ö      |
|                         | Pipe adequacy for 1995             | 5) (%)                              | 40322% | 31292% |     | 4320% | 4141% | 219%     |      | 2989% |   | 5735% |                 | 1687%     | 2686% | 3326%  | 1754% | 1110%    | 1648% | 1114% | :677%    | 819%  | 448%   | %619       |     | 12484%   |   | 464%     | 11096% |
|                         | endedma                            | 02*P.H.F<br>in 1/s                  | 0.1    | 0.1    |     | 0.4   | 6.0   | 20.3     |      | 9.0   |   | 0.6   |                 | 1.8       | 1,4   | 1,4    | 6.1   | 6.1      | 6.1   | 6.1   | 6.1      | 6.1   | 6.3    | 6.3        |     | 0.3      |   | 8.9      | 0.3    |
|                         | 2                                  | Conurbud O2=P.R.F<br>ng Popa in L/s | 1      | 4      |     | 42    | 83    | 1950     |      | ž     |   | 22    |                 | 170       | 139   | 139    | 588   | 288      | 288   | 588   | 288      | 588   | 209    | 602        |     | 33       |   | <b>A</b> | 32     |
|                         | Pecity                             | Qlaccape<br>elty (L/s)              | \$8.8  | 45.6   |     | 18.9  | 35.8  | 44.5     |      | 8.45  |   | 34.1  |                 | 29.9      | 38.9  | 48.2   | 107.4 | 68.0     | 100.9 | 68.2  | 102.7    | 50.1  | 28.1   | 38.8       |     | 41.6     |   | 313      | 37.0   |
|                         | Existing Pipe Details and Capacity | Die in men                          | ន្ត    | 150    |     | 150   | 150   | 150      |      | 150   |   | 150   |                 | 150       | 150   | 150    | 55    | 150      | 150   | 8.    | <u>~</u> | 150   | 8      | 150        |     | 55.      |   | 150      | 150    |
| dili                    | Pipe Det                           | Cradient<br>(6/00)                  | 32.1   | 8.68   |     | 15.4  | 55.3  | 85.5     |      | 52.6  |   | 50.0  |                 | 38.5      | 65.2  | 100.0  | 497.5 | 182      | 439.4 | 200.6 | 454.9    | 108.4 | 34.0   | \$<br>0.49 |     | 74.7     |   | 42.3     | 29.0   |
| Koki, Badili            | Existin                            | Length in                           | 140    | 1,4    |     | 87    | 8     | 99       |      | 19    |   | 22    | ]<br>]<br>]<br> | 56        | \$    | 8      | 9     | 2        | ڄ     | 12    | \$       | 51    | 8      | 83         |     | 8        |   | 2        | 8      |
|                         | 긢                                  | n sa                                | 25.50  |        |     | 19.94 | 16.68 | 10.78    |      | 72.00 |   | 72.00 |                 | 71.00     | 74.00 | 71.00  | 63.04 | 59.85    | 52.82 | 49,41 | 27.12    | 21.59 | \$5.61 | 14.16      |     | 14.16    |   | 10.78    | 10.78  |
|                         | MHIL                               | TI SA                               | 30.00  | 25.50  |     | 21.28 | 19.94 | 16.68    | ٠.   | 73.00 |   | 73.00 |                 | 72.00     | 77 00 | 24.00  | 71 00 | 53.68    | 59.85 | 52.82 | 49.41    | 27.12 | 21.59  | 19.55      |     | 16.40    |   | 14.16    | 14.26  |
| vered                   | Line                               | oN No                               | ş      | 3 8    |     | 88    | 150   | 22       |      | 01.7  |   | 110   |                 | ğ         | 501   | 걸      | ē     | 8        | 8     | 8     | 25       | 8     | ×      | 53         |     | 53       |   | 52       | \$2    |
| Area Covered            | Sewer Line                         | US MH                               | 2      | 8 2    | :   | 88    | 88    | 150      |      | Ξ     |   | T     |                 | 110       | ٤     | ž<br>Š | 5     | <u> </u> | Š     | 8     | 8        | 97    | 8      | 3          |     | 108      |   | 53       | 107    |

LEGEND: DS = Downstream, Dia = Diameter, il. = Invert Level, Us = Liters per second, MH = Manhole, NG = No Good, Popm = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

|  |   | Jud kriment                           | ŭ     | »     | ă     | : | 2    | ¥.   | Š        | **   | š     | š     | ĕ     |   | New   | Š     | ă     |    | ă     | ğ     |   | ă        | ă     | ğ     | ă     | ð     |   | Š     | Ž          |
|--|---|---------------------------------------|-------|-------|-------|---|------|------|----------|------|-------|-------|-------|---|-------|-------|-------|----|-------|-------|---|----------|-------|-------|-------|-------|---|-------|------------|
| Pipe adequacy for 2015   |   | 20/10                                 | 70%   | 151%  | 4098% |   | 45%  | 177% | 35%      | 137% | 1543% | 1082% | 1693% | - | 2412% | 796%  | 492%  |    | 1677% | 2385% |   | 476%     | 503%  | 310%  | 417%  | 322%  |   | 81%   | 107%       |
| adequac  | -                                       | 02-P.H.F<br>In L's                    | 35.2  |       | 4,0   |   | 36.4 |      | 36.4     |      | 8:1   | 8.1   | 8.1   |   | 1.8   | 5.5   | 5.5   |    | 1.8   | 23    | 1 |          | 8.1   | 2.5   | 8.1   | 8.1   |   | 45.3  |            |
| ğ.   |   | Contributi                            | 3380  | 3380  | 88    | + | 3492 | 3492 | 3492     | 3492 | 176   | 176   | 176   |   | 176   | 528   | 528   |    | 176   | 22    |   | 778      | 778   | 778   | 778   | 778   |   | 4344  | 4344       |
| 8  |   | Judywnent                             | NG    | New   | ÖK    |   | ğ    | New  | ğ        | New  | οĶ    | ŏ     | OK    |   | NGN   | OK    | Ö     |    | Ж     | ğ     |   | ă        | š     | χo    | ğ     | ŏ     |   | NG    | New<br>New |
| cv for 200   |   | \$10<br>(%)                           | 73%   | 157%  | 4325% |   | 87%  | 184% | 36%      | 142% | 1543% | 1082% | 1693% |   | 2412% | .%962 | 492%  | :* | 1677% | 2385% |   | 486%     | 514%  | 316%  | 425%  | 328%  |   | 8.4%  | 111%       |
| Pine adequacy for 2005   |   | 92.H.Y<br>in C                        | 34.0  |       | 0.4   |   | 35.0 |      | 35.0     |      | 1.8   | 1.8   | 1.8   |   | 1.8   | 5.5   | \$.\$ |    | 1.8   | 1.8   |   | 7.9      | 7.9   | 7.9   | 7.9   | 7.9   |   | 43.5  |            |
| 1  |   | Contributing Popu                     | 3264  | 3264  | 36    |   | 3358 | 3358 | 3358     | 3358 | 176   | 176   | 176   |   | 176   | 828   | 528   |    | 176   | 176   |   | 762      | 762   | 792   | 762   | 762   |   | 4178  | 4178       |
| \[\sqrt{\sq}}\sqrt{\sq}}}}}}}}\eqiintite\sent\sign{\sqrt{\sq}}\sqrt{\sq}\sq}\sqrt{\sq}\sq}\sqrt{\sq}\sq}\sq\sint{\sq}\sq}\sq}\sign{\sq}\sq}\sq\sint{\sint{\sint{\sin}\exiting{\sq}\sign{\sq}\sq}\sq}\s |   | Judgement                             | ž     | New   | ΟK    |   | NG   | New  | ON       | New  | ğ     | ŏ     | ğ     |   | New   | ğ     | ğ     |    | ŏ     | ŏ     |   | OK       | OX    | OK    | ŏ     | ŏ     |   | NG    | New        |
| 9. for 19  | ripe aurguacy for 1775                  | Q1/Q2<br>(%)                          | 2568  | 192%  | 4866% |   | 58%  | 225% | 45%      | 174% | 1543% | 1082% | 1693% |   | 2412% | 2962  | 492%  |    | 1677% | 2385% |   | 200%     | \$27% | 325%  | 437%  | 337%  |   | 100%  | 132%       |
| a de la constanta de la consta | and and and and and and and and and and | 02_P.H.F<br>In L/s                    | 27.8  |       | 0.3   |   | 28.5 |      | 28.5     |      | 1.8   | 1.8   | 1.8   |   | 1,8   | 5.5   | 5.5   |    | 1.8   | 1.8   |   | 7.7      | 4.7   | 7.7   | 7.7   | 66    | · | :36.6 |            |
| è  |   | Contributi Q2=P.H.F<br>ng Popn In L/s | 3668  | 2668  | g     |   | 2738 | 2738 | 2738     | 2738 | 176   | 176   | 176   |   | 176   | \$28  | 528   |    | 176   | 176   |   | 742      | 742   | 742   | 742   | 742   |   | 3518  | 3518       |
|  | à à                                     | 44 (L%)                               | 24.7  | 53.3  | 16.2  |   | 16,4 | 64.2 | 12.7     | 49.7 | 28.3  | 19.8  | 31.0  |   | 44.2  | 43.8  | 27.1  |    | 30.7  | 43.7  |   | 38.6     | 40.8  | 25.1  | 33.8  | 26.1  |   | 36.5  | 48.3       |
| 3  | Existing Pipe Details and Capacity      | Die in mm                             | 150   | 83    | 150   |   | 150  | 250  | 150      | 250  | 150   | 150   | 150   |   | ő     | 150   | 55    |    | 8     | 55    |   | <u>3</u> | 150   | જ     | 55    | 150   |   | 223   | 250        |
| dir.   | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2   | Gradkent<br>(0/90)                    | 26.4  | 26.4  | 11.3  |   | 11.7 | 11.7 | 7.0      | 7.0  | 34.5  | 17.0  | 41.5  |   | 18.2  | 82.6  | 31.6  |    | 7.04  | 82.5  |   | 8        | 71.7  | 27.1  | 49.1  | 29.3  |   | 99    | 9.9        |
| Koki, Badili   | Existin                                 | Length in                             | 8     | 80    | 159   |   | 72   | 72   | <b>%</b> | 98   | 12    | 56    | 2     |   | ŝ     | 85    | ğ     |    | 22    | 2     |   | 12       | 36    | 52    | 23    | 8     |   | 2     | 2          |
|  | 1                                       | £ 6                                   | × 67  | 8.67  | 8.67  |   | 7.83 | 7.83 | 7.23     | 7.23 | 29.49 | 28.54 | 28.00 |   | 28.00 | 23 21 | 19.96 |    | 25.98 | 19.96 | · | 15.01    | 12.43 | 11.29 | 10.16 | 7.23  |   | 19.9  | 6.61       |
|  | MHIL                                    | <b>11</b> SA                          | 87.01 | 10.78 | 9.43  |   | 8.67 | 8.67 | 7.83     | 7.83 | 31.25 | 20.40 | 28.54 |   | 30.00 | 28.00 | 23.21 |    | 27.08 | 25.98 |   | 9661     | 15.01 | 12.43 | 11.29 | 10.16 |   | 7.23  | 7.23       |
| vered  | Line                                    | DS MH                                 | 2     | ;     | 5.    |   | 200  |      | 23       |      | 88    | 8.5   | 2     |   | 28    | 2     | 32    |    | 33    | 32    |   | 33       | 30    | 23    | 82    | 22    |   | 92    |            |
| Area Covered   | Sewer Line                              | US MH<br>No                           | ٥     | ;     | 106   |   | 51   |      | 8,       |      | 83    | 3 8   | 2     |   | 010   | 2     | 83    |    | 24    | 33    |   | 33       | 31    | g     | જ     | 88    |   | 27    |            |

LEGEND: DS a Downstream, Dia = Diameter, L. = Invert Lovel, L/s = Liters per second, MM = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

| Ę         |   |
|-----------|---|
| 3         |   |
| 5         |   |
| Δ,        |   |
| 5         |   |
| M         |   |
| ${\bf S}$ |   |
| -         |   |
| - €       |   |
| š         |   |
| 3         |   |
| Ö         |   |
| H         |   |
| Ó,        |   |
|           |   |
| ٩         |   |
| ũ.        |   |
| 20        |   |
| Ŧ         |   |
| •         |   |
| 즟         |   |
| ş         |   |
| ş         |   |
| α,        |   |
| 47        |   |
| 苦         |   |
| Σ         |   |
| Ę         |   |
| 3         |   |
| 4         |   |
| ₹.        |   |
| ੂ         |   |
| -         |   |
| Ē         |   |
| Æ         |   |
| ۰         |   |
| નં        |   |
| - 8       |   |
| Ŭ         |   |
| ٥         |   |
| Z.        |   |
| B         |   |
| õ         |   |
| Ζ.        |   |
| ģ         |   |
| 2         |   |
| á         |   |
| Ź         |   |
|           |   |
| Ī         |   |
| >         |   |
| _         |   |
| Š         |   |
| Ş         |   |
| 3         |   |
| ŧ         |   |
|           |   |
| ç         |   |
|           |   |
| 별         |   |
| of:       |   |
| ۲         |   |
| -         |   |
| Š         |   |
| ۲         |   |
| 2         |   |
| Ş         |   |
| É         |   |
| 1         |   |
| į.        |   |
| - 7       |   |
| 9         |   |
| 2         |   |
| a         |   |
| Ã         |   |
| H         |   |
|           |   |
| Ω         |   |
| é         |   |
| ā         |   |
| ž         |   |
| 2         |   |
| 3         |   |
| Я         |   |
| Č         |   |
| v         |   |
| Č         | į |
| CEND: D   |   |
| 5         |   |
| ú         |   |
| ٤,        |   |

| _                      |                                    |                                       |                  | —т   |  |       |         | -     | • |      | <br>      |        | - 1 |      |      | т    | <del></del> | т              |      |      |          | <br>-1   |       |   | _     | $\neg \tau$ | -т    |   |       | 7 |
|------------------------|------------------------------------|---------------------------------------|------------------|------|--|-------|---------|-------|---|------|-----------|--------|-----|------|------|------|-------------|----------------|------|------|----------|----------|-------|---|-------|-------------|-------|---|-------|---|
| 5                      |                                    | Judjement                             | 욋                | New  |  | ğ     | ğ       | ă     | 1 | ğ    | ĕ         | ĕ      |     | ă    | ž    | New  | ž           | New            | ð    | ŏ    | ĕ        | ğ        | ă     |   | ð     | _1          | New   |   | Ne.   |   |
| Pipe adequacy for 2015 |                                    | Q1/Q2<br>(%)                          | 77%              | 102% |  | 4674% | 3815%   | 3384% |   | 172% | 2099%     | 8011%  |     | 117% | 46%  | 105% | 71%         | 153%           | 113% | 170% | 769%     | *100%    | 391%  |   | 289%  |             | 1087% |   |       |   |
| e adequa               |                                    | Q2~P.H.F<br>In L/s                    | 45.3             |      |  | 8.0   | 8.0     | 8.0   |   | 46.4 | 4.0       | \$     |     | 47.2 | 47.2 |      | 47.2        |                | 47.2 | 48.7 | 48.7     | 103.2    | 103.2 |   | 164.8 |             | 6.0   |   | 159.0 |   |
| 2                      |                                    | Contribution R Poper                  | 4344             | 4344 |  | 7.    | 7,4     | 72    |   | 455  | <br>38    | 88     |     | 4532 | 4532 | 4532 | 4532        | 4532           | 4532 | 4673 | 4673     | 12379    | 12379 |   | 19776 |             | 572   |   | 20348 |   |
|                        |                                    | ).                                    | Š                | New  |  | š     | š       | 충     |   | ð    | ×         | ă      |     | š    | NG   | New  | NG          | New            | ΟK   | OK   | ŏ        | ğ        | ğ     |   | ĕ     |             | New   |   | New   |   |
| v for 200              |                                    | 01/02<br>(%)                          | %08              | 106% |  | 2963% | 4868%   | 4330% |   | 180% | 5382%     | 9512%  |     | 122% | \$1% | 110% | 74%         | 160%           | 118% | 177% | 802%     | <br>408% | 399%  |   | \$909 |             | 1087% |   |       |   |
| Pine adamient for 2005 |                                    | Q2eP.H.P<br>in L/s                    | 43.5             |      |  | 9.0   | 9.0     | 9.0   |   | 2.43 | 0.4       | 0.4    |     | 45.3 | 45.3 |      | 45.3        |                | 45.3 | 46.7 | 46.7     | 101.0    | 101.0 |   | 160.2 |             | 99    |   | 165.0 |   |
| S S                    | -                                  | Contribution Rg Fops                  | 4178             | 4178 |  | 58    | 28      | 58    |   | 4272 | 36        | 36     |     | 4344 | 434  | 4344 | 4344        | 4344           | 4344 | 4485 | 4485     | 12124    | 12124 |   | 19228 |             | 572   |   | 19800 | 1 |
|                        |                                    | Judgeman                              | Š                | New  |  | ×     | OK<br>X | ×     |   | ğ    | ŏ         | OK     |     | ş    | ž    | New  | ž           | New            | ă    | ğ    | ş        | ŏ        | š     |   | š     |             | New   |   | Zew.  |   |
| 2001                   | 3 10r 137                          | Q1/Q2<br>(%)                          | 250              | 125% |  | %1016 | 7429%   | 20199 |   | 214% | <br>6055% | 10701% |     | 145% | 61%  | 131% | 88%         | 190%           | 140% | 209% | 948%     | 483%     | 472%  |   | 795%  |             | 1087% |   |       |   |
| 1006                   | adecima                            | 22-24.F                               | 36.6             |      |  | 4.0   | 4.0     | 0.4   |   | 37.4 | 0.3       | 0.3    |     | 38.0 | 38.0 |      | 38.0        |                | 38.0 | 39.5 | 39.5     | 85.4     | 85.4  |   | 122.1 |             | 6.0   |   | 126.9 |   |
| à                      | 2                                  | Concribud Q2=P.H.F.<br>ng Pops in L/s | 3518             | 3518 |  | 38    | 38      | æ     |   | 3588 | 33        | 32     |     | 3652 | 3652 | 3652 | 3652        | 3652           | 3652 | 3793 | 3793     | 9110     | 9110  |   | 14650 |             | 272   |   | 15222 |   |
|                        | À CO                               | OleCaps<br>cky (L/s)                  | 24.7             | 46.0 |  | 36.0  | 29.4    | 26.2  |   | 9.67 | <br>20.2  | 35.7   |     | 55.5 | 23.1 | 49.7 | 33.6        | 72.4           | 53.3 | 82.6 | 374.5    | 412.3    | 403.2 |   | 970.8 |             | 64.8  |   |       |   |
|                        | Existing Pipe Details and Capacity | Dia is man                            | 222              | 250  |  | 150   | 150     | 82    |   | 225  | 85        | 85     |     | 225  | 225  | 8    | 225         | 38             | 225  | 225  | SE<br>SE | 450      | 450   |   | 909   |             | 200   |   | 450   |   |
| iiii                   | Pipe Deta                          | Cradket (9/06)                        | 3                | 0'9  |  | 56.0  | 37.3    | 29.5  |   | 31.7 | 17.6      | 54.9   |     | 15.2 | 2.6  | 2.6  | 5.6         | 5.6            | 14.1 | 33.8 | 150.0    | 20.9     | 20.0  |   | 25.0  |             | 39.0  |   | -22.6 |   |
| Kola, Baduli           | Existing                           | Length in                             | 8                | 8    |  | 8     | 83      | 22    |   | 103  | 4         | 8      |     | 2    | 72   | 2    | 23          | N <sub>2</sub> | 82   | 42   |          | Ξ        | 7     |   | 2     |             | 340   |   | 1160  |   |
| ſ                      | 2                                  | 3                                     | 8                | 8,8  |  | 10,68 | 80.00   | 8,8   |   | 2.80 | 4.72      | 2.80   |     | 36   | 1.41 | 14.  | 1.27        | 127            | 0.72 | 0.70 | 0.85     | -1.08    | -1.22 |   | -1.27 |             | -1.27 |   | 25.00 |   |
|                        | MH IC                              | US IL                                 | 199              | 199  |  | 15.66 | 10.68   | 8,48  |   | 8.8  | 2.<br>4.  | 4.72   |     | 2.80 | 7 60 | 8    | 141         | 4              | 127  | 0.72 | 6.70     | -0.85    | -1.08 |   | -1.22 |             | 12.00 |   | -1.27 |   |
| - [                    | Line                               | Ne MH                                 | \<br>\<br>\<br>\ | 1    |  | 56    | 8       | 23    |   | 22   | \x<br>    | 42     |     | 23   | 5    |      | 84          | ?              | 14   | ST47 | 198      | 119A     | 119   | - | ĸ     |             | 82    | _ | D13   |   |
| Area Covered           | Sewer Line                         | NS MH                                 | 7,               | 3    |  | 52    | :   %   | SS    |   | \sq  | 38        | 33     |     | 72   | 23   |      | 04          |                | \$   | 2    | ST47     | 198      | 119A  |   | 611   |             | DIS   |   | æ     |   |

|              | 15                                 | Length in Crackent Dia in num City (Lik) ng Popn in Lik (%) laukemana ng Popn in Lik (%) Laukemana ng Popn in Lik (%) laukemana ng Popn in Lik (%) |
|--------------|------------------------------------|--|
|              | Pipe adequacy for 2015             | Q1/Q2<br>(%)   |
|              | e adequa                           | 02-P.H.F<br>h L/s  |
|              | ğ                                  | Contributi<br>ag Popn  |
|              | 50                                 | Judgement  |
|              | Pipe adequacy for 2005             | Q1/Q2<br>(%)   |
|              | e adequa                           | 02=P.H.F<br>in L/s   |
|              | Ρĭ                                 | Contributi<br>ng Popn  |
|              | 95                                 | Jacky ermant.  |
|              | cy for 19                          | 01/Q2<br>(%)   |
|              | Pipe adequacy for 1995             | QZ=P.H.F<br>in L/s   |
|              |                                    | Contributi<br>ng Pepu  |
|              | Existing Pipe Details and Capacity | O1=Cape<br>city (L/s)  |
|              | ails and C                         | Dia in mun   |
| dili         | Pipe Deu                           | Crattent<br>(0/00)   |
| Koki, Badili | Existin                            | 2<br>5 e   |
|              | 711                                | ⅎ  |
|              | MH                                 | Na TI SO   |
| vered        | sewer Line                         | No No No   |
| Area Covered | Sewer                              | US MH  |

LEGEND: DS \* Downstream, Dia = Diameter, IL, \* Invert Level, LLs = Liters per second, MM = Manhole, NG = No Good, Popm = Population, PHF \* Probable High Flow, Q \* Quantity, US = Upstream

|                        |   |          |          |         |         |        |          |                 | _~          |       |          |               |   |         | _ |          |          | <del></del> - | -,-   | _            |      |                  |       |          |         | - |          | _ |         |         |          |                              |
|------------------------|---|----------|----------|---------|---------|--------|----------|-----------------|-------------|-------|----------|---------------|---|---------|---|----------|----------|---------------|-------|--------------|------|------------------|-------|----------|---------|---|----------|---|---------|---------|----------|------------------------------|
| S                      | Judgenent   |          | New      | ð       | 5 8     | ð      | ŏ        |                 | ă           | ă     |          | ă             |   | ğ       |   | ĕ        | į        | ₹             | ğ     |              | 2    | 5                | ł     | 5 8      | 5       |   | 히        |   | New     | New     |          | Š                            |
| v for 201              | 00,00   |          | 822%     | 20776   | 0/ 1//3 | 521%   | 8378%    |                 | 342%        | 316%  |          | 10682%        |   | 3067%   | 1 | 3656%    |          | 2308%         | 17710 |              | 226C | 2000             | 14730 | 04.00    | 2/7/    |   | 133%     |   | 280%    | 438%    |          | 1114%                        |
| Pipe adequacy for 2015 | 02=P.H.F<br>In L/s  | <b>!</b> | 159.0    | 1       | 十       | 5.0    | 5        | 1               | 0.0         | 6.0   |          | 250           | 7 | 50      | 一 | 5.       | _        | 50            | ١,    |              |      | 3                | ,     | 3 ,      | 3       |   | 2        | 1 | 12.7    | 22.5    | T        | 33                           |
| E S                    | Contributi Q  | <b>-</b> | 20348    | 1       | 3       | 479    | 84       | ,               | 575         | 575   |          | <del>2,</del> | 1 | £\$     |   | <u> </u> | 1        | 84            | 6     | 1            | 1    | ş                | ì     | 0, 5     | <u></u> |   | 959      |   | 1222    | 2158    |          | 316                          |
|                        | Į.  |          | New      | +       | ś       | ğ      | Š        | 5               | ĕ           | ΟK    |          | ĕ             |   | ă       |   | ğ        | 1        | ğ             | à     | <del> </del> | -    | 5                | 1     | 5        | ă       |   | ă        |   | New     | New     |          | New                          |
| Pine adequacy for 2005 | %)<br>(%)   |          | 792%     |         | 2198%   | 605%   | 03700    | 2               | 387%        | 357%  |          | 10682%        |   | 3067%   |   | 3656%    | 1        | 2908%         | 201   | 0/1//1       |      | 3300%            | 1     | 147.5%   | 973%    |   | 143%     |   | 280%    | 438%    |          | 1262%                        |
| decuacy                | Par.H.F   | H        | 165.0 7  | _       | $\neg$  | £3     | y c      | 1               | 5.3         | 5.3   |          | 0.5           |   | 0.5     |   | 1.5      | 一        | 0.5           | 十     | 3            |      | <u> </u>         | 1     | 1        | ر<br>د  |   | 2        | - | 12.7    | 22.5    | -        | 2.9                          |
| a su Ki                | Countibuti Q2mP.H.F   | +        | 19800    |         | 80      | £      | -        | +-              | §<br>8<br>1 | 505   |          | 48            |   | 48      |   | 4        |          | 84            |       | 047          | -    | \$ <del>4</del>  | +     | 8        | 336     | 1 | 883      |   | 1222    | 2158    |          | 279                          |
|                        | Judgement Con   |          | New 19   | -       | ğ       | ۶<br>۱ | -        | {               | ¥           | ğ     |          | χ             |   | OK      |   | ŏ        | $\dashv$ | 송             | +     | š            | +    | ğ                |       | ğ        | ğ       |   | ğ        |   | New     | New     | $\dashv$ | New                          |
| 1005                   | 01/02<br>(%)  | -        | 1030% N  |         | 2443%   | 771%   |          | 02/0/20         | 469%        | 432%  |          | 10682% (      |   | 3067%   |   | 3656%    | $\dashv$ | 2908%         |       | 1771%        |      | 3365%            |       | _        | 973%    |   | 158%     |   | 805%    | 446%    |          | 1551% 1                      |
| Discondendary Con 1005 | 9 14 4<br>0 5   | -        | $\vdash$ | -1      |         | -1     |          | ╅               | +           | ╁     |          | 0.5 106       |   | 0.5 300 |   | 1.5 36   |          | 0.5           | -1-   | 2.5 17       |      | 0.5              |       | _        | 3.5 97  | - | 8,4      |   | 12,3 80 | 22.1 44 |          | 2.4 15                       |
| Di                     | nut Ozap.H.F  | -        | 2 126.9  |         | 0.5     | 3,4    | -        | 3               | 4.4         | 4.4   | -        | -             |   |         |   |          |          | +             | -     | -            | -    | +                | _     | -        | -       |   |          |   |         |         |          | $\left  \cdot \cdot \right $ |
| -                      | Contributs  | -        | 6 15222  | $\perp$ | 45      | 324    | $\dashv$ | \$ <del>1</del> | 420         | 420   | <u> </u> | 84            |   | 48      |   | 144      |          | 4,8           | +     | 240          | 4    | \$ <del>\$</del> | 4     | -        | 336     |   | 25<br>25 |   | 1184    | 2120    |          | , 227                        |
|                        | Ol=Capa<br>city (L/s)   |          | 1306.6   |         | 11.4    | 26.0   |          | 2.14<br>2.14    | 20.5        | 18.9  | _        | 53.4          |   | 15.3    |   | 54.8     |          | 14.5          | 1     | 4            |      | 16.8             |       | \$<br>\$ | 34.1    |   | 13.3     |   | 993     | 98.4    |          | 36.7                         |
|                        | Die in min  |          | 909      |         | 150     | 150    |          | 2               | 150         | 55    |          | 150           |   | 150     |   | 150      |          | 150           |       | ह्र          |      | <u>ક્</u>        |       | 3        | 150     |   | 150      |   | 8       | 200     |          | 8                            |
| į                      | Existing type Detains and Capacity  mgh in Gradent Die in min (1) (4) (4) |          | 45.3     |         | 5.7     | 29.2   |          | 75.7            | 18.1        | 15.4  |          | 123.0         |   | 10.1    |   | 129.7    |          | 9.1           |       | 84.5         |      | 12.2             |       | 98.      | 20.0    |   | 7.6      |   | 21.7    | 90.0    |          | 12.5                         |
| Kila Kila              | External Length in  |          | 140      |         | 69      | 61     |          | 89              | 65          | 48    |          | 30            |   | 73      |   | 53       |          | 89            |       | 4            |      | 1                |       | ×2       | 45      |   | 62       |   | န္တ     | 8       |          | 08                           |
|                        | 늴   |          | 18.66    |         | 18.66   | 16.88  |          | 16.88           | 15.81       | 15.07 |          | 30.34         |   | 30.34   |   | 26.58    |          | 26.58         |       | 23.20        |      | 23.20            |       | 17.32    | 15.07   |   | 14.85    |   | 98.50   | 53.50   |          | 53.50                        |
|                        | MH III  |          | 25.00    |         | 19.05   | 18.66  |          | 22.10           | 88.91       | 18.51 |          | 34.03         |   | 31.08   |   | 30.34    |          | 27.20         |       | 26.58        |      | 24.14            |       | 23.20    | 17.32   |   | 15.07    |   | 126.00  | 98.50   |          | 54.50                        |
| 'ered                  | Line<br>DS MH<br>No   | T        | S.       |         | 77      | 92     |          | 92              | ž           | . 4   | :        | 120           |   | 2       |   | 8        |          | 8             |       | 68           |      | 8                |       | 88       | 74      |   | 25       |   | 307     | 305     |          | 305                          |
| Area Covered           | Sewer Line US MH DS M No No   |          | 510      |         | 229     | 2      |          | 27              | 3,          | \$ \  | •        | .             |   | 25      |   | 12       |          | 63            |       | 8            |      | \$               |       | 89       | 88      |   | 7        |   | 308     | 307     |          | 38                           |

LEGEND: DS = Downstream, Dia = Diameter, IL = Invert Level, IL/s = Liters per second, MH = Manhole, NG = No Good. Popn = Population. PHF = Probable High Flow. Q = Quantity, US = Upsuram

| Judge                  |  | Š  | - 1.5  |   |  |  |  | , ,   | ∣ઇ∖   | 1  | 띩  | 5  | . !  | 힝  | 히  | 윙  | - 1  | ₩.   | 히                                      | - 1  | =1   | ĕΙ  | - 1  | $\sim 1$  | $\sim 1$   |  | 7 I  |  | F 1  | e i  | .T. 1                                  |
|------------------------|--|--|--|---|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|
|                        |  | ┰┼   |  | 2   |  | N. N.  | Ž  |   | New   |  | 4  | New  |  | _  | _  |  | _  | 충  |  | _  |  |   |  | - 1   | %<br>X   |  | Š  | _  | Š  | .Nc.   | N                                      |
| \$000<br>(%)           |  | 307%   | 2174   | 1731%   |  | 1705%  | 2500   | 2   | 246%  |  | 25%  | 159%   |  | 7084%  | 4808%  | 15856%   |  | 11067%   | 5239%                                  |  | 2297%  | 3449  | 2  | 10453%  | 12346%   | : .  | 2063%  |  | 34%  | 131%   | 26%                                    |
| Q2=P.H.P<br>in L/s     |  | 27.8   | ţ  | 5.3   |  | 4.0  | 12.7   | \   | 41.5  |  | 52.0   |  |  | 0.5  | 0.5  | 0.5  |  | 0.5  | 0.5                                    |  | 1.5  | 1.5   |  | 0.5   | Ş  |  | 2.5  |  | 49.5   |  | 49.5                                   |
| Contributi<br>ag Popa  |  | 5002   | ;  | 5   | ,  | 611  | 1217   | 1101  | 3986  |  | 4993   | 4993   |  | \$   | \$   | 49   |  | \$   | Q.                                     |  | 146  | 146   |  | \$  | 49   |  | 243  |  | 5284   | 5284   | 5284                                   |
| ) and germent          |  | New  | ;  | »S  |  | New  | Z.   | יאטא  | New   |  | Ŋ  | New  |  | ğ  | 용  | š  |  | Ř  | ğ                                      |  | ğ  | ŏ   |  | ă   | ŏ  | :  | š  |  | Š  | Nc€  | S                                      |
| 01/02                  |  | 312%   | 1  | 1866%   |  | 1705%  | 2670   | 0%/07   | 251%  |  | 26%  | 163%   |  | 7084%  | 4808%  | 15856%   |  | 1.067%   | 5239%                                  | ļ  | 2297%  | 3449%   |  | 10453%  | 2346%  | :  | 2063%  |  | 34%  | 134%   | 27%                                    |
| 72-P.H.F<br>in Us      |  | 27.4   | :  | 64  |  | 4.0  |  | 3   | 40.8  |  | 50.6   |  |  | 0.5  | 0.5  | 0.5  |  | 0.5  | 20                                     |  | 1.5  | 2.5   |  | 0.5   | 0.5  |  | 2.5  |  | 48.2   |  | 48.2                                   |
| ontributi<br>ng Pope   |  | 2632   | 1  | 474   |  | 611  | 494.   | 0621  | 3912  |  | 4853   | 4853   |  | 49   | 49   | 67   |  | 46   | 46                                     |  | 146  | 35  |  | 64  | 49   |  | 243  |  | 5144   | 5144   | 5144                                   |
|                        |  | New  |  | ₹<br>Ž  |  | Nex  | 2  | <u>≱</u>  | New   |  | NG.  | New  |  | Š  | ΟK   | χ  |  | οĸ   | ЖО                                     | :  | ĕ  | ă   |  | š   | ЖО   |  | οK   |  | NG   | New  | ŊĊ                                     |
| Q1/Q2<br>(%)           |  | 325%   | 1  | 2174%   |  | 1748%  | 2000   | 94.687  | 265%  |  | 27%  | 174%   |  | 7084%  | 4808%  | 2856%  |  | 1067%  | 5239%                                  |  | 2297%  | 3449%   |  | 0453%   | 2346%  | :::  | 2063%  |  | 33%  | 128%   | 26%                                    |
| 72-P.H.F<br>in L/s     |  | 26.3   | $\neg$   |   | _  | 6.2  | ;  | 22  | 38.6  |  | 47.5   |  |  | 0.5  | 0.5  | 0.5  |  | 0.5  | 0.5                                    |  | 1.5  | 1.5   |  | 0.5   | 0.5  | -  | 2.5  |  | 50.6   |  | 50.6                                   |
| Jonatributh            |  | 2527   | 1  | <del>\$</del>   |  | 986  | 1  | 1183  | 3710  |  | 4562   | 4562   |  | 49   | \$   | 49   |  | 49   | 49                                     |  | 146  | 146   | -  | 49  | 64   |  | 243  |  | 4853   | 4853   | 4853                                   |
| Ol =Cape<br>cley (L/s) |  | 85.4   |  | 92.2  |  | 108.5  | 7  | 35.6  | 102.2   |  | 13.0   | 82.6   |  | 36.2   | 24.5   | 80.9   |  | 56.5   | 26.7                                   |  | 34.9   | 52.5  |  | 53.4  | 63.0   | ·  | 52.2   |  | 16.6   | 64.9   | 13.0                                   |
| ž.                     |  | 8  |  | 8   |  | 8  |  | 82  | 300   |  | 52   | 300  |  | 150  | 87   | 150  |  | ङ  | 150                                    |  | 150  | 55.   |  | 150   | 150  |  | 150  |  | 150  | 82   | 150                                    |
|                        |  | 629  |  | 78.9  |  | 109.5  | -  | 8.1.  | 27.2  |  | 7.3  | 7.3  |  | 56.4   | 26.0   | 282.4  |  | 137.6  | 30.8                                   |  | .9.75  | 118,6   | ::   | 122.7   | 171.2  |  | 117.6  |  | 11.9   | 11.9   | 7.3                                    |
|                        |  | 140  |  | <u>Σ</u>  |  | 210  |  | 8   | 38  |  | 37   | 37   |  | 55   | 25   | 8  |  | 88   | 8                                      |  | .38  | 53  |  | 23  | 64   |  | 8  |  | 88   | 88   | 29                                     |
| ਜ<br>ਜ਼                |  | 9.4  |  | 45.00   |  | 45.00  | 1  | 8   | 14.85   |  | 14.58  | 14.58  | <del> </del>   | 35.57  | 8.48   | 25.90  | -  | 27.75  | 25.90                                  | -  | 23.90  | 20.46   |  | 28.85   | 20.46  | -  | 14.58  | •  | 13.89  | 13.89  | 13.40                                  |
| US IT                  |  | ⊢∔   |  | _   |  | -+   | -  |   | -   | ļ  | <b>↓</b>   | <del> </del>   | T  | <b>├</b>   | ╀  | 1  |  | ļ.,  | ٠.                                     |  |  |   |  | 1   | !  |  | <del> </del>   | -  | <del>-</del>   |  | +                                      |
|                        |  | 301  | +  |   |  | 302  | +  | $\dashv$  | +   | ╁  | ╁┈   | ╁  | T  | 82   | 1  | 0,8  | -  | 84   | 8                                      |  | 82   | 78  |  | 98  | 78   |  | ╁╴   |  | ۲  |  | 8                                      |
|                        |  | 305  |  | 305   |  | 303  |  | 302   | 301   | +-   | 73   |  |  | 83   | 28   | 28   |  | 88   | 2%                                     |  | 08   | \$  | -  | 83  | 8  | -  | 82   | -  | 27   | $\vdash$   | 12                                     |
| 9 1 1 4 7              | L Do U, Length in Gradient Dia la sens City (Lis) in Front In Lis (%) Judgement Constributi (22-P.H.F 0)/02 Judgement (70) Jud | DS-MH US LL DS IL Length in Gradient Die in mm Q1—Cupe Coerchout) Q2=P.H.F. Q1/Q2 Judgement Contributi) Q2=P.H.F. Q1/Q2 Judgement GR/P Q1/Q2 Judgement GP/P In L/S II DS IL Length in L/S (%) Judgement GP/P In L/S II DS III LS (%) Judgement GP/P In L/S II DS III LS (%) Judgement GP/P In L/S II DS III LS (%) Judgement GP/P In L/S III DS III LS (%) Judgement GP/P IN LS (%) Judgement GP/P IN LS (%) Judgement GP/P IN | DS MH US II. DS II. Length in Gradieni Die in man city (Lik) ing Popin in Lis (Th) ing Popin in Lik (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) ing Popin in Lis (Th) in Lis (T | DS MH US II. DS II. Length in Gradient Din in man Q1—Cape Contribut! Q2—F.H.F. Q1/Q2 Judgement Contribut! Q2—F.H.F. Q1/Q2 Judgement agropn in L/s (%) Judgement agropn in | DS MH US II. DS II. Langth in Gradient Desiran and Q1-Capt Contribut! Q2-F.H.F Q1/Q2 Judgement of Pop in In Lis (3.6) In Long Pop in Lis (3.6) In Li | DS-MH US IL DS IL Langth in Gradieni Dia in mm city (Lth) ng Popn in Lts (%) Judgement ng Popn in Lts ( | DS-MH US II. DS II. Langth in Gradient Die is man Q1-Capt Contribut! Q2-F.H.F Q1/Q2 Judgement   Q2-F.H.F Q1/Q2   Judgement   Q2-F.H. | DS-MH US IL DS IL Langth in Gradieni Die in ann Ol-Cape Contribuil Q2=7.HJ Q1/Q2 Judgement OZ=7.HJ Q1/Q2 Judgement ag Pope in Lis (376) Judgement ag Pope in Lis (376) Judgement ag Pope in Lis (376) Judgement ag Pope in Lis (376) S3.S0 dd. Ol 140 67.9 200 85.4 25.27 26.3 32.576 New 2632 27.4 31.276 New 2669 27.8 30.2 66.00 d5.00 d5.00 190 78.9 200 92.2 d07 d2 2174% New d71 d4.9 186676 New 511 5.3 32.5 30.2 68.00 d5.00 d5.00 190.5 200 108.5 596 6.2 1748% New 611 6.4 170556 New 611 6.4 37.7 37.7 37.7 37.7 37.7 37.7 37.7 37 | DS-MH US II. DS II. Langth in Gradient Die is man Q1-Capt Concribed! Q2-F.H.F Q1/Q2 Judgement agroom in Langth in Langth in Capt Concribed! Q2-F.H.F Q1/Q2 In Langth in Capt Concribed! Q2-F.H.F Q1/Q2 In Langth in Capt Concribed! Q2-F.H.F Q1/Q2 In Langth in | DS.MH US IL DS IL Langth in Credition Oil-Cape Countribuil O22-FHJ O1/02 Judgement agreement agr | DS.MH US IL DS UL Length in Gradient Gird, Clays Concribudi Open-HJ. Q10/2 Judgement Gradient | DS.MH US LL DS UL Longth in Condensity Desiration Operation Operat | DS-NH US LL DS UL LIMIGN III Graellen III Die la man dig (Lub) recorded Conscitued Constitued Const | DS.NH US II. DS II. Longth in Crediting Operating Operat | DS.MH US II DS II LANGED IN Cradion   On-Cappe Countribud Quantific (75)   Langement   DS-NH US LL DS LL Longth in Graduent Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vi) 2 Judgess Contributi Opp-THJ (vii)   | DS-NH US L. DS-U Longth in Condent 101—101 Data Internation Control of the condent of the conden | DS-NH US LL DS LL (angle) in Gradient Gradient (190 Jan.) But in min dig (Lt), in Chapte in Lts (NF) | DS.M. U.S. L. DS. L. Langla III. Goods | DS-NM LS II. DS II. Long-th ii. Craptor   Drie in min.   Qi-Cape Counch-Mid Oz-Mid   Grap   In LA   Grap   In L | DS-NHH NS LL DS LL Langell III Graduen   Data Langell III   Chica   Data La | DS-54H UNIT DS-14   March III   D5.5MH UNIT D5. UL Margh in Creations Data in an alter (Loc) Margh in Loc) (RS) Data in an alter (Loc) Margh in Loc) (RS) Data in Loc) (RS | DS-NAM (N. M. Dr. M. Lange) in Contracting Concentral Contraction | DS. MAI         U.S. LL         DS. M.         Long District         Control Action         Control Action <t< td=""><td>DS NAN (S. L. Br. L. Bright) in Grandon (Application Controlled Carbotton) (Application Carbotton) (Ap</td><td>D. SAMP         U. Br. B.         Longitus In Grandows         Description Operation In Control of Contr</td><td>DS 504         US B.         De D.         Long Dis Graphent (Orange In Cartenant) Operators (Orange In Cart</td><td>DS 543 U.S L. D. D. D. L. Langla In Graphent Orders and Agricula In Captured Capture</td><td>DS 501         US 12         DR 12         Longla In Company         Date of Line In Company         Out-Company         Out-Company</td><td>  1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</td></t<> | DS NAN (S. L. Br. L. Bright) in Grandon (Application Controlled Carbotton) (Application Carbotton) (Ap | D. SAMP         U. Br. B.         Longitus In Grandows         Description Operation In Control of Contr | DS 504         US B.         De D.         Long Dis Graphent (Orange In Cartenant) Operators (Orange In Cart | DS 543 U.S L. D. D. D. L. Langla In Graphent Orders and Agricula In Captured Capture | DS 501         US 12         DR 12         Longla In Company         Date of Line In Company         Out-Company         Out-Company | 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, |

LEGEND: DS = Downstream, Dia = Diameter, IL = Invert Level, Lis = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

|                        |                                    |  |                |            | Т          |   |       | $\overline{}$ |       | т. |       |   | - [   | 7 | - T      | т |       | ~ |          | _1               |       |                  | - 1 | - 1   | ŀ     | ı     |       | - 1        |       | - i   | - 1 |       |  |
|------------------------|------------------------------------|--|----------------|------------|------------|---|-------|---------------|-------|----|-------|---|-------|---|----------|---|-------|---|----------|------------------|-------|------------------|-----|-------|-------|-------|-------|------------|-------|-------|-----|-------|--|
| v.<br>                 |                                    | Judystem                               | Š              | ş          | Ne<br>S    |   | 췽     | ă             | ğ     |    | ğ     | i | š     |   | ă        | ì | š     |   | Š        | ă                | ð     | ğ                |     | _1    | 췽     | ă     |       | _          |       | ă     |     | ఠ     |  |
| Pipe adequacy for 2015 |                                    |  | 103%           | 25%        | 156%       |   | 4775% | 7492%         | 2228% |    | 5213% | 2 | 2121% |   | 2120%    | 1 | 1302% |   | 6829%    | 7188%            | 865%  | 492%             |     | 2405% | 3902% | 2047% | 1099% | 1009<br>8% | 2677% | 2423% |     | 624%  |  |
| adequa                 |                                    | 02-P.H.Y<br>in L/s                     |                | 50.3       |            |   | 8.0   | 8.0           | 0.8   |    | 8.0   |   | 2.5   |   | 8.0      |   | 4.2   |   | 0.8      | 80               | 5.9   | 5.9              |     | 1.4   | ₹     | 4.    | 2.3   | 2.3        | 2.3   | 23    |     | 0.6   |  |
| Ę                      |                                    | Contributi<br>ng Popu                  | 5284           | 5365       | 5365       |   | 81    | 128           | 81    |    | 128   |   | 243   |   | <u>~</u> |   | ģ.    |   | <b>3</b> | 25               | 267   | 267              |     | 139   | 139   | 139   | 220   | 23         | 220   | 220   |     | 898   |  |
| F.                     |                                    | ) Indexed and a second                 | New            | NG         | New        |   | ğ     | š             | Š     |    | ğ     |   | ğ     |   | ğ        |   | ĕ     |   | ğ        | ă                | ĕ     | Ř                |     | ğ     | οĶ    | ğ     | οĶ    | ŏ          | OK    | ΟK    |     | Ж     |  |
| Pine adequacy for 2005 |                                    | Q1/Q2<br>(%)                           | 105%           | 25%        | 160%       |   | 4775% | 7492%         | 2228% |    | 5213% |   | 2121% |   | 2120%    |   | 1302% |   | 6829%    | 7188%            | 865%  | 492%             |     | 2571% | 4172% | 2188% | 1146% | 1052%      | 2791% | 2526% |     | 630%  |  |
| e adeouac              | 1                                  | O2-P.H.F<br>in L/s                     |                | 49.0       |            |   | 8.0   | 8.0           | 8.0   |    | 0.8   |   | 2.5   |   | 8.0      |   | 4.5   |   | 8.0      | 0.8              | 5.9   | 5.9              |     | 1.4   | 1.4   | 1.4   | 2.2   | 2.2        | 2.2   | 2.2   |     | 63    |  |
| ž                      |                                    | Concributi Q2=P.H.F.<br>ng Popn in L/s | \$1.8<br>4.8   | 5225       | 5225       |   | 81    | 81            | 81    | Ì  | 28    |   | 243   |   | 81       |   | \$    |   | 81       | 81               | 267   | 295              |     | 130   | 130   | 130   | 211   | 112        | 211   | 112   |     | 829   |  |
|                        |                                    | Jodgement                              | No.            | SZ         | New<br>New |   | ×     | ok            | ă     |    | ğ     |   | ĕ     |   | ΟĶ       |   | ğ     |   | OK       | οχ               | ă     | ğ                |     | ОĶ    | OK    | OK    | ХО    | οK         | ŏ     | ОК    |     | ğ     |  |
| 10g 10g                | Pripe adequatry for 1995           | 03/02                                  | 101%           | 24%        | 152%       |   | 4775% | 7492%         | 2228% |    | 5213% |   | 2121% |   | 2120%    |   | 1302% |   | 6829%    | 7188%            | 865%  | 492%             |     | 2833% | 4597% | 2411% | 1215% | 1115%      | 2959% | 2678% |     | 639%  |  |
| on oo bu               | - adequal                          | O2#ACO<br>in Lie                       |                | 51.4       |            |   | 8.0   | 8.0           | 0.8   |    | 9.0   |   | 2.5   |   | 8.0      |   | 4.2   |   | 8.0      | 8.0              | 83    | 5.9              |     | 112   | 1,2   | 1.2   | 2.1   | 2.1        | 2.1   | 2.1   |     | 8.8   |  |
| Ž                      | 12                                 | Contribution of Popularies             | 4853           | 4934       | 4934       |   | 81    | 81            | 81    |    | 81    |   | 243   |   | 81       |   | 405   |   | 81       | 1 <del>8</del> 8 | 567   | 267              |     | 118   | 118   | 118   | 138   | <u>\$</u>  | 86    | 81    |     | 847   |  |
| 1                      | pecity                             | Q1=Cape<br>city (L/s)                  | 89             | 12.3       | 78.3       |   | 6.03  | 63.2          | 18.8  |    | 0.4   |   | 53.7  |   | 17.9     |   | 6.48  |   | 57.6     | 9.09             | 51.1  | 29.0             |     | 34.8  | \$65  | 29.6  | 25.2  | 3.1        | 61.3  | 55.5  |     | 56.4  |  |
|                        | ik and C                           | Dis in mm                              | S <sub>2</sub> | 150        | 8          |   | 82    | S.            | 150   |    | 150   |   | 150   |   | 150      |   | 150   |   | 150      | 150              | 150   | 150              |     | 150   | 150   | 150   | 150   | 55         | 150   | 35    |     | 150   |  |
|                        | Existing Pipe Details and Capacity | Cradient 1                             | 13             | 4,6        | 99         |   | 0.67  | 1723          | 15.2  |    | 83.4  |   | 124.2 |   | 13.8     |   | 130.0 |   | 143.2    | 158.6            | 112.6 | 36,3             |     | 52.3  | 137.6 | 37.9  | 27.3  | 23.0       | 162.2 | 132.9 |     | 137.2 |  |
| Kila Kila              | Existing                           | 25 E                                   | 5              | 2          | ;   a      |   | 7     | 8             | 2     |    | 38    |   | 56    |   | S        |   | 18    |   | 19       | 21               | 54    | 101              |     | 4     | 38    | 14    | g     | 8          | \$    | 8     |     | 32    |  |
| ſ                      | <u> </u>                           | DS 3E                                  | 85             | 8          | 8 5        | 2 | 43.62 | 35.80         | 36.58 |    | 36.58 |   | 33.35 |   | 33.35    |   | 31.01 |   | 34.34    | 31.01            | 26.17 | 22.50            |     | 48.09 | 42.86 | 42.33 | 41.51 | 39.62      | 31.67 | 22.50 |     | 18.11 |  |
|                        | MHH                                | us ut                                  | 13.80          | 97.51      | 1 5        | 2 | 8     | 43.62         | 8,8   |    | 39.75 |   | 36.58 |   | 8,8      |   | 33.35 |   | 37.08    | 8                | 31.01 | 26.17            |     | 50.39 | 48.09 | 42.86 | 42.33 | 41.51      | 39.62 | 31.67 |     | 22.50 |  |
| ered                   | Line                               | DS MH                                  | 1              | ę          | <b>\$</b>  | T | T.    | +             | +     |    | 83    |   | 23    |   | 8        |   | 59    |   | 8        | 8                | 8     | ş                | 3   | 86    | SS    | 3.    | 53    | 22         | 53    | Ş     | 3   | 64    |  |
| Area Covered           | Sewer Line                         | US MH<br>No                            | 1              | \<br> <br> | 2          | 1 | 1,5   | 3 3           | 3 2   |    | 120   |   | ន     |   | 88       |   | 3     |   | 130      | 9                | 3     | \ \( \tilde{\pi} | ·   | 57    | \$6   | :   % | 3     | : 5        | \$ 5  | ;     | 10  | 8     |  |

LEGEND: DS \* Downstream, Dia \* Diameter, IL. = Invert Level, L/s = Liters per second, MH \* Manhole, NG = No Good. Popm = Population, PHF = Probable High Blow, Q = Quantity, US = Upstream

| S  | Judgement                              | ğ     | ĕ     | NG    | New   | ĕ     | <u>₹</u> | New   | ŏ     | OK    | ŏ     |   | ğ      | Ø.    | ΟĶ    | Ŋ     | New   | OK    | ğ     |     | Š     | ğ             | ×     | ă     | ğ     | ŏ        |
|--|--|-------|-------|-------|-------|-------|----------|-------|-------|-------|-------|---|--------|-------|-------|-------|-------|-------|-------|-----|-------|---------------|-------|-------|-------|----------|
| Pipe adequacy for 2015                         | Q1/Q2<br>(%)                           | 3456% | 473%  | 46%   | 181%  | 4602% | 420%     | 295%  | 426%  | 411%  | 6261% |   | 318%   | 267%  | 309%  | 78%   | .%691 | 281%  | 193%  | :   | 1042% | 2053%         | 4560% | 7910% | 6323% | <br>343% |
| pe adequa                                      | Contribud Q2=P.H.F<br>ng Popn in L/s   | 8.0   | 10.7  | 50.7  |       | 7.    | 7.3      | 8.8   | 10.2  | 11.9  | 8.0   |   | 14,3   | 14.3  | 14.3  | 15.2  |       | 15.2  | 15.2  |     | 0.8   | 0.8           | 8.0   | 8.0   | 80    | 16.8     |
| Ĕ  | Contributi<br>ng Pepn                  | 81    | 1030  | 6476  | 6476  | 139   | 702      | 841   | . 086 | 1138  | 81    |   | 1377   | 1377  | 1377  | 1458  | 1458  | 1458  | 1458  |     | 81    | 81            | 18.   | 81    | - 81  | 1612     |
| Pipe adequacy for 2005                         | Jacksteine                             | క     | ğ     | NC    | New   | š     | New      | New   | ХО    | жо    | ОК    | ٠ | ŏ      | ΟK    | ð     | NG    | New   | ŏ     | ΟK    |     | οĸ    | š             | OK    | OK    | ΟK    | οĸ       |
|  | 01/02<br>(%)                           | 3456% | 477%  | 47%   | 185%  | 4921% | 420%     | 298%  | 434%  | 417%  | %1979 |   | 322%   | 271%  | 313%  | 79%   | 171%  | 284%  | 196%  |     | 1042% | 2053%         | 4560% | 7910% | 6323% | 347%     |
| nbape ad                                       | Contribudi Q24P.H.F.<br>ng Popn in L/s | 8.0   | 10.6  | 59.3  |       | 4.[   | 7.3      | 8.7   | 10.0  | 11.7  | 0.8   |   | 14.2   | 14.2  | 14.2  | 15.0  |       | 15.0  | 15.0  |     | 8.0   | 8.0           | 9.0   | 8.0   | 8.0   | 16.6     |
| ε  |  | 128   | 1021  | 6327  | 6327  | 021   | 702      | 833   | 696   | 1121  | 81    |   | 1360   | 1360  | 1360  | 1441  | 1441  | 1441  | 1441  |     | 81    | i&            | 81    | 81    | 81    | 1595     |
| S64  | Judgement                              | ĕ     | ă     | Š     | New   | ŏ     | New      | New   | ЖО    | ĕ     | ŏ     |   | OK     | ХО    | š     | OK    | New   | OK    | ΟK    |     | οĸ    | š             | OK    | ŏ     | χ     | Š        |
| Pipe adequacy for 1995                         | 61/QZ<br>(%)                           | 3456% | 483%  | 50%   | 194%  | 5421% | 590%     | 403%  | 269%  | 563%  | 6261% |   | 435%   | 365%  | 422%  | 105%  | 226%  | 376%  | 259%  |     | 1042% | 2053%         | 4560% | 7910% | 6323% | 445%     |
| mbapa ac                                       | Contributi Q2=P.H.F                    | 0.8   | 10.5  | 56.5  |       | 1.2   | 5.2      | 6.4   | 7.6   | 8.6   | 8.0   |   | 10.5   | 10.5  | 10.5  | 11.3  |       | 11.3  | 11.3  | :   | 8.0   | 8.0           | 8.0   | 8.0   | 8.0   | 12.9     |
| Ā  | Contributi<br>ng Pepn                  | 18    | 1000  | 6024  | 6024  | 118   | 499      | 919   | 734   | 830   | 81    |   | 1001   | 1001  | 1007  | 1088  | 1088  | 1088  | 1088  |     | 81    | 28            | 81    | 81    | 81    | 1242     |
| apacity  | Ol=Ceps<br>city (L/k)                  | 29.2  | 50.8  | 28.1  | 109.8 | 9.99  | 30.7     | 25.9  | 43.5  | 48.7  | 52.8  |   | 45.6   | 38.3  | £.3   | 11.9  | 25.7  | 42.7  | 29.4  | -   | 8.8   | 17.3          | 38.5  | 66.7  | 53.4  | 57.6     |
| ila Kila<br>Existing Pipe Details and Capacity | Die in mm                              | 150   | 150   | 150   | 250   | 150   | 200      | 200   | 150   | 150   | 150   |   | 150    | 150   | 150   | 150   | 200   | 150   | 150   |     | 150   | 051           | 82    | 150   | 150   | 150      |
| 7. Pipe Det                                    | Gradient<br>(0/00)                     | 36.7  | 111.1 | ¥.    | 34.1  | 191,4 | 8.8      | 6.2   | 81.6  | 102.3 | 120.3 |   | 9.68   | 63.3  | 84.6  | 6.1   | 6.1   | 78.4  | 37.2  | :   | 3.3   | 12.9          | 63.8  | 192.1 | 122.7 | 143.1    |
| Kila Kila<br>Existing                          | Length in                              | 8     | 46    | 3     | 4     | 28    | 80       | 220   | 23    | 9     | 31    |   | 51     | 23    | 81    | 88    | 88    | \$    | 43    | :   | 33    | 88            | 55    | 39    | 33    | 13       |
| MHIL   | DS IL                                  | 18.11 | 13.00 | 2.50  | 11.50 | 44.63 | 46.00    | 44.63 | 42.59 | 35.53 | 35.53 |   | 30.96  | 27.35 | 20.50 | 19.98 | 19.98 | 14.96 | 13.36 | : ' | 29.29 | 28.41         | 24.90 | 17.41 | 13.36 | 11.50    |
| M.   | SS EE                                  | 21.74 | 50    | 13.00 | 13.00 | 49.99 | 46.70    | 46.00 | 44.63 | 42.59 | 39.26 |   | 35.53. | 30.96 | 27.35 | 20.50 | 20.50 |       | 14.96 |     | 29.40 | 29.29         | 28.41 | 24.90 | 17.41 | 13.36    |
| vered  | DS MH                                  | \$    | 85    | K.    |       | 6     | 401      | 40    | 88    | 38    | 38    |   | 37     | 38    | 35    | 32    |       | 33    | 32    |     | 46    | <del>\$</del> | 4     | 43    | 32    | ጸ        |
| Area Covered<br>Sewer Line                     | CS MH                                  | \$    | 8     | 37    |       | 41    | 402      | 401   | 4     | 39    | 42    |   | 38     | 33    | %     | 35    |       | 34    | 33    |     | 47    | 46            | 45    | 4     | 43    | 32       |

LEGEND: DS \* Downstream, Dia \* Diameter, IL = Invert Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

|                        |                                    | Judgement                              |       | ŽŠ.   | New   |   | ğ     | ğ     | ă     | ă     | ğ     |   | ఠ        |   | ğ     | Š        | ğ     | ĕ     | ğ     |   | ĕ     | ð      | ğ     | 히                  | Š     | ĕ        |
|------------------------|------------------------------------|--|-------|-------|-------|---|-------|-------|-------|-------|-------|---|----------|---|-------|----------|-------|-------|-------|---|-------|--------|-------|--------------------|-------|----------|
| v for 201              |                                    | 20/10<br>20/10                         |       |       | 405%  | Ī | 833%  | 1273% | 478%  | 822%  | 1051% |   | 303%     | · | 684%  | <br>237% | 3441% | 2776% | 1471% |   | 180%  | 6160%  | 2073% | %0 <del>9</del> 09 | 2079% | 121%     |
| Pine adequacy for 2015 |                                    | O2eP.H.F<br>in L/s                     | 222.2 |       | 222.2 |   | 1.6   | 1.7   | 9:    | 5.0   | 5.0   |   | .3<br>.3 |   | 1.6   | 11.5     | 9:    | 1,6   | 9.1   |   | 14.8  | 9:     | 1.6   | 1.6                | 9.1   | 18.1     |
| ř                      |                                    | Contribudi                             | 28436 | 28436 | 28436 |   | 158   | 35    | 82    | 476   | 476   |   | 792      |   | 22    | 25       | 158   | 158   | 158   |   | 1420  | 158    | 158   | 158                | 158   | 1736     |
| ٧                      | 2                                  | Judgensent                             |       | New   | Nes   |   | ğ     | ğ     | ğ     | ŏ     | Š     |   | OK       |   | ğ     | <br>ŏ    | ХO    | ĕ     | ŏ     |   | ğ     | ğ      | ĕ     | OK                 | ŏ     | ŏ        |
| 100 mg                 | Cy 101 40                          | Q1/Q2<br>(%)                           |       |       | 415%  |   | 833%  | 1273% | 478%  | 822%  | 1051% |   | 303%     |   | %856  | 246%     | 3441% | 2776% | 1471% |   | 185%  | 6160%  | 2073% | 6060%              | 2079% | 125%     |
|                        | ripe adequacy for 2005             | 02-7-H.F                               | 216.6 |       | 216.6 |   | 1.6   | 1.7   | 1.6   | 5.0   | 5.0   |   | 8.3      |   | 1.1   | 11.0     | 1.6   | 1.6   | 1.6   |   | 14.3  | 1.6    | 1.6   | 1.6                | 1.6   | 17.6     |
| Ž                      | Ž.                                 | Contribute<br>ng Popa                  | 27722 | 27722 | 27722 |   | 158   | 160   | 158   | 476   | 476   |   | 26,      |   | 110   | 1000     | 158   | 158   | 158   |   | 1376  | 158    | 158   | 158                | 158   | <br>1692 |
|                        | 6                                  | Judgement                              |       | New   | New   |   | ŏ     | ΟK    | ğ     | ХО    | ОК    |   | ğ        |   | ğ     | ă        | ş     | š     | Š     |   | ջ     | Š      | OK    | ð                  | ğ     | ğ        |
|                        | cy for 1%                          | 01/02<br>(%)                           |       |       | 512%  |   | 1372% | 2214% | 786%  | 1379% | %1921 |   | 504%     |   | 1646% | 411%     | 5663% | 4569% | 2421% |   | 308%  | 10138% | 3412% | 9974%              | 3422% | 207%     |
|                        | Pipe adequacy for 1995             | 92-7-H.F                               | 175.7 |       | 175.7 |   | 1.0   | 1.0   | 1.0   | 3.0   | 3.0   |   | 5.0      |   | 2'0   | 9.9      | 1,0   | 0.1   | 1.0   |   | 8.6   | 0,1    | 0.7   | 0.1                | 1.0   | 10.6     |
| ļ                      |                                    | Contributi Q2=P.H.F.<br>ng Popn in L/s | 22488 | 22488 | 22488 |   | 8     | 92    | 96    | 284   | 284   |   | 476      |   | ક     | 969      | 8     | 8     | 8     |   | 828   | 8      | %     | 8                  | 8     | 1020     |
|                        | pacity                             | Q1=Capa<br>eley (Lis)                  |       |       | 899.3 |   | 13.7  | 21.2  | 7.9   | 40.8  | 52.1  |   | 25.0     |   | 11.0  | 27.2     | 56.6  | 45.7  | 24.2  |   | 26.6  | 101.4  | 34.1  | 8,                 | 34.2  | 22.0     |
|                        | Existing Pipe Details and Capacity | Die in ram                             | 150   | 88    | 8     |   | 150   | 150   | 150   | 150   | 150   |   | 150      |   | 150   | 150      | 150   | 150   | 150   | 1 | 150   | 150    | 8     | 85.                | 150   | 150      |
|                        | Pive Det                           | Gradient<br>(9/00)                     | 80.8  | 8.04  | 21.5  |   | 8.1   | 19.4  | 2.7   | 711.7 | 117.0 | - | 26.9     |   | 5.2   | 31.9     | 138.3 | 0.0   | 25.3  |   | 30,4  | 443.1  | \$0.2 | 428.9              | 50.5  | 20.8     |
| Kila Kila              | Existing                           | Length in                              | 230   | 330   | 358   |   | S     | 8     | 15    | 41    | 2     |   | 52       |   | 12    | 38       | 4     | 2     | 61    |   | 46    | 12     | ક્    | 2                  | 20    | 76       |
|                        | 11                                 | TI SQ                                  | 20.88 | 20.88 | 13.20 |   | 20.45 | 24.56 | 24.56 | 21.62 | 20.45 |   | 19.05    |   | 19.05 | 18.22    | 20,05 | 18.70 | 18.22 |   | 16.82 | 28.59  | 25.98 | 17.83              | 16.82 | 15.24    |
|                        | MH IL                              | ns it                                  | 1.50  | 1.50  | 20.88 |   | 20.88 | 25.88 | 24.60 | 24.56 | 21.62 |   | 20.45    |   | 19.45 | 19.05    | 25.72 | 20.05 | 18.70 |   | 18.22 | 51.19  | 28.59 | 25.98              | 17.83 | 16.82    |
| vered                  | Line                               | DS MH<br>No                            | ū     |       | 3     |   | ន     | 2.4   | 24    | 23    | 8     |   | 215      |   | 215   | 21       | 52    | 21A   | 12    |   | ಜ     | 27     | 97    | 20 <b>A</b>        | ន     | 61       |
| Area Covered           | Sewer Line                         | US MH<br>No                            | ×     |       | ā     |   | 3.    | 25    | \     | 24    | 23    |   | 22       |   | 216   | 215      | 8     | 82    | 21.A  |   | 12    | 28     | 23    | 26                 | ğ     | 20       |

LECEND: DS = Downstream, Dia = Diameter, IL = Invert Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

| OK 1736 18.1 110%   June Oza-H.F   O1/OZ   Oza-H.F   Oz | Area Covered | 2       | Ī     | Kila Kila | Pinc Deta       | aile and C | Specify | P.      | e scienus | ov for 195   | S.       | Pio                   | c adequa     | Pipe adequacy for 2005 | 95      | , K                   | s adequa           | Pipe adequacy for 2015 | 5          |
|--|--------------|---------|-------|-----------|-----------------|------------|---------|---------|-----------|--------------|----------|-----------------------|--------------|------------------------|---------|-----------------------|--------------------|------------------------|------------|
| 13-06   10.5   17.0   15.0   15.8   10.20   10.6   197%   New   1692   17.6   11.35   New   1736   18.1   11.05     13.00   5   52.0   20.0   74.8   10.20   10.6   New   1692   17.6   42.4%   New   1736   18.1   4.14%     13.00   5   4.00   6.00   128.0   23.50   183.7   61.6%   New   29.41   22.88   53.4%   New   20.12   23.57   45.0%     13.10   23.2   6.0   113.10   23.58   183.7   61.6%   New   29.41   22.88   53.4%   New   20.12   23.57   45.0%     13.20   2.00   15.0   23.2   6.4   0.7   23.86%   OK   110   1.1   22.86%   OK   15.4   1.6   20.84%     13.20   2.20   15.0   23.2   6.4   0.7   23.86%   OK   110   1.1   22.86%   OK   15.4   1.6   20.84%     13.20   2.21   15.0   23.2   6.4   0.7   23.86%   OK   110   1.1   22.86%   OK   15.4   1.6   20.84%     13.10   2.22   15.0   22.7   19.2   2.0   113.5%   OK   110   1.1   22.85%   OK   15.4   1.6   20.84%     13.11   10.2   13.2   15.0   15.3   6.4   0.7   23.86%   OK   110   1.1   22.85%   OK   15.4   1.6   20.85%     14.11   0.2   1.2   1.2   2.2   1.2   2   | :   d        | : h     | 3     | Leogth in | Gradient (0/00) | Dis is mm  | 1. 3    | Concrit | 02=P.H.F  | Q1/Q2<br>(%) | dycenent | Contributi<br>ng Popa | 9.4.9.4.9. m | Q1/Q2<br>(%)           | dgement | Centributi<br>ng Popa | O2mP.H.F<br>in L/s | (%)<br>20/10           | Judgement  |
| 13.00   5   52.00   74.8   1020   10.6   704%   New   1692   17.6   424%   New   1736   18.1   414%   13.00   5   52.00   74.8   1020   10.6   704%   New   29414   229.8   534%   New   29475   17.6   424%   New   29475   17.6   424%   New   29476   New   29414   229.8   64276   New   29414   229.8   Control of the con   | S            | 12      | 13.46 | 105       | 17.0            | 150        | 19.8    | 1020    | 10.6      | %2481        | ğ        | 1692                  | 17.6         | 113%                   | ĕ       | 1736                  | 18.1               | 110%                   | ğ          |
| 13.0   5   52.0   200   74.8   1000   10.6   70.45   New   1692   17.6   42.45   New   1736   18.1   41.45   13.   | Į            | 1       |       | <u> </u>  |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 13.00   5   4.00   6.00   1228.0   23508   183.7   6.69%   New   29414   229.8   529.%   New   20172   235.7   235.7   235.8   | 5            | 4       | 13.20 | ~         | 52.0            | 200        | 74,8    | 1020    | 10.6      | 704%         | New      | 1692                  | 17.6         | 424%                   | Se      | 1736                  | 18.1               | 414%                   | ×SK        |
| 13.00   5 4.00   6.00   12280   2350   133.7   6.05%   New   2941   225.8   534%   New   30172   235.7   480%   35.0   35.0   6.00   11310   23508   133.7   6.05%   10.0   11.1   10.0   11.1   2018%   OK   1.9   1.6   14.1%   14.1%   12.0   13.0   | : [          |         |       |           |                 |            |         | _       |           |              |          |                       |              |                        |         |                       |                    | 1                      | ;          |
| 13.50   230   33.9   600   11310   23508   183.7   616%   New   29414   229.8   492%   New   30172   235.7   480%   101.19   11.1   1   | ≌            | 8       | 13.00 | 5         | 40.0            | 909        | 1228.0  | 23508   | 183.7     | 659%         | New      | 29414                 | 229.8        | 534%                   | Neg     | 30172                 | 235.7              | 521%                   | Sex        |
| 14.72   89   49.2   150   22.0   64   0.7   3298%   OK   110   111   1919%   OK   149   16   1417%   OK   149   16   16   1417%   OK   141   OX   OX   OX   OX   OX   OX   OX   O   |              | 8       | 3.50  | 280       | 33.9            | 900        | 1131.0  |         | 183.7     | 2919         | New      | 29414                 | 229.8        | 492%                   | New     | 30172                 | 235.7              | 480%                   | New<br>New |
| 10.10   71   20.8   150   22.0   64   0.7   3298%   OK   110   111   1919%   OK   149   16   1417%     10.20   42   640   150   33.4   64   0.7   5015%   OK   110   111   2018%   OK   154   16   2026%     10.10   42   44.7   150   32.2   64   0.7   4226%   OK   110   111   2056%   OK   154   16   2006%     10.10   45   44.7   150   22.7   192   2.0   1135%   OK   110   111   2056%   OK   154   16   2006%     10.10   45   44.7   150   22.7   192   2.0   1135%   OK   110   111   2456%   OK   154   16   2006%     10.11   10.2   12.3   150   2.2   12.2   2.0   1135%   OK   110   111   2456%   OK   154   16   2006%     10.11   10.2   12.3   150   16.9   64   0.7   2526%   OK   110   111   2456%   OK   154   16   2659%     10.12   38   68.2   150   39.8   64   0.7   2526%   OK   110   111   3470%   OK   154   16   2659%     10.12   38   68.2   150   39.8   64   0.7   2526%   OK   110   111   3470%   OK   154   16   2659%     10.12   38   68.2   150   39.8   64   0.7   2526%   OK   110   111   3470%   OK   154   16   2659%     10.13   17.4   17.5   15.0   2.4   6.0   3387%   OK   113   1.2   2064%   OK   154   1.6   1207%     10.13   17.4   17.5   15.0   2.4   6.0   3387%   OK   113   1.2   2064%   OK   154   1.6   1207%     10.13   17.4   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5     10.14   1.15   |              |         |       |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 13.20         4.2         1.50         33.4         6.4         0.7         5015%         OK         110         1.1         2918%         OK         154         1.6         2034%           12.20         4.2         6.0         13.7         54.4         0.7         5596%         OK         110         1.1         2556%         OK         156         1.6         23.25%           10.19         4.5         44.7         150         22.2         64         0.7         4528%         OK         110         1.1         23.5%         OK         156         1.6         1.6         23.5%           15.36         3.4         3.41         150         22.7         192         2.0         1135%         OK         110         1.1         245%         OK         45         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8         4.7%         4.8   | I            | 1.67    | 10.19 | 12        | 20.8            | 55         | 22.0    | R       | 0.7       | 3298%        | ΟK       | 110                   | 1.1          | 26161                  | ğ       | 149                   | 1.6                | 1417%                  | ğ          |
| 14.72         89         48.2         150         33.4         64         0.7         5015%         OK         110         1.1         29.8%         OK         180         1.3         64         0.7         5015%         OK         110         1.1         225%         OK         180         1.1         225%         OK         180         1.1         235%         OK         180         1.1         235%         OK         180         180         0.7         180         0.7         180         OK         110         1.1         235%         OK         180         0.7         4.8         4.7%         0.0         0.0         180         0.0         0.0         1.2         1.2         0.0         0.0         1.2         1.2         0.0         0.0         1.2         0.0         0.0         1.2         0.0         0.0         1.2         0.0  |              | 1       |       |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 12.20   42   60.0   150   37.3   64   0.7   5396%   OK   110   1.1   2265%   OK   154   1.6   2225%   OK   110   1.1   2265%   OK   154   1.6   2006%   OK   1.6   1.6   2006%   OK   1.6   1.6   2006%   OK   1.6   1.6   2006%   OK   | 1            | 10%     | 14.72 | 8         | 48.2            | 83         | 33.4    | इ       |           | 5015%        | š        | 110                   | 1.1          | 2918%                  |         | 154                   | 1.6                | 2084%                  | ŏ          |
| 8.39         8.1         2.2.         150         3.2.         64         0.7         4828%         0.K         110         1.1         2809%         OK         154         1.6         2006%           8.39         8.1         2.2.         150         2.2.         192         2.0         1135%         OK         3.4         660%         OK         457         4.8         4.7%           15.36         3.4         3.4         150         2.2.         192         2.0         1135%         OK         110         1.1         2455%         OK         154         4.8         4.7%           14.11         102         1.2.         150         6.4         0.7         2529%         OK         110         1.1         1471%         OK         1.6         1.6         1.6         1.7         1474%         OK         1.1         1471%         OK         1.6         1.6         1.6         1.6         1.6         1.6         1.7         2529%         OK         1.1         1.1         1471%         OK         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.6         1.1         1.1 <td>1 -</td> <td>4.72</td> <td>12.20</td> <td>53</td> <td>0.09</td> <td>150</td> <td>37.3</td> <td>3</td> <td></td> <td>5596%</td> <td></td> <td>110</td> <td>1.1</td> <td>3256%</td> <td>ΟĶ</td> <td>154</td> <td>1.6</td> <td>2325%</td> <td>ŏ</td>   | 1 -          | 4.72    | 12.20 | 53        | 0.09            | 150        | 37.3    | 3       |           | 5596%        |          | 110                   | 1.1          | 3256%                  | ΟĶ      | 154                   | 1.6                | 2325%                  | ŏ          |
| 8.39         81         22.2         150         22.7         192         2.0         1135%         OK         330         3.4         660%         OK         457         4.8         477%           15.36         34         341         150         22.7         192         2.0         1135%         OK         110         1.1         2455%         OK         154         1.6         1754%           14.11         102         12.3         150         16.9         64         0.7         2529%         OK         110         1.1         1411%         OK         154         1.6         1051%           14.11         102         12.3         150         64         0.7         2529%         OK         110         1.1         1471%         OK         154         1.6         1051%           14.11         62         150         43.3         64         0.7         2529%         OK         110         1.1         1471%         OK         154         1.6         1051%           94.8         150         43.3         64         0.7         5529%         OK         110         1.1         1471%         1.5         1.6         1051%<   |              | 2.30    | 10.19 | \$        | 7.44            | 150        | 32.2    | 8       |           | 4828%        |          | 110                   | 1:1          | 2809%                  | X       | 7                     | 9.1                | 2006%                  | ĕ          |
| 8.39         8.1         2.22         1.50         2.0         1135%         OK         330         3.4         660%         OK         457         4.8         477%           15.36         34         34.1         150         28.1         64         0.7         4220%         OK         110         1.1         2455%         OK         154         1.6         1.54         1.6         1754%           14.11         102         12.3         150         16.9         64         0.7         2529%         OK         110         1.1         1471%         OK         154         1.6         155%           19.12         38         68.2         150         43.3         64         0.7         5529%         OK         110         1.1         1471%         OK         154         1.6         155%           14.11         62         88.8         150         64         0.7         5529%         OK         110         1.1         2478%         OK         154         1.6         155%           14.11         62         88.8         150         43.3         64         0.7         5528%         OK         110         1.1         144  |              |         |       |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 15.36   34   341   150   281   64   0.7   4220%   OK   110   1.1   2455%   OK   154   1.6   1754%   14.1   102   12.3   150   16.9   64   0.7   2529%   OK   110   1.1   1471%   OK   154   1.6   1051%   14.1   102   12.3   150   16.9   64   0.7   2529%   OK   110   1.1   3470%   OK   154   1.6   1051%   14.1   14.1   102   12.3   150   15.9   64   0.7   5964%   OK   110   1.1   3470%   OK   154   1.6   2479%   14.1   62   80.8   150   43.3   64   0.7   6494%   OK   110   1.1   3470%   OK   154   1.6   2479%   14.1   12.3   |              | 0.19    | 8.39  | 53        | 22.2            | 35         | 22.7    | 192     |           | 1135%        |          | 330                   | 3,4          | 2099                   | ŏ       | 457                   | 4.8                | 477%                   | ŏ          |
| 15.36         34         34.1         150         28.1         64         0.7         4220%         OK         110         1.1         2455%         OK         150         150         150         162         164         0.7         2529%         OK         110         1.1         1418         OK         154         16         17         2455%         OK         110         1.1         3470%         OK         16         16         16         17         3470%         OK         16         16         17         2456%         OK         110         1.1         3470%         OK         16         2699%           144.1         62         64         0.7         6494%         OK         110         1.1         3470%         OK         15         16         16         16         110         1.1         3470%         OK         110         1.1         3470%         OK  |              | _       |       |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 19.12         38         68.2         15.9         64         0.7         2529%         OK         110         1.1         1471%         OK         154         1.6         105         1.1         1471%         OK         154         1.6         1051%           19.12         38         68.2         150         39.8         64         0.7         5964%         OK         110         1.1         3470%         OK         154         1.6         2499%           14.11         62         80.8         150         43.3         64         0.7         6494%         OK         110         1.1         3478%         OK         154         1.6         2499%           14.11         62         180         43.3         64         0.7         6494%         OK         110         1.1         3478%         OK         156         2499%         OK         110         1.1         3478%         OK         150         1.6         2499%         OK         113         1.2         148         1.6         150         150         150         110         1.1         3478%         OK         113         1.2         126%         OK         113         1.2  |              | 6.52    | 15.36 | 34        | 34.1            | 150        | 28.1    | \$      |           | 4220%        | ŏ        | 110                   | 1.1          | 2455%                  | ğ       | 154                   | 1.6                | 1754%                  | ă          |
| 19,12         38         68.2         150         43.3         64         0.7         5964%         OK         110         1.1         3470%         OK         154         1.6         2479%           14,11         62         80.8         150         43.3         64         0.7         6494%         OK         110         1.1         3778%         OK         154         1.6         2699%           9,48         38         121.8         150         53.2         192         2.0         2658%         OK         113         1.2         2094%         OK         4.8         1105%           11,29         7.2         150         24.7         6.2         0.6         3817%         OK         113         1.2         2094%         OK         153         1.6         1307%           11,59         7.2         150         2.0         258%         OK         113         1.2         2094%         OK         153         1.6         1307%           9,48         7.6         27.8         32.9         3.2         13.2         0.6         3929%         OK         113         1.2         2156%         OK         154         156         1   |              | 5.36    | 14.11 | 102       | 12.3            | 150        | 6.91    | ક       |           | 2529%        |          | 110                   | 1.1          | 1471%                  | ş       | 154                   | 9:                 | 1051%                  | ă          |
| 19.12         38         68.2         150         39.8         64         0.7         594%         OK         110         1.1         3470%         OK         154         1.6         2479%           14.11         6.2         80.8         150         43.3         64         0.7         6494%         OK         110         1.1         3778%         OK         154         1.6         1.6         2499%           4.8         13.1         6.2         80.8         150         2.0         2658%         OK         330         3.4         1546%         OK         4.8         1105%           4.8         12.1         1.2   |              |         |       |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 14.11         62         80.8         150         43.3         64         0.7         6494%         OK         110         1.1         3778%         OK         154         1.6         2699%           94.8         38         121.8         150         53.2         192         2.0         2658%         OK         330         3.4         1546%         OK         4.8         1105%           11.2.77         79         26.2         150         24.7         62         0.6         2898%         OK         113         1.2         2094%         OK         154         1.6         1537%           11.59         7.3         16.2         150         19.4         6.2         0.6         2898%         OK         113         1.2         2094%         OK         154         1.6         1537%           11.59         7.3         16.2         150         19.4         6.2         0.6         2998%         OK         113         1.2         2156%         OK         154         1.6         1507%           9.48         7.6         27.8         30.9         0.6         2998%         OK         135         1.6         154         1.6         <   |              | 17.12   | 19.12 | 38        | 68.2            | 150        | 39.8    | 2       |           | 5964%        | OK       | 110                   | 1.1          | 3470%                  | ĕ       | 72                    | 1.6                | 2479%                  | ŏ          |
| 9.48         38         121.8         150         53.2         192         2.0         2658%         OK         113         1.2         1246%         OK         462         4.8         1105%           12.77         79         26.2         150         24.7         62         0.6         3817%         OK         113         1.2         2094%         OK         154         1.6         1507%           11.59         73         16.2         150         19.4         62         0.6         2998%         OK         113         1.2         1645%         OK         154         1.6         1507%           9,48         76         27.8         150         25.4         62         0.6         3929%         OK         113         1.2         1645%         OK         154         1.6         1507%           9,48         76         27.8         150         25.4         62         0.6         3929%         OK         113         1.2         2156%         OK         154         1.6         1587%           8.39         50         21.8         15.0         25.5         31.9         0.6         392%         OK         593         10.3<   |              | 9.12    | 14.11 | 62        | 80.8            | 150        | 43.3    | 8       |           | 6494%        | УÓ       | 110                   | 1.1          | 3778%                  | ŏ       | 154                   | 1.6                | 2699%                  | ş          |
| 948         38         121.8         150         53.2         192         2.0         2658%         OK         330         3.4         1546%         OK         462         4.8         1105%           12.77         79         26.2         150         24.7         62         0.6         3817%         OK         113         1.2         2094%         OK         154         1.6         1507%           11.59         73         16.2         150         25.4         62         0.6         3929%         OK         113         1.2         2094%         OK         154         1.6         1207%           9,48         76         27.8         150         25.4         62         0.6         3929%         OK         113         1.2         2156%         OK         156         1507%           9,48         76         27.8         150         25.4         62         0.6         3929%         OK         113         1.2         2156%         OK         156         156         156         156         156         156         156         156         156         157         157         157         157         157         157         157  |              |         |       |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 11.57 79 26.2 150 24.7 62 0.6 3817% OK 113 1.2 2094% OK 154 1.6 1207% OK 11.59 73 16.2 150 19.4 62 0.6 298% OK 113 1.2 1645% OK 154 1.6 1207% OX 15.8 150 25.4 62 0.6 3929% OK 113 1.2 2156% OK 154 1.6 1582% OX 158 150 22.5 318 3.3 679% OK 553 5.8 390% OX 770 8.0 280% OX 6.7 1 83 20.2 150 21.7 574 6.0 310% OX 993 10.3 179% OX 1381 14.4 129% OX 17.3 150 20.0 574 6.0 335% OX 993 10.3 179% OX 1381 14.4 139% OX 1381 14.4 139%  |              | <u></u> | 9.48  | 38        | 121.8           | 150        | 53.2    | 192     |           | 2658%        | ğ        | 330                   | 3.4          | 1546%                  |         | 462                   | 4.8                | 1105%                  | ĕ          |
| 11.59 73 16.2 150 24.7 62 0.6 3817% OK 113 1.2 2094% OK 154 1.6 1537% OK 11.5 10.5 2094% OK 154 1.6 1537% OK 11.5 10.5 2094% OK 154 1.6 1207% OK 11.5 10.5 20.5 20.8 20.6 2998% OK 11.3 1.2 10.65% OK 154 1.6 1207% OK 29.8 3.5 20.2 11.8 150 22.5 318 3.3 679% OK 553 5.8 390% OK 770 8.0 280% OK 6.7 1 83 20.2 11.7 574 6.0 310% OK 993 10.3 10.9 0K 1381 14.4 1357% OK 1381 14.4 139% OK 1381 14.4 139% OK 1381 14.4 139%   |              |         |       |           | - 10            |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 11.59         73         16.2         150         19.4         62         0.6         2998%         OK         113         1.2         1645%         OK         154         1.6         1207%           9,48         76         27.8         150         25.4         62         0.6         3929%         OK         113         1.2         2156%         OK         154         1.6         1582%           8.39         50         21.8         150         22.5         318         3.3         679%         OK         553         5.8         390%         OK         770         8.0         280%           6.71         83         20.2         150         21.7         574         6.0         362%         OK         993         10.3         209%         OK         1381         14.4         159%           5.18         10.3         14.9         150         16.6         574         6.0         335%         OK         993         10.3         193%         OK         1381         14.4         139%  |              | ├       | 12.77 | 2         | 26.2            | 55         | 24.7    | 62      |           | 3817%        | ОК       | 113                   | 1.2          | 2094%                  |         | Ž                     | 9.                 | 1537%                  | ŏ          |
| 9,48         76         27.8         150         25.4         62         0.6         3929%         OK         113         1.2         2156%         OK         154         1.6         1582%           8.39         50         21.8         150         22.5         318         3.3         679%         OK         553         5.8         390%         OK         770         8.0         280%           6.71         8.3         20.2         150         21.7         574         6.0         362%         OK         993         10.3         209%         OK         1381         14.4         159%           5.18         10.3         16.9         150         18.6         574         6.0         310%         OK         993         10.3         179%         OK         1381         14.4         129%           3.51         9.1         17.3         150         20.0         574         6.0         335%         OK         993         10.3         193%         OK         1381         14.4         139%  |              |         | 11.59 | 73        | 16.2            | 150        | 19.4    | 79      |           | 2998%        | OK       | 113                   | 1.2          | 1645%                  | i       | 152                   | 1.6                | 1207%                  | Š          |
| 8.39 50 21.8 150 22.5 318 3.3 679% OK 553 5.8 390% OK 770 8.0 280% C   |              | 1.59    | 9,48  | 76        | 27.8            | 551        | 25.4    | 29      | 9.0       | 3929%        | OK:      | 113                   | 1.2          | 2156%                  |         | 2                     | 1.6                | 1582%                  | ŏ          |
| 8.39         50         21.8         150         22.5         318         3.3         679%         OK         553         5.8         390%         OK         770         8.0         280%           6.71         8.3         20.2         150         21.7         574         6.0         362%         OK         993         10.3         179%         OK         1381         14.4         151%           5.18         10.3         14.9         150         18.6         574         6.0         310%         OK         993         10.3         179%         OK         1381         14.4         129%           3.61         91         17.3         150         20.0         574         6.0         335%         OK         993         10.3         193%         OK         1381         14.4         129%  |              |         | :     |           |                 |            |         |         |           |              |          |                       |              |                        |         |                       |                    |                        |            |
| 6.71 83 20.2 150 21.7 574 6.0 362% OK 993 10.3 209% OK 1381 14.4 151% 5.18 10.3 150 20.0 574 6.0 335% OK 993 10.3 193% OK 1381 14.4 139% S.18 17.3 150 20.0 574 6.0 335% OK 993 10.3 193% OK 1381 14.4 139%  |              | 9.48    | 8.39  | 200       | 21.8            | 150        | 22.5    | 318     | 3.3       | %619         | OK       | 5\$3                  | 5.8          | 390%                   | ă       | 770                   | 8.0                | 280%                   | ğ          |
| 6.71         83         20.2         150         21.7         574         6.0         362%         OK         993         10.3         209%         OK         1381         14.4         151%           5.18         10.3         14.9         150         18.6         574         6.0         310%         OK         993         10.3         179%         OK         1381         14.4         129%           3.61         91         17.3         150         20.0         574         6.0         335%         OK         993         10.3         193%         OK         1381         14.4         139%  |              |         |       |           |                 |            | :       |         |           |              |          |                       |              | ;                      |         |                       |                    |                        |            |
| 5.18         103         14.9         150         18.6         574         6.0         310% OK         993         10.3         179% OK         1381         14.4         129%           3.61         91         17.3         150         20.0         574         6.0         335% OK         993         10.3         193% OK         1381         14.4         139%   |              | 8.39    | 6.71  | æ         | 20.2            | 150        | 21.7    | 574     | 0.9       | 362%         | хо       | 666                   | 10.3         | 209%                   | ğ       | 1381                  |                    | 151%                   | Ö          |
| 3.61 91 17.3 150 20.0 574 6.0 335% OK 993 10.3 193% OK 1381 14.4 139%  |              | 17.9    | \$1.8 | 103       | 14.9            | 150        | 18.6    | 574     | 6.0       | 310%         | УО       | 666                   | 10.3         | 179%                   | X       | 1381                  | 14.4               | 129%                   | Ø          |
|  |              | 5.18    | 3.61  | 16        | 17.3            | 150        | 20.0    | 574     | 6.0       | 335%         | ŏ        | 993                   | 10.3         | 193%                   | ÓΚ      | 1381                  | 14,4               | 139%                   | ö          |

LEGEND: DS ... Downstream, Dia ... Diameter, IL. ... Invert Level, L/s ... Liters per second, MM ... Manhole, NG ... No Good, Popn ... Population, PHF ... Probable High Flow, Q ... Quantity, US ... Upstream

|   | Judgement             | S.   | 100      | Mar.       | New    |       | New   |   | š       | Š      | ă      |   | ğ      |   | ă     | 5       | 5       | ĕ      | 3      | ž        | 5        | ě     | 용        |  | ğ      | ğ      | ă     | ă     |  |
|---|-----------------------|------|----------|------------|--------|-------|-------|---|---------|--------|--------|---|--------|---|-------|---------|---------|--------|--------|----------|----------|-------|----------|--|--------|--------|-------|-------|--|
| y for 2015                                    | 01/05<br>(%)          | 72%  | 2022     | 04.117     | 1299%  | -     | 307%  | 1 |         | 20211% | 7452%  | 1 | 18839% |   | 992%  | 1730.00 | 02.4007 | 37350% | 2      | 2180%    | 2        | 2912% | 2680%    |  | 9631%  | 18278% | 421%  | 3446% |  |
| Pipe adequacy for 2015                        | Q2=P.H.F<br>in L/s    | 16.0 | -+-      | 1          | 4.2    |       | 251.8 |   | 9.<br>1 | 0.4    | 4.0    |   | 4:     | 1 | 2     | $\top$  | †<br>5  | ,      | 1      | 3        | 1-       | 40    | 5        |  | 4.0    | 2.     | 寸     | 2.2   |  |
| F.  | Contributs Q          | 1535 | _        | )<br> <br> | 523    |       | 32230 |   | 4       | 42     | 5      |   | 27     |   | ä     | ,       | 3       | 30,5   | 90     | ;        | 3        | 4     | 22       |  | 42     | 42     | 802   | 208   |  |
|   | Sperment              | Ŋ    | $\dashv$ | ₹<br>Se    | New    |       | New   | - | Ř       | ХO     | š      |   | ğ      |   | ă     | à       | š       | 1      | 5      | 1        | 5        | ĕ     | š        |  | ğ      | ğ      | ğ     | ă     |  |
| Pipe adequacy for 2005                        | Q1/Q2<br>(%)          | 100% | 1        | 288%       | 1299%  |       | 318%  |   | 11437%  | 20211% | 7452%  |   | 18839% |   | 992%  | 2       | 17384%  | 22000  | 9.CC/C | J. 600 m | 2107.0   | 2912% | 5680%    |  | 9631%  | 18278% | 4421% | 3446% |  |
| e adequac                                     | Q2~P.H.F<br>in Us     | 11.5 |          | 238.4      | 4.2    | †     | 242.5 |   | 0,4     | 7.0    | 0.4    |   | 9.4    |   | 1.3   |         | 8       | ç      | 7.7    | 7;       | <b>†</b> | 0.4   | 1.3      |  | 0.4    | 0,4    | 2.2   | 2.2   |  |
| r.  | Contribud<br>ng Popn  | 1102 |          | 30516      | 523    |       | 31039 |   | 42      | 42     | 42     |   | 42     |   | 125   |         | 2       | 9      | žį.    | :        | 14       | 41    | 124      |  | 42     | 42     | 208   | 208   |  |
| 8   | quant                 | New  |          | Š          | New    |       | New   |   | OK      | OK     | š      |   | οx     |   | ğ     | - 1     | ă       |        | š      | 1        | š        | Ř     | ŏ        |  | ΟK     | OK     | OK    | ŏ     |  |
| Pipe adequacy for 1995                        | Q1/Q2<br>(%)          | 178% |          | 364%       | 12000% |       | 401%  |   | 22875%  | 40422% | 14905% |   | 37678% |   | 36661 |         | 34767%  | 3      | 7543%  |          | 6538%    | 2969% | 11547%   |  | 19263% | 36557% | 8928% | %6569 |  |
| e adequa                                      | Q2=P.H.F<br>In L/s    | 6.4  |          | 188.5      | 7.5    |       | 192.6 |   | 0.2     | 0.2    | 0.2    |   | 0.2    |   | 9.0   |         | 0.5     |        | -      |          | 0.2      | 0.2   | 9.0      |  | 2:0    | 0.2    | 7     | 1.1   |  |
| ğ   | Contribută<br>ng Popn | 618  |          | 24126      | 433    |       | 24649 |   | 124     | 21     | 22     |   | 2      |   | 29    |         | 21      |        | 103    |          | ន        | 8     | 61       |  | 21     | 21     | 103   | 103   |  |
| Owcity  | 12                    | 11.5 |          | 686.5      | 902    | 9,7   | 771.8 |   | 50.0    | 88.4   | 32.6   |   | 82.4   |   | 12.9  |         | 76.1    |        | 80.9   |          | 13.6     | 12.4  | 73.4     |  | 42.1   | 80.0   | 85.8  | 74.7  |  |
| la Kila<br>Existing Pine Details and Canacity | Die in m.m.           | 90%  |          | કુ         | Ş      | 3     | 89    |   | 150     | 150    | 150    |   | 150    |   | 150   |         | 150     |        | 150    |          | 150      | 150   | 150      | <u>.                                    </u> | 82     | 150    | 50.   | 150   |  |
| Pipe Det                                      | Gradient<br>(0/00)    | 1.2  |          | 12.5       | 3,3    | 0.0   | 15.8  |   | 108.0   | 337.1  | 45.8   |   | 292.9  |   | 7.2   |         | 249.4   |        | 282.4  |          | 0%       | 6.7   | 232.1    |  | 76.6   | 275.7  | 395.6 | 240.3 |  |
| Kila Kila<br>Existin                          | Length lo             | 8    |          | 9          | 8      | 3     | 8     |   | 4       | 38     | 36     |   | 38     |   | 32    |         | \$      |        | 83     |          | 의        | SI    | <u>e</u> |  | 82     | 35     | 2     | 65    |  |
| =   | 23                    | 3.50 |          | 3.00       | Ş      | 3.6   | 221   |   | 66.26   | 53.45  | 51.80  |   | 51.80  |   | 51.57 |         | 51.57   |        | 43.38  |          | 68.30    | 68.30 | 63.89    |  | 73.54  | 63.89  | 57.56 |       |  |
| H MM  | n sa                  | 3.61 |          | 3.50       |        | 16.50 | 3.00  |   | 71.01   | 66.26  | 53.45  |   | 62.93  |   | 51.80 |         | 63.79   |        | 51.57  |          | 88.38    | 68.40 | 68.30    |  | 75.76  | 73.54  | 63.89 | 57.56 |  |
| vered   | S WH DS WH            | 22.  |          | FS         |        | Ω     | ž     |   | 129     | 801    | 127    |   | 127    |   | 126   |         | 126     |        | 25     |          | 172      | 172   | 892      |  | 170    | 169    | 168   | 125   |  |
| Area Covered                                  | US MH                 | 12   |          | F4         |        | 8     | ĭ     |   | 130     | 2      | 3 82   |   | 57     |   | 127   |         | 173     |        | 126    |          |          |       | 172      |  | 5      | 170    | 691   | 168   |  |

LEGEND: DS = Downstream, Dia = Diameter, IL = Invert Level, IL/s = Liters per second, MH = Manhole, NG = No Good, Popm = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

| 5                       | Judgement                             | š      | è   | 5     | ğ      |   | ă     | ğ       | ÖK     |     | ŏ     |    | ğ      | š         |   | ĕ      |   | ŏ     |    | ğ      | - ·.      | Š.    | OK            | OK      |   | ΟK     | OK.       | ΟK    |   |
|-------------------------|---------------------------------------|--------|-----|-------|--------|---|-------|---------|--------|-----|-------|----|--------|-----------|---|--------|---|-------|----|--------|-----------|-------|---------------|---------|---|--------|-----------|-------|---|
| Pine advouses for 2015  | 01/05<br>(%)                          | 825%   | 2.6 | 9,1,4 | 16250% |   | 934%  | 228061  | 16676% |     | 888%  |    | 17686% | 543%      | : | 18507% |   | 266%  |    | 13936% |           | 406%  | 4717%         | 15568%  |   | 2096%  | 6849%     | 3083% |   |
| an order                | 928 P.H.F<br>an L/s                   | 8,4    |     | 3     | 4.0    |   | 5.6   | 4.0     | 4.0    |     | 6.5   |    | 4.0    | 7.4       |   | 4.0    |   | 8.2   |    | 0.4    |           | 9.1   | 0.4           | 0.4     |   | 0,4    | <br>1.3   | 1.3   |   |
| ř                       | Contributi<br>ng Popa                 | 457    | ٤   | 3     | £      |   | 540   | 42      | 42     |     | 623   |    | 42     | 36        |   | 42     |   | 789.  | :  | 42     |           | 872   | 4}            | 15      |   | 42     | 125       | 125   |   |
| ي                       | Judgement                             | ă      | à   | š     | š      |   | Š     | ğ       | о<br>Х |     | ģ     |    | ŏ      | ğ         |   | ĕ      |   | ğ     |    | OK     | :<br>:    | ĕ     | OK            | ОК      |   | ΟK     | OK        | Š     |   |
| Piese adequate for 2008 | Q1/Q2<br>(%)                          | 825%   | 1   | 4174% | 16250% |   | 934%  | 19087%  | 16676% |     | 888%  |    | 17686% | 543%      |   | 18507% |   | 2,995 |    | 13936% |           | 406%  | 4717%         | 1.5568% |   | 2096%  | <br>6849% | 3083% |   |
| and the same            | Contributi Q2=P.H.F<br>ng Popn in L/s | 4.8    | ;   | 9.4   | 0.4    |   | 5.6   | 0.4     | 0.4    |     | 6.5   |    | 0.4    | 7.4       |   | 0.4    |   | 8.2   |    | 0.4    |           | 9.1   | 0.4           | 0,4     |   | 0.4    | <br>1.3   | 1.3   |   |
| à                       | Contributi<br>ng Popn                 | 457    | !   | 47    | 42     |   | 540   | 42      | 42     |     | 623   |    | 42     | 796       |   | 42     |   | 789   |    | 42     |           | 872   | <br>41        | 41      |   | 42     | 125       | 125   |   |
| y                       | Judgement                             | οK     |     | ă     | ĕ      | Ì | OK    | χ       | ΟK     | . : | ΟĶ    |    | Ř      | š         |   | χ      | ÷ | УO    |    | λO     |           | ОĶ    | OK            | OK      |   | ХО     | ОĶ        | ΟK    |   |
| . Co. 10                | wed Q2=P.H.F Q1/Q2 Ju                 | 166976 | 1   | 8347% | 32501% |   | 1889% | 38173%  | 33352% |     | 1796% | :: | 35371% | 1099%     | - | 37015% |   | 1145% |    | 27873% |           | 821%  | %0196         | 31915%  |   | 10191% | 13809%    | 6215% |   |
|                         | 02-P.H.F<br>in L's                    | 2.4    |     | 0.2   | 0.2    |   | 2.8   | 0.2     | 0.2    |     | 3.2   |    | 0.2    | 3.6       |   | 0.2    |   | 4.1   | -  | 0.2    |           | 4.5   | 0.2           | 0.2     |   | 0.2    | 0.6       | 9.0   |   |
| 2                       | Control<br>og Pog                     | 226    |     | 51    | 21     |   | 267   | 21      | 21     |     | 308   |    | 21     | 349       | , | 21     |   | 390   |    | 21     |           | 431   | 20            | 20      | _ | 21     | 62        | 62    |   |
| į                       | 01-Csps                               | 39.3   |     | 18.3  | 71.1   |   | 52.5  | 83.5    | 73.0   |     | 57.6  |    | 77.4   | 40.0      |   | 81.0   |   | 46.5  |    | 61.0   |           | 36.9  | 20.1          | 5'99    | - | 22.3   | 89.2      | 40.1  |   |
| 1                       | Die in mm                             | 150    | :   | 150   | 150    |   | 150   | 150     | 150    |     | 150   |    | 150    | 150       |   | 150    |   | 150   | -  | 150    |           | 150   | <br>150       | 150     |   | 150    | 150       | 150   |   |
|                         | ngth in Cradient Dia in mm (1)=Ca     | 66.6   |     | 14,4  | 217.9  |   | 119.1 | 300.6   | 229.5  |     | 143.1 |    | 258.1  | 689       |   | 282.7  |   | 93.3  | .7 | 160.3  |           | 58.6  | <br>17.5      | 190.6   | : | 21.4   | <br>342.9 | 69.5  |   |
| Kila Kila               | Ferred in                             | 32     |     | 2     | 23     |   | 32    | 7.8     | 40     |     | 32    |    | 32     | 35        |   | 30     |   | 30    |    | 35     |           | 36    | <br>16        | \$      |   | 21     | 98        | - 10  |   |
|                         | 3 %                                   | 41.25  |     | 47.57 | 41.25  |   | 37.15 | 46.62   | 37.44  |     | 32.86 |    | 32.86  | 30.45     |   | 30.45  |   | 27.65 |    | 27.65  |           | 25.54 | <br><br>69.59 | 56.35   | - | 56.35  | 26.86     | 25.54 |   |
| 11.11.24                | 11 %                                  | 43.38  |     | 47.80 | 47.57  |   | 41.25 | 70.07   | 46.62  |     | 37.44 |    | 41,12  | <br>32.86 |   | 38.93  |   | 30.45 |    | 33.26  |           | 27.65 | 65.97         | 69.69   |   | 56.80  | 56.35     |       | : |
| vered                   | DS MH                                 | 124    |     | 167   | 124    |   | 123   | <br>591 | 123    | -   | 122   |    | 122    | <br>121   |   | 121    |   | 120   |    | 120    | <b></b> - | 119   | 161           | 85      |   | 160    | 159       | 119   |   |
| Area Covered            | US MH DS M                            | 125    |     | _     | 167    |   | 124   | 166     | 165    |     | 123   |    | 164    | 122       |   | 163    |   | 121   |    | 162    |           | 120   | ,             | 191     |   | `      | 160       | 159   |   |

LECEND: DS - Downstram, Dia - Diameter, IL - Inver Level, L's - Liters per second, MH - Manhole, NG - No Good, Popn - Population, PHF - Probable High Flow, Q - Quantity, US - Upstram

|   | Judgemont                              | 충     | š     |   | ă      | ä      | ă      |    | 췽      | 3      | 5        | 1      | 5        | 1     | 5 8   | ś     | ă       |   | 鮗      | š      | ă     |     | ğ      | ğ      | ğ     | 3 | š      | ğ      | 1        | ğ     |
|---|--|-------|-------|---|--------|--------|--------|----|--------|--------|----------|--------|----------|-------|-------|-------|---------|---|--------|--------|-------|-----|--------|--------|-------|---|--------|--------|----------|-------|
| Pipe adequacy for 2015  | Q1/Q2<br>(%)                           | 249%  | 343%  | 1 | 12412% | 7110%  | 10646% |    | 7476%  | 2000   | 27.180   | 2000   | 0,000    | 26140 | 2710  | 2110% | 240%    | 1 | 27343% | 18215% | 262%  |     | 31964% | 12635% | 194%  | 3 | 26858% | 22175% |          | 116%  |
| adedinac  | 02-P.H.F<br>in L/s                     | 10.7  | 10.7  |   | 4.0    | 8.0    | 9.0    |    | 6.3    | $\neg$ | 3        | $\top$ | 3        | 5     | 7     | 27    | 13.0    |   | 0.3    | 63     | 13.6  | - 1 | 1      | 0.3    | 14.2  |   |        | 0.3    |          | 14.9  |
| Pipe  | Contribud<br>ng Pope                   | 1027  | 1027  |   | 42     | 72     | 72.    | ļ  | 82     |        | <u> </u> | 3      | *  <br>* | 9     | 3     | 8     | 1227    |   | 8      | 8      | 1307  |     | 8      | 8      | 1367  |   | 9      | 8      |          | 1427  |
| 8   | Judgement                              | š     | ох    |   | ΟK     | УĊ     | ğ      |    | ğ      |        | ğ        |        | ğ        | 1     | á     | ğ     | š       |   | 矣      | ğ      | š     |     | ĕ      | Ж      | ğ     |   | ğ      | ğ      |          | ğ     |
| y for 200   | 20/10                                  | 250%. | 344%  |   | 12412% | 7528%  | 11272% |    | 8373%  |        | 7593%    |        | 7252%    |       | 2012% | 2351% | 245%    |   | 31549% | 21017% | 269%  |     | 36882% | 14579% | 200%  |   | 30990% | 25586% |          | 120%  |
| Pipe adequacy for 2005  | 22-P.H.F<br>le L/s                     | 7.01  | 10.7  |   | 0.4    | 0.7    | 0.7    |    | 0.3    |        | 3        |        | 8.0      |       | 2     | æ:    | 12.7    |   | 0.3    | 0.3    | 13.3  |     | 0.3    | 0.3    | 13.8  |   | 0.3    | 0.3    |          | 14.3  |
| Pip   | Contribute Q2=P.H.F.<br>og Pope in L/s | 1023  | 1023  |   | 42     | 89     | 89     |    | 25     |        | 92       | Ī      | 12       |       | E     | =     | 1220    |   | 26     | 56     | 1272  |     | 56     | 26     | 1324  |   | 56     | 92     |          | 1376  |
| \[ \script{\sinte\sint\sint\sint\sint\sint\sint\sint\sint | d Kamenit                              | ă     | š     |   | š      | š      | Š      |    | оĶ     |        | ă        |        | š        |       | š     | ğ     | ă       |   | ΟK     | ğ      | ğ     |     | OK     | ğ      | ΟĶ    |   | ÓΚ     | ΟK     | •        | Ø     |
| Pipe adequacy for 1995  | Q1/Q2<br>(%)                           | 87.64 | %589  |   | 24823% | 12188% | 18250% | :. | 13955% |        | 9401%    |        | 2797%    |       | 7147% | 3350% | 457%    |   | 39061% | 26021% | 461%  |     | 45663% | 18051% | 359%  |   | 38369% | 31678% |          | 211%  |
| adequac   | 02=P.H.P                               | 5,4   | 5.4   |   | 020    | 2.     | 0.4    |    | 0.2    |        | 0.2      |        | 90       |       | 13    | 1.3   | 6.8     |   | 0.2    | 0.2    | 7.3   |     | 0.2    | 0.2    | 7.7   |   | 0.2    | 0.2    |          | 8.1   |
| ă.  | Contribut (                            | 514   | 514   |   | 21.    | 3      | 42     |    | 15     |        | 17.      |        | 25       |       | 120   | 120   | <br>655 |   | 22     | 12     | 697   |     | 21     | 21     | 739   |   | 21     | 21     |          | 181   |
| pacity  | 8. €                                   | 26.6  | 38.7  |   | \$4.3  | 833    | 8.67   |    | 21.8   |        | 20.6     |        | 58.2     |       | 89.3  | 41.9  | 31.2    |   | 85.4   | 56.9   | 35.7  |     | 6.66   | 39.5   | 27.6  |   | 83.9   | 69.3   |          | 17.2  |
| lla Kila<br>Existing Pipe Detalls and Capacity  | Die in mm                              | 150   | 82    |   | 150    | S<br>S | 150    |    | 150    |        | 150      |        | 55       |       | 150   | 150   | 150     |   | 551    | 150    | 150   |     | 150    | 150    | 150   |   | 150    | 150    |          | 150   |
| Ne Det  | Gradient 1                             | 30.6  | 280   |   | 127.1  | 122.6  | 274.9  |    | 20.5   |        | 18.2     |        | 145.9    |       | 344.1 | 75.6  | 41.9    |   | 314.8  | 139.7  | 8.4.8 |     | 430.2  | 67.2   | 32.9  |   | 303.7  | 207.0  |          | 12.7  |
| Kila Kila<br>Existens   | Longth in                              | 5     | *   % |   | 8      |        | 35     |    | 8      |        | 17       |        | 34       |       | 59    | 32    | 33      |   | 12     | 33     | 82    |     | 52     | *      | 33    |   | 51     | ¥      | <u> </u> | 82    |
| Г   | 2                                      | 24.44 | 3 41  |   | 64.68  | 3      | 45.13  |    | \$0.09 |        | 50.09    |        | 45.13    |       | 24.83 | 22.41 | 20.86   |   | 25.47  | 20.86  | 19.27 |     | 22.90  | 19.27  | 18.12 |   | 29.30  | 18.12  | <u> </u> | 17.33 |
| MH II.  | 11 %5                                  | 23.50 | 4 4 4 |   | 26.63  | 3 3    | 54.75  |    | 50.50  |        | 50.40    |        | \$0.09   |       | 45.13 | 24.83 | 22.41   |   | 47.82  | 25.47  | 20.86 |     | 45.27  | 22.90  | 19.27 |   | 44.79  | 29.30  |          | 18.12 |
| rered   | No MH                                  | 01.   |       |   | 35     | ž      | 3 3    |    | 158    |        | 158      |        | 154      |       | 153   | 117   | 116     |   | 151    | 116    | 115   |     | 149    | 115    | 114   |   | 147    | 114    |          | 113   |
| Area Covered  | US MH                                  | 9     |       | 3 | į      | ٤      | 155    |    | _      |        | `        |        | 158      |       | 154   | 153   | 117     |   | 152    | 152    | 116   |     | 82     | 149    | 115   |   | 148    | 147    |          | 114   |

LECEND: DS = Downsurean, Dia = Diameter, IL = Inver. Level, Lis = Liters per second, MH = Manhole, NG = No Good, Popn = Population. PHF = Probable High Flow, Q = Quantity. US = Upstream

| Area Covered Kila Kila Sewer Line MH 11, Existing Pipe Details and Capacity Pipe adequacy for 1995 Pipe ade | Kila Kila Existing Pipe Details and Capacity Pipe adoquacy for 1995                               | Kila Kila Existing Pipe Details and Capacity   Pipe adoquacy for 1995         | Pipe Details and Capacity Pipe adequacy for 1995 | Pipe Details and Capacity Pipe adequacy for 1995 | Pipe adequacy for 1995  | Pipe adequacy for 1995                          |   |              |         |   | Pipe ad | ρ                                     | E E                | Pipe adequacy for 2005 | 25  | Pig                   | n baged m         | Pipe adequacy for 2015 | 5      |
|---|---|---|--|--|---|---|---|--------------|---------|---|---------|---------------------------------------|--------------------|------------------------|---|-----------------------|-------------------|------------------------|--------|
| DN MH US IL DN IL   Cength in Gradient Dia in man city (LA)   ng Popa   in Lis (%) Judgement (%)            | DN 11. Length in Gradient Dia in mm Q1=Capa Coarributi Q2aP.H.F Q1/Q2 mm Q1/Q2 mg Popa in Lis (%) | 12 Length in Gradient Dia in mm Qi=Capa Contributi OzeP.H.F Q1/02 m (%) m (%) | (0.00) Dis in mm city (L/s) ng Popa in Lis (%)   | Ola in man city (LS) ng Popa in Lis (%)          | Ola-Capa Contribudi Ozar H.F. Q1/OZ (L/s), ng Popa in L/s (%) | Coarribusi Q2aP.H.F Q1/Q2<br>ng Popa in L/s (%) | Coarribusi Q2aP.H.F Q1/Q2<br>ng Popa in L/s (%) | 01/05<br>(%) |         | ludgement                               |         | Contributi Q2=P.H.F<br>ng Popn in L/s | 02=P.H.F<br>in £/s | (%)<br>20/10           | Judgement                                   | Contributi<br>ng Popa | O2#P.H.F<br>in Us | (%)<br>(%)             | Judgen |
|   |   |   |  |  |   |   |   |              |         |   |         |                                       |                    |                        |   |                       |                   |                        |        |
| 113 33.39 17.33 68 236.2 150 74.0 82 0.9 8665% 0  | 17.33 68 236.2 150 74.0 82 0.9 8665%  | 13 68 236.2 150 74.0 82 0.9 8665%   | 236.2 150 74.0 32 0.9 8665%                      | 150 74.0 82 0.9 8665%                            | 74.0 82 0.9 8665%   | 82 0.9 8665%                                    | 0.9 8665%                                       | %5998        |         | ~                                       | ĕ       | 125                                   | 1.3                | 5684%                  | ă   | 125                   | 1.3               | 5684%                  | ĕ      |
| 112 17.33 15.13 33 66.7 150 39.3 952 9.9 397%   | 15.13 33 66.7 150 39.3 952 9.9 397%   | 13 33 66.7 150 39.3 952 9.9 397%  | 66.7 150 39.3 952 9.9 397%                       | 150 39.3 952 9.9 397%                            | 39,3 952 9,9 397%   | 952 9.9 397%                                    | 9,9 397%  | 397%         | $\perp$ | ľ                                       | ¥       | 1619                                  | 16.9               | 233%                   | ök  | 1670                  | 17.4              | 226%                   | ş      |
|   | ┿   |   |  |  |   |   |   |              |         | 1                                       |         |                                       |                    |                        |   |                       |                   |                        |        |
| 4434 111.50 109.50 53 37.7 150 29.6 26 0.3 10923%   | 109.50 53 37.7 150 29.6 26 0.3 10923%   | 109.50 53 37.7 150 29.6 26 0.3 10923%   | 37.7 150 29.6 26 0.3 10923%                      | 150 29.6 26 0.3 10923%                           | 29.6 26 0.3 10923%  | 26 0.3 10923%                                   | 0.3 10923%                                      | 10923%       |         | _ [                                     | OK.     | 37                                    | 0,4                | 7676%                  | ÖĶ  | 9.7                   | 0.5               | 6174%                  | ĕ      |
| 4433 109.50 108.50 31 32.3 150 27.4 26 0.3 10100%   | 50 31 32.3 150 27.4 26 0.3 10100%   | 50 31 32.3 150 27.4 26 0.3 10100%   | 32.3 150 27.4 26 0.3 10100%                      | 150 27.4 26 0.3 10100%                           | 27.4 26 0.3 10100%  | 26 0.3 10100%                                   | 0.3 10100%                                      | 10100%       | . 1     | _ 1                                     | ĕ       | 37                                    | 0.4                | 2007%                  | ĕ   | 3                     | 0.5               | 5708%                  | š      |
| 4432 108.50 106.50 63 31.7 150 27.1 26 0.3 10019%   | 50 63 31.7 150 27.1 26 0.3 10019%   | 50 63 31.7 150 27.1 26 0.3 10019%   | 31.7 150 27.1 26 0.3 10019%                      | 150 27.1 26 0.3 10019%                           | 27.1 26 0.3 10019%  | 26 0.3 10019%                                   | 0.3 10019%                                      | 10019%       |         |   | ŏ       | 37                                    | 0,4                | 70+0%                  | ŏ   | \$                    | 0.5               | 5663%                  | ĕ      |
| 4431 106.50 101.00 64 85.9 150 44.6 26 0.3 16484%   | 101.00 64 85.9 150 44.6 26 0.3  | 101.00 64 85.9 150 44.6 26 0.3  | 85.9 150 44.6 26 0.3                             | 150 44.6 26 0.3                                  | 44.6 26 0.3   | 26 0.3  | 0.3   |              | 6484%   |   | ΟK      | 37                                    | 4.0                | 11584%                 | ĕ   | \$                    | 0.5               | 9317%                  | ğ      |
| 4430 101.00 99.00 32 62.5 150 38.1 26 0.3 14058%  | 99,00 32 62.5 150 38.1 26 0.3   | 99,00 32 62.5 150 38.1 26 0.3   | 62.5 150 38.1 26 0.3                             | 150 38.1 26 0.3                                  | 38.1 26 0.3   | 26 0.3  | 0.3   |              | 4058%   |   | OK.     | 37                                    | 0.4                | 26186                  | ŏ   | 4                     | 0.5               | 7946%                  | ğ      |
| 4429 99.00 97.00 34 58.8 150 36.9 26 0.3 13638%   | 97.00 34 58.8 150 36.9 26 0.3   | 97.00 34 58.8 150 36.9 26 0.3   | 58.8 150 36.9 26 0.3                             | 150 36.9 26 0.3                                  | 36.9 26 0.3   | 26 0.3  | 0.3   |              | 3638%   |   | ΟX      | 37                                    | 0.4                | 9584%                  | ΟĶ  | 34                    | 0.5               | 7709%                  | ŏ      |
| 4428 97.00 95.00 28 71.4 150 40.7 39 0.4 10019%   | 95.00 28 71.4 150 40.7 39 0.4   | 28 71.4 150 40.7 39 0.4   | 71.4 150 40.7 39 0.4                             | 150 40.7 39 0.4                                  | 40.7 39 0.4   | 39 0.4  | 4.0   | I            | %61001  |   | Š       | Š                                     | 0.5                | 7815%                  | OK  | 59                    | 9'0               | 6623%                  | ĕ      |
|   |   |   |  |  |   |   |   |              |         |   |         |                                       |                    |                        |   |                       |                   |                        |        |
| 4428 97.00 95.00 48 41.7 150 31.1 13 0.1 22956%   | 95.00 48 41.7 150 31.1 13 0.1   | 0 48 41.7 150 31.1 13 0.1   | 41.7 150 31.1 13 0.1                             | 150 31.1 13 0.1                                  | 31.1 13 0.1   | 13 0.1  | 0.1   | 1 1          | 22956%  |   | š       | 13                                    | 0.1                | 2295676                | OK  | 13                    | 0,1               | 22956%                 | ş      |
|   |   |   |  |  |   |   |   |              | :       |   |         |                                       |                    |                        |   |                       |                   |                        |        |
| 4415 95.00 68.00 75 360.0 150 91.4 78 0.8 11246%  | 68.00 75 360.0 150 91.4 78 0.8  | 00 75 360.0 150 91.4 78 0.8   | 360.0 150 91.4 78 0.8                            | 150 91.4 78 0.8                                  | 91.4 78 0.8   | 78 0.8  | 0.8   | 1            | 1245%   |   | ă       | 8                                     | 1.0                | 8772%                  | ğ   | 118                   | 1.2               | 7434%                  | š      |
|   |   |   |  |  |   |   |   |              |         |   |         |                                       |                    |                        |   |                       |                   |                        |        |
| 4426 92.00 90.50 44 34.1 150 28.1 26 0.3 10382%   | 90,50 44 34,1 150 28,1 26 0.3   | 44 34.1 150 28.1 26 0.3   | 34.1 150 28.1 26 0.3                             | 150 28.1 26 0.3                                  | 28.1 26 0.3   | 26 0.3  | 0.3   |              | 10382%  |   | ΟK      | 37                                    | 0.4                | 7296%                  | ŏ   | \$                    | 0.5               | 5868%                  | ŏ      |
| 90.50   | 86.50 25 160.0 150 60.9 26 0.3  | 25 160.0 150 60.9 26 0.3  | 160.0 150 60.9 26 0.3                            | 150 60.9 26 0.3                                  | 60.9 26 0.3   | 26 0.3  | 0.3   |              | 22493%  |   | ŏ       | 37                                    | 4.0                | 15806%                 | ÖK  | \$                    | 0.5               | 12713%                 | ğ      |
| 4424 86.50 82.00 27 166.7 150 62.2 26 0.3 22956%  | 82.00 27 166.7 150 62.2 26 0.3  | 0 27 166.7 150 62.2 26 0.3  | 166.7 150 62.2 26 0.3                            | 150 62.2 26 0.3                                  | 62.2 26 0.3   | 26 0.3  | 0.3   | i            | 23956%  |   | ΟK      | 37                                    | 0.4                | 16132%                 | ŏ   | \$                    | 0.5               | 12975%                 | ğ      |
|   |   |   |  |  |   |   |   |              |         |   |         |                                       |                    |                        |   |                       |                   |                        |        |
| 4424 85.00 82.00 58 51.7 150 34.6 26 0.3 12789%   | 82.00 58 51.7 150 34.6 26 0.3   | 0 58 51.7 150 34.6 26 0.3   | 51.7 150 34.6 26 0.3                             | 150 34.6 26 0.3                                  | 34.6 26 0.3   | 26 0.3  | 0.3   |              | 2789%   |   | χo      | 37                                    | 0.4                | 8987%                  | ŏ   | \$                    | 0.5               | 7228%                  | š      |
|   |   |   |  |  |   |   | ** **   |              | 1 1     |   | -       |                                       |                    |                        | :   |                       | -                 |                        |        |
| 4419 82.00 77.50 20 225.0 150 72.2 78 0.8 8891%   | 77.50 20 225.0 150 72.2 78 0.8  | 20 225.0 150 72.2 78 0.8  | 225.0 150 72.2 78 0.8                            | 150 72.2 78 0.8                                  | 72.2 78 0.8   | 78 0.8  | 8.0   |              | 8891%   |   | ğ       | 111                                   | 1.2                | 6248%                  | š   | 138                   | 4.                | 5025%                  | 8      |
|   |   |   |  |  |   |   |   |              | :       |   |         |                                       |                    |                        | ::  |                       |                   |                        |        |
| 4422 82.00 81.00 27 37.0 150 29.3 13 0.1 21644%   | 81.00 27 37.0 150 29.3 13 0.1 21644%  | 0 27 37.0 150 29.3 13 0.1 21644%  | 37.0 150 29.3 13 0.1 21644%                      | 150 29.3 13 0.1 21644%                           | 29.3 13 0.1 21644%  | 13 0.1 21644%                                   | 0.1 21644%                                      | 21644%       |         |   | OK      | 13                                    | 0.1                | 21644%                 | Ä   | 13                    | 0.1               | 21644%                 | ŏ      |
| 81,00 80,50 35 14,3 150 18,2 13 0,1 13442%  | 80.50 35 14.3 150 18.2 13 0.1 13442%  | 35 14,3 150 18,2 13 0.1 13442%  | 14.3 150 18.2 13 0.1 13442%                      | 150 18.2 13 0.1 13442%                           | 18.2 13 0.1 13442%  | 13 0.1 13442%                                   | 0.1 13442%                                      | 13442%       |         |   | Š       | 13.                                   | 0.1                | 13442%                 | OK  | 13                    | 0.1               | 13442%                 | ÖK     |
| 80.50   | 79,50 25 40.0 150 30.5 13 0.1   | 25 40.0 150 30.5 13 0.1   | 40.0 150 30.5 13 0.1                             | 150 30,5 13 0.1                                  | 30,5 13 0.1   | 13 0.1  | 0.1   | 1            | 2493%   |   | ă       | 13                                    | 0.1                | 22493%                 | ЭС  | 13                    | 0.1               | 22493%                 | χ      |
| 77.50 60 33.3 150 27.8 13 0.1 20533%  | 77.50 60 33.3 150 27.8 13 0.1 20533%  | 60 33.3 150 27.8 13 0.1 20533%  | 33.3 150 27.8 13 0.1 20533%                      | 150 27.8 13 0.1 20533%                           | 27.8 13 0.1 20533%  | 13 0.1 20533%                                   | 0.1 20533%                                      | 20533%       | 177     | 4 * * * · · · · · · · · · · · · · · · · | OK<br>N | 13                                    | 0.1                | 20533%                 | OK  | 13                    | 0,1               | 20533%                 | Ö      |
|   |   |   |  |  |   |   |   |              |         |   |         |                                       | 1                  |                        | VII. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. |                       |                   | ÷                      |        |
| 4418 77.50 76.00 23 65.2 150 38.9 117 1.2 3191%   | 76.00 23 65.2 150 38.9 117 1.2  | 23 65.2 150 38.9 117 1.2  | 65.2 150 38.9 117 1.2                            | 150 38.9 117 1.2                                 | 38.9 117 1.2  | 117 1.2   | 1.2   | IП           | 3)91%   |   | οĸ      | 161                                   | 1.7                | 2319%                  | ŏ   | 197                   | 2.1               | 2681                   | Š      |
| 4417 76.00. 74.00 20 100.0 150 48.2 117 1.2 3952%   | 74.00 20 100.0 150 48.2 117 1.2   | 20 100.0 150 48.2 117 1.2   | 100.0 150 48.2 117 1.2                           | 150 48.2 117 1.2                                 | 48.2 117 1.2  | 117 1.2   | 1.2   |              | 3952%   |   | oK      | 161                                   | 1.7                | 2872%                  | οĸ  | 197                   | 2.1               | 2347%                  | Š      |
|   |   |   |  |  |   |   |   |              |         | 1                                       |         |                                       |                    |                        | i<br>!                                      |                       |                   |                        |        |

LECEND: DS = Downstream, Din = Diameter, IL = Invert Level, Lts = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

|              |                                    | Judgament                              | ğ     | ğ                                      | š     | ĕ     | ğ     | ŏ     | ğ             |     | <b>5</b> | ĕ      |   | ğ           | į        | 5       |  | ĕ        | 췽     | ă     | ğ     | ğ     | ğ     |   | ŀ      |        | - 1            | ğ      | ă      | ă     |   |
|--------------|------------------------------------|--|-------|--|-------|-------|-------|-------|---------------|-----|----------|--------|---|-------------|----------|---------|--|----------|-------|-------|-------|-------|-------|---|--------|--------|----------------|--------|--------|-------|---|
|              | ripe adequates for the             | 20/102                                 | 2741% | 2474%                                  | 1097% | 1324% | 1314% | 1191% | %090 <u>1</u> | i i | 8243%    | 8107%  |   | 7356%       | in Color | 2177.10 |  | 2073%    | 540%  | 776%  | 453%  | 1023% | 1409% |   | 24213% | 10829% | 22942%         | 19750% | 13401% | 6178% |   |
|              | e aocdina                          | 02=P.H.F<br>in L/s                     | 2.1   | 2.1                                    | 3.4   | 3.4   | 3.4   | 3,4   | 3.4           |     | 0.5      | 0.5    |   | 0.5         | :        |         |  | 4.6      | 4.6   | 4.6   | 4.8   | 4.8   | 4.8   |   | ŀ      |        | 0.3            | 0.3    | 0.2    | 6.0   |   |
| i            | ٦                                  | Contribut Q2=P.H.F<br>ng Popn in L/s   | 197   | 197                                    | 328   | 328   | 328   | 328   | 328           |     | 4        | 4      |   | \$          | -        | 101     |  | 442      | 442   | 442   | \$    | 2     | \$    |   | ង      | 23     | 25             | 25     | 23     | \$    |   |
|              |                                    | Judgement                              | ŎĶ.   | Š                                      | ĕ     | ĕ     | ş     | ğ     | ŏ             |     | ğ        | š      |   | ğ           |          | Š       |  | ğ        | Ř     | 용     | ŏ     | ŏ     | ğ     | ı | - 1    | ă      | ă              | ğ      | ğ      | ğ     |   |
|              | Pipe adequacy for 2005             | Q1/Q2<br>(%)                           | 3353% | 3027%                                  | 1314% | 1585% | 1573% | 1426% | 1269%         |     | 9544%    | 9387%  |   | 9146%       |          | 6720%   |  | 2457%    | 640%  | 919%  | 532%  | 1202% | 1655% |   | 24213% | 10829% | 22942%         | 19750% | 13401% | 6178% |   |
|              | e adedna                           | 02=P.H.F<br>is L's                     | 1.7   | 1.7                                    | 2.9   | 2.9   | 2.9   | 2.9   | 2.9           |     | 0.4      | 0.4    |   | 0.<br>4.    |          | 6.0     |  | 3.9      | 3.9   | 3.9   | 4.1   | 4.1   | 4.1   |   | 0.3    | 0.3    | 0.3            | 0.3    | 0.2    | 0:7   |   |
|              |                                    | Contribute O2=F.H.F<br>ng Popn in L/s  | 161   | 161                                    | 274   | 274   | 274   | 274   | 274           |     | 38       | 88     |   | 37          |          | 2       |  | 373      | 373   | 373   | 385   | 395   | 395   |   | 25     | ಜ      | ม              | જ      | 22     | 89    |   |
|              | ×                                  | Judgement                              | ĕ     | ΟK                                     | OK    | ğ     | ·OK·  | OK    | ОК            |     | OK       | OK     |   | ÖK          |          | š       |  | ğ        | ŏ     | ğ     | ğ     | ş     | ŏ     |   | OK     | ŏ      | ğ              | ğ      | ğ      | ğ     | _ |
|              | cy for 19                          | Q1/Q2<br>(%)                           | 4614% | 4165%                                  | 1730% | 2088% | 2073% | 1879% | 1672%         |     | 12953%   | 12739% |   | 13015%      |          | 8891%   |  | 3204%    | 832%  | 1199% | 682%  | 1541% | 2123% |   | 24213% | 10829% | 22942%         | 19750% | 13401% | 6178% |   |
|              | Pipe adequacy for 1995             | OZ-P.H.F<br>in L/s                     | 1.2   | 1.2                                    | 2.2   | 2.2   | 2.2   | 2.2   | 2.2           |     | 0.3      | 0.3    |   | 0.3         |          | 0.7     |  | 3.0      | 3.0   | 3.0   | 3.2   | 3.2   | 3.2   |   | 0.3    | 0.3    | 0.3            | 03     | 0.2    | 0.7   |   |
|              | Ä                                  | Contributi (C2mP.H.F<br>ng Popa in L/s | 117   | 117                                    | 208   | 208   | 208   | 208   | 208           |     | 28       | 28     |   | 56          |          | 65      |  | 286      | 286   | 286   | 308   | 308   | 308   |   | x      | 23     | អ              | 23     | 22     | \$    |   |
|              | pacity                             | Ol-Cope<br>city (L/s)                  | 56.2  | 50.8                                   | 37.5  | 45.2  | 6.49  | 40.7  | 36.2          |     | 37.8     | 37.2   |   | 35.2        |          | 60.2    |  | 95.5     | 24.9  | 35.7  | 21.9  | 2,64  | 68.1  |   | 63.1   | 28.2   | 59.7           | \$1.4  | 30.7   | 4.4.  |   |
|              | alls and C                         | Ols in mm.                             | 150   | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 150   | 150   | 150   | 150   | 150           |     | 150      | 150    |   | 150         |          | 150     |  | 150      | 55    | 82    | 150   | 8     | 150   |   | 85.    | 150    | 150            | 150    | 150    | 150   |   |
|              | Existing Pipe Details and Capacity | Gradient<br>(0/00)                     | 136.4 | =                                      | 9.08  | 88.2  | 87.0  | 71.4  | 56.6          |     | \$119    | 59.5   |   | 53.6        |          | 156.3   |  | 392.9    | 26.7  | 55.0  | 20.7  | 105.5 | 200.0 |   | 171.4  | 34.3   | 153.9          | 114.1  | 40.7   | 85.0  |   |
| Kila Kila    | Existin                            | Length in                              | 2     | 12                                     | 33    | 12    | 23    | 21    | 53            |     | 65       | 42     | ļ | 28          |          | 26      |  | 58<br>78 | 5     | 8     | 15    | 4     | 27    |   | 4      | 21     | S.             | 37     | g      | 38    |   |
|              | 11.                                | 71 SQ                                  | 2.5   | 88.00                                  | 96,00 | 64.50 | 62.50 | 8     | 58.00         | :   | 63.00    | 60.50  |   | 60.50       |          | 58.00   |  | 47.00    | 45.00 | 43.90 | 43.59 | 38.95 | 33.55 |   | 50.80  | \$0.08 | 8.18           | 36.78  | 36.78  | 33.55 |   |
|              | MHIL                               | ns er                                  | 5 27  | 8                                      | 888   | 65    | 32    | 62.50 | 61.00         |     | 67.00    | 63.00  |   | 62.00       |          | 60.50   |  | 58.00    | 2,0   | 45.00 | 43.90 | 43.59 | 38.95 |   | 88.00  | 50.80  | 50.0%<br>80.0% | 41.80  | 38.00  | 36.78 |   |
| vered        | Line                               | DS MH<br>No                            | 41 A  | 1 4 2                                  | 4 4   | 4413  | 4 5   | 3     | 4410          |     | 252      | 4445   |   | \$ <u>4</u> |          | 4410    |  | 4409     | 2408  | 1     | 208   | 208   | 185   |   | 4457   | 188    | 187            | 186    | 186    | 185   |   |
| Area Covered | Sewer Line                         | US MH                                  | 61.44 | 1 3                                    | 44.15 | 27.74 | 4413  | 4412  | 12.1          |     | 4455     | 424    |   | 354         |          | 4445    |  | 410      | 828   | 4408  | 1     | ş     | 802   |   | 4458   | 4457   | 188            | 187    | _      | 186   |   |

**)** 

LEGEND: DS - Downstream, Dia - Diameter, IL - Inver Level, L/s - Liters per second, MM - Manhole, NG - No Good, Popn - Population, PHF - Probable High Flow. Q - Quantity, US - Upstream

|  | Judyenent                             | ă      | ŏ      | ğ     | ğ        | ă      | š     |   | ŏ        | ОX     | ğ     | ĕ       | ΟĶ     |    | ά     |          | ĕ      |     | ğ          |    | ă      | Š      | Ř        | ;  | Ř      | 1    | Š     |    |
|--|---------------------------------------|--------|--------|-------|----------|--------|-------|---|----------|--------|-------|---------|--------|----|-------|----------|--------|-----|------------|----|--------|--------|----------|----|--------|------|-------|----|
| Pipe adequacy for 2015                         | 01/02                                 | 28045% | 12176% | 615%  | 250868   | 12669% | 763%  |   | 16713%   | 21993% | 410%  | 17306%  | 17722% |    | 352%  |          | 12404% |     | 471%       |    | 11317% | 13746% | 23259%   |    | 16328% | ]::  | 3072% |    |
| e adequa                                       | 02=P.H.F<br>in Us                     | 0.2    | 0.2    | 3     | $\neg$ T | 62     | 6.5   |   | 0.2      | 0.2    | 6.9   | 0.2     | 0.2    |    | 7.4   |          | 0.2    |     | 7.8        |    | 0.2    | 0.2    | 0.2      |    | 0.2    |      | 0.7   |    |
| K  | Contributi Q2=P.H.F<br>ng Popn in L's | 22     | 22     | 577   | ដ        | n      | 621   |   | 22       | 22     | 999   | 22      | 23     |    | 709   |          | 7.7    |     | 753        |    | 22     | 22     | 22       |    | 22     |      | ૪     |    |
| 25   | Judgprosent                           | ÓΚ     | OK     | ş     | ă        | Š      | ĕ     | : | o<br>X   | οκ     | ÓΚ    | OK      | ò      |    | ŏ     |          | ΟK     |     | ŏ          | 1: | ŏ      | OK     | OK       |    | OK     |      | Š     |    |
| Pipe adequacy for 2005                         | 01/02<br>(%)                          | 28045% | 12176% | %669  | 8980%    | 12669% | 859%  |   | 16713%   | 21993% | 458%  | 17306%  | 17722% |    | 390%  |          | 12404% |     | 519%       |    | 11317% | 13746% | 23259%   |    | 16328% | 7:-/ | 3072% |    |
| x adequa                                       | OZeP.H.F<br>in L/s                    | 0.2    | 0.2    | 5.3   | 0.2      | 0.2    | 5.8   |   | 0.2      | 0.2    | 6.2   | 0.2     | 0.2    |    | 6.7   |          | 0.2    |     | 7.1        |    | 0.2    | 0.2    | 0.2      |    | 0.2    |      | 0.7   |    |
| Pip.   | Coarributi QZaP.H.F<br>ng Popn in L/s | 22     | 22     | 80%   | 23       | 22     | 552   |   | 22       | 22     | 596   | 22      | 22     |    | 640   |          | 22     |     | 684        |    | 22     | 22     | 22       |    | 22     | : '  | .99   |    |
| 8  | <b>e Beauc</b> ut                     | ğ      | ğ      | ĕ     | š        | ğ      | Ö     |   | ×õ       | ă      | ğ     | Š       | OK     |    | ŏ     |          | š      |     | Š          |    | OK     | ŏ      | ŏ        | 15 | Š      |      | OK.   |    |
| Pipe adequacy for 1995                         | (%)<br>20/10                          | 28045% | 12176% | 844%  | 8980%    | 12669% | %6101 |   | 16713%   | 21993% | 536%  | 17306%  | 17722% | Ĭ, | 451%  |          | 12404% | . ! | 594%       |    | 11317% | 13746% | 23259%   |    | 16328% | 11 1 | 3072% |    |
| e adequa                                       | 02-P.R.F<br>in L/s                    | 0.2    | 0.2    | 4.4   | 0.2      | 0.2    | 4.8   |   | 0.2      | 0.2    | 5.3   | <br>0.2 | 0.2    |    | 5.8   |          | 0.2    |     | 6.2        |    | 0.2    | 0.2    | 0.2      |    | 0.2    |      | 0.7   |    |
| Pip  | Contrib<br>rg Pop                     | 22     | ដ      | 421   | Ħ        | 22     | 465   |   | 23       | 22     | ŝ     | 22      | 22     |    | 553   |          | 22     |     | 265        |    | 22     | 22     | ន        |    | z      |      | 8     |    |
| specity  | Ole-Capa<br>city (L/s)                | 64.3   | 27.9   | 37.0  | 20.6     | 29.0   | 49.4  |   | 38.3     | 50.4   | 28.4  | 39.7    | 40.6   |    | 26.0  |          | 28.4   |     | 37.0       |    | 25.9   | 31.5   | 53.3     |    | 37.4   |      | 21.1  |    |
| ails and Ca                                    | Dia in mm                             | 150    | 150    | 150   | 150      | 150    | 150   |   | <u>5</u> | 150    | 52    | 52      | 150    |    | 150   |          | 82     |     | 150        |    | 150    | 150    | 150      |    | 150    |      | 150   | :: |
| ila Kila<br>Existing Pipe Details and Capacity | Gradient<br>(9/00)                    | 178.1  | 33.6   | 59.0  | 18.3     | 36.3   | 105.1 |   | 63.3     | 109.5  | 34.8  | 8.79    | 71.1   |    | 29.1  |          | 34.8   |     | 58.9       | :  | 29.0   | 42.8   | 122.5    |    | 4.09   |      | 19.2  |    |
| Kula Kula<br>Existing                          | Length in                             | 53     | 7      | 40    | ಣ        | 4.1    | 39    |   | 충        | 22     | 33    | 32      | 18     |    | 35    |          | 31     |     | 81         |    | 8      | 85     | 22       | 17 | 8      |      | 13    | 2  |
|  | TI SG                                 | 34.02  | 33.55  | 31.19 | 32.68    | 31.19  | 27.09 | • | 29.39    | 27.09  | 25.94 | 27.22   | 25.94  |    | 24.92 |          | 24.92  |     | 20.15      |    | 26.72  | 23.34  | 8,       |    | 20.40  |      | 20.15 |    |
| MH IL  | us su                                 | 41.50  | 34.02  | 33.55 | 33.10    | 32.68  | 31.19 |   | 31.92    | 29.39  | 27.09 | 29.39   | 27.72  | Γ  | 25.92 |          | 26.00  |     | 24.92      |    | 27.30  | 26.72  | 23.34    |    | 25.29  |      | 20,40 |    |
| vered<br>Line                                  | DS MH                                 | 308    | 185    | 184   | 205      | 184    | 183   |   | 203      | 183    | 182   | 201     | 182    |    | 181   |          | 181    |     | 180        | :  | 197    | 196    | 195      |    | 195    |      | 180   |    |
| Area Covered<br>Sewer Line                     | US MH<br>No                           | 202    | ş      | 185   | `        | 202    | 184   |   | 82       | 203    | 183   | 202     | īg     |    | 182   | <u> </u> | -      | -   | <u>183</u> |    | \      | 197    | <u>8</u> |    | 8      | Ī    | 195   |    |

LECEND: DS = Downstream, Dia = Diameter, IL = Invert Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population. PHF = Probable High Flow. Q = Quantity, US = Upstream

| $\neg$                 | _                                  | ¥                                     |            | _        | _        | П      | Τ.       | T      | Τ. | T      | Τ. | Т        |         |       |       |        |        | L         | Ι,     | 7        | T | <b>₃</b> | T | آر   | 5        | 3     |       | ×     |       | ŏ     |          | NG          | New   | Š     | 3      | ç           | إ     |
|------------------------|------------------------------------|---------------------------------------|------------|----------|----------|--------|----------|--------|----|--------|----|----------|---------|-------|-------|--------|--------|-----------|--------|----------|---|----------|---|------|----------|-------|-------|-------|-------|-------|----------|-------------|-------|-------|--------|-------------|-------|
| 2                      |                                    | Judgement                             | ŏ          | ŏ        |          | ģ      | 1        | ١.     | 1  | ă      |    | ă        | ĕ       | ğ     |       | Ö,     | ŏ      | ı         | ł      | 1        | 4 | Ž        |   | ğ    | S        | Ž     |       | ð     |       | _     |          |             |       | L     | 4-     |             | 4     |
| Pipe adequacy for 2015 |                                    | 01/Q2<br>(%)                          | 317%       | 260%     |          | 13882% | 2037676  | 2 (4/) |    | 15098% |    | 828      | 161%    | 201%  |       | 10095% | 19545% | 336016    |        | 0,5/7/1  |   | 82.5%    |   | 230% | 65%      | 140%  |       | 103%  |       | 5517% |          | 36%         | 142%  | 63%   | 245.05 | +-          |       |
| adequae                |                                    | 2=P.H.F<br>in L/s                     | 8.8        | 8.8      |          | 50     | Т        | Т      | ╗  | 5      |    | 7        | 9.4     | 4.6   |       | 0.2    | 0.2    | 5         | 3      | 0.22     |   | 18.6     |   | 19.1 | 19.1     | ;<br> |       | 28.8  |       | 1.2   |          | 48.6        |       | 48.6  |        | 707         | 0.0   |
| Pipe                   | -                                  | Contribute Q2=P.H.F<br>ng Popn in L/s | <u>2</u> 2 | <u>z</u> | ľ        | 2      | 1        | 77     | +  | 22     | _  | ğ        | 202     | 200   |       | g      | 2      | ٤         | 3 3    | 23       |   | 1789     |   | 1833 | 1833     | 1833  |       | 2762  |       | 118   |          | 4668<br>888 | 4668  | 4668  |        | 977         | Š     |
| -                      | -                                  | Judgement                             | ğ          | ă        |          | 1      | <b>†</b> | á      | 1  | š      |    | ş        | OK<br>V | οK    |       | ă      | Ž      | \$ 8      | 5      | ă        |   | ž        |   | ΟK   | S        | New   |       | ğ     |       | ğ     |          | ž           | Ne.   | Ç     | 2 ;    | <u>ا</u> رو | 2     |
| Pipe adequacy for 2005 |                                    | 07/05<br>(%)                          | 345%       | 283%     |          | 20000  | 120001   | 24245% |    | 15098% |    | 197%     | 174%    | 218%  |       | 10095% | 105750 | 20,040,00 | 33001% | 17275%   |   | 2,996    |   | 342% | 97%      | 209%  |       | 135%  |       | 5517% |          | 43%         | 1689  | 1,48  | 2 2    | 07.687      | 21%   |
| pendape                | -                                  | Q2#P.H.F<br>in L/s                    | 8.0        | ╁╌       | t        | 7      | 7        | 27     |    | 0.2    |    | 8.7      | 8.7     | 8.7   |       | 5      | 1      | 1         | 7      | 0,2      |   | 12.4     |   | 12.8 | 12.8     |       |       | 21.8  |       | -     |          | 14          |       |       | 41.1   |             | 4     |
| No.                    |                                    | Contributi Q                          | 77.2       | 1        | 1        | †      | 777      | 8      |    | 22     |    | 838      | 838     | 82.8  |       | 5      |        | 77        | 21     | 22       |   | 1188     |   | 1232 | 1232     | 1232  |       | 2002  |       | ž     | :        | 39.7        | 10.47 |       | 3947   | 3947        | 3947  |
|                        | +                                  | Juekomen                              | ž          | 1        | <b>5</b> | +      | ă        | š      |    | ŏ      |    | ok<br>Ok | ğ       | ž     | 5     | >      | 5 3    | š         | ğ      | Š        |   | New<br>N |   | Š    | ğ        | 30.2  |       | ž     | 5     | ð     | <u> </u> | Ş           | 2     | 2     | ă      | Ž<br>Z      | ž     |
| for 100                | Pipe adequates 101 125             | 70/10<br>(%)                          | 280%       | 200      | w.KY.c   | +      | 13882%   | 24245% |    | 15098% |    | 220%     | 195%    | 2636  | 5 7 7 | 1000   | 0,000  | 19545%    | 33601% | 17275%   |   | 2921%    |   | 963% | 273%     | 5880% |       | 20000 | 2,57  | 70160 | SCIC!    | 730         | 2000  | %.C97 | 125%   | 488%        | 86%   |
|                        | Bordane                            | 02=F.H.F<br>in Us                     | -          | +        | ;        | ┰      | 0.2      | 22     |    | 0.2    |    | 7.8      | 7.8     | 0     | o,    |        | Т      |           | 0.2    | 0.2      |   | 4        |   | 4.6  | 4.6      |       |       | 741   | 0.21  | 6     | ŝ        | 2           | 1,1   |       | 24.4   |             | 24.4  |
| 1                      | 28                                 | Contributi O                          | 1          | 3        | 8        |        | 22       | 77     | i  | ន      |    | 751      | 15.     |       | ē,    | 1      | 77     | 22        | 22     | 22       |   | 393      |   | 627  | 127      | 12,   | Î     | Ç. Ç. | 2171  | ę     | 20       | 25.65       | 0.00  | 2340  | 2340   | 370         | 2340  |
|                        | V)                                 | Q1=Capa C                             | 0 50       | 0.,2     | 22.7     |        | 31.8     | 55.6   | -  | 34.6   |    | 17.2     | Ş       |       | 0.21  |        | 23.1   | 8.44      | 77.0   | 39.6     |   | 119.6    |   |      | 13.5     | 200   | 0.03  | 1     | 2     |       | 87.8     | ì           | 0     | 88.   | 30.5   | 118.9       | 20.9  |
|                        | Existing Pipe Details and Capacity | Die in num                            | \<br>\!    | 55       | ية<br>ا  |        | 150      | 85     |    | 55     | 1  | 150      | 5       | 3     | 2     |        | 150    | 150       | 150    | 82       |   | ş        |   | 3    | 3        | 3 8   | 3     | 1     | 8     | 1     | 25       | 3           | 3     | 220   | 150    | 250         | 150   |
|                        | Pipe Deta                          | Gradient (0/00)                       | 1          | 33.2     | 22.3     |        | 43.6     | 133.1  |    | 51.6   |    | 12.7     |         | 2.7   | 15.6  |        | 23.1   | 86.5      | 255.7  | 67.6     |   | 133.0    |   | 9    | 6.2,     | è     | ò     |       | 37.6  |       | 198.3    |             | 13.4  | 13.4  | 40.0   | 40.0        | 18.9  |
| Kila Kila              | Existing                           | e digital in                          |            | SS       | 13       |        | 33       | 82     |    | F      |    | **       | ;   9   | 3     | £     |        | 13     | 22        | 23     | 33       |   | 240      |   | ļ    | 3 3      | 8     | 3     |       | 8     |       | 4        |             | 2     | 79    | 37     | L           | 37    |
| İ                      | 3                                  | DS III                                | †          | 18.39    | 18.10    |        | 21.96    | 18.10  |    | 01.85  |    | 13 5.    |         | 16.92 | 16.22 |        | 31.60  | 29.87     | 23.99  | 21.76    |   | 21.76    | À |      | 10.07    | 10.22 | 16.22 | - 1   | 15.13 |       | 15.13    | _           | 4     | 14.07 | 12.59  | 12.59       | F     |
|                        | MHIL                               | ns nr                                 |            | 20.15    | 18.39    |        | 23.40    | +      | +  | 120    | 2  | ,        | 01.81   | 7.    | 16,92 |        | 3.8    | 31.60     | 29.87  | 8 %      |   | (V) \$3  | 3 | 1    | 21.76    | 16.62 | 16.62 |       | 16.22 |       | 24.45    |             | 15.13 | 15.13 | 14.07  | 14.07       | 12.59 |
| ered                   | Line                               | DS MH                                 | -+         | 179      | 178      | -      | ş        | ╁      | 十  | 170    | •  |          | £1      | 176   | 27.   |        | 193    | 192       | 10.    | į        |   | ٤        | 3 |      | 189      | 175   |       |       | 112   |       | 112      |             | 111   |       | 011    |             | 109   |
| rea Covered            | Sewer Line                         | No WH                                 | 1          | 180      | 62.1     |        | -        | . Įš   |    | 1.     | 1  | 1        | 2       | 177   | 1,26  |        |        | <u>8</u>  | 100    | <u> </u> |   | 5        | 2 | Ţ    | <u>ş</u> | 82    |       |       | 175   |       | 145      |             | 112   |       | Ξ      |             | 110   |

LECEND: DS = Downstream. Dia = Diameter, IL = Invert Lovel, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population. PHF = Probable High Flow, Q = Quantity, US = Upstream

|   |   |       |              |          |          |  |              |             |    |       |  |            |                |          |            |   |             |      | <br><b>—</b> T |       | <br>      |        |        |    |       |   |        |       |      | ,,     |       |
|---|---|-------|--------------|----------|----------|--|--------------|-------------|----|-------|--|------------|----------------|----------|------------|---|-------------|------|----------------|-------|-----------|--------|--------|----|-------|---|--------|-------|------|--------|-------|
| \s_\  | Judgement                                 | Nek   |              | ă        | š        |  | Š            | §<br>N<br>S |    | ğ     | ğ                                      | š          |                | ğ        | New<br>New |   | Š           | New  | ž              | ×¢.   | ğ         | ĕ      | ŏ      |    | ŏ     |   | ĕ      | ŏ     | A    | ğ      | XO    |
| y for 201                                     | 01/02<br>(%)                              | 168%  |              | 5507%    | 3878%    |  | 289          | 264%        |    | 5569% | 6629%                                  | 5520%      |                | 209      | 233%       |   | 357%        | 639% | 41%            | 160%  | 1354%     | 4012%  | 8419%  | :  | 1893% |   | 867%   | 1667% |      | 5783%  | 3457% |
| Pipe adequacy for 2015                        | 7. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. |       |              | $\top$   | 2        |  | 51.1         |             |    | 1.2   | 1.2                                    | 12         |                | 2:84     |            |   | 13.6        | 0.0  | 67.2           |       | 1.2       | 1.2    | 1.2    |    | 1.2   |   | 3.7    | 3.7   |      | 1.2    | 1.2   |
| P. P.   | Contribute Q2-P.H.F                       | 4668  |              | 8=       | <u></u>  |  | 2904<br>4004 | 4004        |    | 118   | 118                                    | 118        |                | 5140     | 5140       |   | 1305        | 573  | 27.17          | 7172  | 118       | 2118   | 118    | :  | 118   |   | 354    | 354   |      | 118    | 811   |
|   | Judgefortif                               | New   |              | ă        | ğ        |  | ž            | New         | •  | ğ     | οĶ                                     | ΟĶ         | -              | Ŋ        | New        |   | New         | New  | <br>Š          | New   | ğ         | š      | ă      | 1. | ò     | - | ά      | ŏ     | 7.1. | ĕ      | ĕ     |
| Pipe adequacy for 2005                        | Q1/Q2<br>(%)                              | %661  | - †          | 5507%    | 3878%    |  | 79%          | 310%        |    | 5569% | %6799                                  | 5520%      |                | 62%      | 244%       |   | 538%        | 639% | <br>49%        | 192%  | 1354%     | 4012%  | 8419%  |    | 1893% |   | %199   | 1667% |      | 5783%  | 3457% |
| adequac                                       | 02-P.H.F                                  |       |              |          | 2        |  | 43.6         |             |    | 1.2   | 1.2                                    | 1.2        |                | 46.0     |            |   | 9.0         | 6.0  | <br>55.9       |       | 1.2       | 27     | 12     |    | 1.2   |   | 3.7    | 3.7   | -    | 1.2    | 1.2   |
| Pipe  | Contributi Q                              | 3947  |              | <u>8</u> | <u>~</u> |  | 4183         | 4183        |    | 118   | 118                                    | 118        |                | \$14     | 6144       |   | 998         | 573  | <br>2965       | 2965  | 118       | 118    | 118    |    | 118   |   | 38     | 355   |      | 118    | 118   |
|   | ) adgement                                | New   |              | š        | ğ        |  | οK           | New         |    | ğ     | ĕ                                      | ă          |                | ğ        | New        |   | ¥<br>Z<br>Z | New  | <br>NG         | New   | χ         | ΟĶ     | ΟK     |    | š     | - | o<br>X | οĸ    |      | ğ      | Ж     |
| Pipe adequacy for 1995                        | (%)                                       | 336%  |              | 7301%    | 5142%    |  | 132%         | 514%        |    | 7384% | 8789%                                  | 7318%      |                | 102%     | 399%       |   | 1629%       | 639% | 73%            | 286%  | 1795%     | \$319% | 11163% |    | 2509% |   | 885%   | 2210% |      | 76679c | 4584% |
| adequac                                       | 2=P.H.V<br>In I./s                        |       |              | 6.0      | 6.0      |  | 26.2         |             |    | 69    | 6.0                                    | Τ"         |                | 28.1     |            |   | 3.0         | 0.9  | 37.5           |       | 6.0       | 6.0    | 0.9    |    | 6.0   |   | 2.8    | 2.8   |      | 60     | 60    |
| Pipe  | Contribud Q2-P, H, P<br>ng Popn In L/s    | 23.40 |              | 68       | 68       |  | 2518         | 2518        | -  | 8     | 68                                     | 8          | <del> </del> - | 88       | 2698       |   | 987         | 573  | 3599           | 358   | 68        | 68     | 68     |    | 68    |   | 267    | 267   |      | 8      | 8     |
| yacity  | Ole-Cape<br>city (L/s)                    | 8.1.8 |              | 2.19     | 47.7     |  | 8,<br>6      | 134.9       |    | 68.5  | 81.5                                   | 87.8       |                | 28.7     | 112.1      |   | 48.5        | 38.1 | 27.5           | 107,4 | 16.6      | 49.3   | 103.5  |    | 23.3  | - | 24.6   | 61.5  |      | 1,17   | 42.5  |
| is and Car                                    | Dia in mim                                | 250   |              | 150      | 150      |  | 150          | 250         |    | 82    | 150                                    | 8          |                | <u>5</u> | 280        |   | 8           | 82   | 150            | 250   | <u>85</u> | 150    | 150    |    | 150   |   | 85     | 150   |      | 8      | 150   |
| la Kila<br>Existing Pipe Details and Capacity | Gradient<br>(0/00)                        | 18.9  |              | 37.5     | 0.86     |  | 51.5         | 51.5        |    | 202.1 | 286.3                                  | 8 <u>8</u> |                | 33.6     | 35.6       |   | 21.9        | 13.5 | 32.6           | 32.6  | 119       | 28.9   | 461.8  |    | 23.3  | T | 797    | 162.9 |      | 217.8  | 77.9  |
| Kila Kila<br>Existing                         | Length in                                 | 37    |              | 19       | 22       |  | ×            | 7,          |    | *     | 33                                     | 8          |                | 8        | 38         |   | 8           | 750  | 3              | 8     | 38        | 8      | .17    |    | 33    |   | ब्र    | 75    |      | 8      | 82    |
|   | 뀵   | 11.89 | <del> </del> | 17.18    | 1.89     |  | 10.14        | 10.14       |    | 27.02 | 17.88                                  | 4102       |                | 888      | 8.86       |   | 98.8        | 8.86 | 5.86           | 5.86  | 47.81     | \$0.03 | 32.83  |    | 32.83 |   | 31.16  | 18 94 |      | 21.12  | 18.94 |
| MH IL   | ns et                                     | 12.59 |              | 29.23    | 17.18    |  | 11.89        | +           | +- | 33.91 | +                                      | ╂          |                | 10.14    | 10.14      |   | 22.00       | 8,61 | 8.86           | 8.86  | 48.24     | ٠.,    | 40.68  |    | 33.60 |   | 32.83  | 31.16 |      | 24 19  | +     |
| /ercd   | DS MH                                     | +     |              | 143      | 82       |  | 80           |             |    | 141   | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |            |                | 202      |            | + | 101         | 101  | <u>5</u>       |       | 35        | 135    | 55     |    | 122   |   | 133    | 133   |      | 138    | 11    |
| Area Covered<br>Sewer Line                    | CS MH                                     | 1     |              | <u> </u> | 5.       |  | 8            |             |    | 142   | 1 2                                    | 64         |                | ž        |            | 1 | 9           | 503  | 107            |       | 137       | 136 :  | 135    |    | \     | 1 | 134    | 133   |      | 130    | 82    |

LEGEND: DS . Downstream, Dia . Diameter, IL .. Invert Level, L/s ... Liters per second, MH ... Manhole, NG ... No Good, Popn ... Population, PHF ... Probable High Flow, Q ... Quantity, US ... Upstream

| S                      |                                    | Judgement             |   | 히     |   | S    | New   | ĕ        | ğ     | ă     | š     |   | ğ      | • | ğ     | ŏ    | ž    | New  |       | ğ         | ğ    | š    | ğ        | ĕ     |   | ĕ    | ÿ.   | ž    | Z    | New  |
|------------------------|------------------------------------|-----------------------|---|-------|---|------|-------|----------|-------|-------|-------|---|--------|---|-------|------|------|------|-------|-----------|------|------|----------|-------|---|------|------|------|------|------|
| Pipe adequacy for 2015 |                                    | 2010<br>(%)           |   | %0%   |   | 20%  | 193%  | 1694%    | 853%  | %5%   | 285%  |   | 1629%  |   | 402%  | 201% | 11%  | 105% |       | 1224%     | 706% | 221% | 715%     | %696  |   | 270% | 59%  | 126% | 4%   | 107% |
| e adequa               |                                    | Q2-P.H.F<br>in L/s    |   |       |   | 74.2 |       | 9.1      | 9.1   | 9.1   | 9.1   | Î | 1.6    |   | 8,4   | 8.4  | 80.0 |      |       | 1.2       | 1.2  | 1.2  | 1.2      | 1.2   |   | 4.1  | 17.7 |      | 85.1 |      |
| Į.                     |                                    | Contribud             |   | 88    |   | 916/ | 7916  | <u>z</u> | 32    | 7.    | 32    |   | 152    |   | 462   | 462  | 8532 | 8532 |       | 118       | 118  | 118  | 118      | 118   |   | 380  | 38   | 390  | 9076 | 9076 |
| 7                      |                                    | Judgement             |   | OK    |   | NG   | New   | ğ        | ŏ     | ΟĶ    | ΟĶ    |   | ΟĶ     |   | ΟK    | OK   | NG   | New  |       | ΟK        | ŏ    | ΟK   | 췽        | š     |   | ģ    | SZ   | New  | Š    | Nes  |
| Pine edement for 2005  |                                    | QUQ2<br>(%)           |   | %066  |   | %65  | 230%  | 2394%    | 1205% | 12797 | 826%  |   | 2301%  |   | 268%  | 285% | 13%  | 126% | ļ<br> | 1224%     | 706% | 221% | 715%     | %696  | ļ | 306% | 2,99 | 143% | 2%   | 128% |
| a desirate             |                                    | QZ=P.H.F<br>in L/s    |   | 6.1   |   | 62.5 |       | 1.1      | 1.1   | 1"1   | 1.1   |   | 1.1    |   | 3.4   | 3.4  | 9.99 |      |       | 1.2       | 1,2  | 1.2  | 1.2      | 27    |   | 3.6  | 3.6  |      | 70.8 |      |
| Į,                     |                                    | Contributi<br>ng Popu |   | 380   |   | 9999 | 9999  | 109      | 601   | 601   | 601   |   | 109    |   | 327   | 327  | 7102 | 7102 |       | 118       | 118  | 118  | 118      | 118   |   | 345  | 345  | 345  | 7556 | 7556 |
| ,                      | Ţ                                  | ) application         |   | ğ     |   | Š    | NG.   | ş        | Ş     | ğ     | Š     |   | οĸ     |   | ğ     | ŏ    | ğ    | New  |       | οĶ        | š    | ŏ    | Ř        | ş     |   | χ    | š    | New  | S    | New  |
| 7                      | ripe adequacy for 1995             | Q1/Q2<br>(%)          |   | 1312% |   | 86%  | 337%  | 5930%    | 2986% | 3168% | 2046% |   | \$701% |   | 1407% | 705% | 20%  | 190% |       | 1623%     | 936% | 293% | 948%     | 1284% |   | 475% | 103% | 222% | 88   | 192% |
|                        | and a                              | 02-P.H.F<br>to L/s    |   | 4.6   |   | 42.6 |       | 20       | 0.5   | 2,    | 0.5   |   | 0.5    |   | 4.    | 1.4  | 44.4 |      |       | 6.0       | 6.0  | 6.0  | 9.9      | 6'0   |   | 2.3  | 2.3  |      | 47.2 |      |
|                        | أع                                 | Contributi<br>ng Popn |   | 445   |   | 4088 | 4088  | 4        | 4     | 4     | 4     |   | 4      |   | 132   | 132  | 4264 | 4264 |       | <u>\$</u> | 68   | 68   | <b>%</b> | 68    |   | 222  | 222  | 222  | 4530 | 4530 |
| -                      | pecity                             | Q1=Cape<br>cky (L/s)  |   | 8.08  |   | 36.8 | 143.6 | 27.2     | 13.7  | 14.5  | 9.4   |   | 26.1   |   | 19.3  | 6.6  | 8.8  | 84.2 |       | 15.0      | 8.7  | 2.7  | 8.8      | 11.9  |   | 11.0 | 2,4  | 5.1  | 3.7  | 7.06 |
|                        | Existing Pipe Details and Capacity | Die in mun            |   | Š     |   | 82   | 250   | 150      | 150   | 55    | 150   |   | 150    |   | 55    | 150  | 150  | 350  |       | 150       | 35   | 150  | 150      | 150   |   | 150  | 55   | 82   | 150  | 200  |
|                        | Pipe Det                           | Gradient<br>(6/80)    | ŀ | 159.5 |   | 583  | 58.3  | 31.9     | 8.1   | 9.1   | 3.8   |   | 29.4   |   | 16.1  | 4,1  | 3.3  | 3.3  |       | 8.6       | 3.2  | 0.3  | 3.3      | <br>  |   | 5.2  | 07   | 0.2  | 9.0  | 9.0  |
| Kila Kila              | Existin                            | Length in             |   | 82    |   | 8    | 85    | 801      | 52    | 4     | 53    |   | 10%    |   | 4     | 7.4  | 72   | 72   |       | 38        | 74   | છ    | 8        | ∞     |   | છ    | 8    | 22   | 8    | 22   |
| ſ                      | 님                                  | 71 SQ                 |   | 88    |   | 2.48 | 2.48  | 4.42     | 80.4  | 3.60  | 3.49  |   | 3.49   |   | 2.78  | 2.48 | 2.24 | 2.24 |       | 2.85      | 2.61 | 2.59 | 2.39     | 2.39  |   | 2.26 | 224  | 2 24 | 2.21 | 2.21 |
|                        | MH IL                              | าเรก                  |   | 18 94 |   | 3,   | 5.86  | 7.86     | 4.43  | 00.4  | 3.60  |   | 199    |   | 3.49  | 2.78 | 2.48 | 2.48 |       | 3.67      | 2.85 | 2.61 | 2.59     | 2.50  |   | 2.39 | 2.26 | 2.26 | 2.24 | 2.24 |
| vered                  | Line                               | DS MH                 |   | ž     | 2 | Ē    | :     | 227      | ş     | 5 5   | 222   |   | 222    |   | 102   | 2    | 8    |      |       | 234       | 233  | 232  | 231      | 231   |   | 230  | 8    |      | ድ    |      |
| Area Covered           | Sewer Line                         | US MH                 |   | 13    | 3 | ž    | 3     | 228      | 227   | į     | E     |   | 223    |   | 222   | 102  | 101  |      |       | 235       | 3,   | 233  | 232      |       |   | 231  | 230  |      | 8    |      |

LEGEND: DS = Downstream, Dia = Diameter, il. = Invert Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

|                        | Ι                            | £ 1                   | 7  |            | Т | 7     |       |          | <br>  | т |      |   |      | ī      | Т      | Ţ     | Т    | 1 |          | _ 1   | Т | ŢŢ       | Т | Ţ     | 7 | Т     |   | Ţ     |       | <br>  | 7 | _      |
|------------------------|------------------------------|-----------------------|----|------------|---|-------|-------|----------|-------|---|------|---|------|--------|--------|-------|------|---|----------|-------|---|----------|---|-------|---|-------|---|-------|-------|-------|---|--------|
| 15                     |                              | Judgemens             |    | New<br>New |   | 췽     | ģ     | New      | NC.   |   | Ne.  |   | ž    | Ž      | ,,     | 2     |      | ; | ž        | New   |   | New<br>Y |   | Š     |   |       |   | ž     | New   | New   |   | Š      |
| Pipe adequacy for 2015 |                              | Q1/Q2<br>(%)          |    | 191%       |   | 679%  | 971%  | 3690%    | 1386% |   | 238% |   | 126% | 1,6090 | 0.0701 | 1180% |      | 1 | 10I<br>% | 109%  |   | 463%     |   | 355%  |   |       |   | 2766% | 1190% | 282%  |   | 4717%  |
| enbape a               |                              | Q2=P.H.F<br>in U%     |    | 324.0      |   | 1.6   | 1.6   | 1.6      | 6.3   |   | 11.2 |   | 26.1 | 7      | 4°C    | 30 4  |      |   | 356.1    | 362.2 |   | 12.7     |   | 12.7  |   | 25.3  |   | 2.2   | 5.6   | .32.5 |   | 34     |
| A.                     |                              | Contribută<br>ng Popu |    | 41471      |   | 154   | 154   | 154      | 88    |   | 1078 | - | 2502 | 200    | 770    | 2704  | 2010 |   | 45586    | 46364 |   | 1215     |   | 1215  |   | 2430  |   | 213   | 540   | 3118  |   | 327    |
| 8                      |                              | Judgement             |    | New        |   | ΟK    | OK    | New      | Ncw   |   | New  |   | New  |        | NCW.   | 192   | 44   |   | Ne.      | New   |   | New      |   | Ne≰   | į |       |   | New   | New   | New   |   | New    |
| cv for 20              |                              | Q1/Q2<br>(%)          |    | 204%       |   | 959%  | 1373% | 5213%    | 1386% |   | 238% |   | 126% | W2001  | 04/881 | 1200  | 2071 |   | 108%     | 117%  |   | 463%     |   | 355%  |   |       |   | 3527% | 1435% | 291%  |   | \$489% |
| Pipe adequacy for 2005 |                              | Q2mP.H.F<br>in 1/5    |    | 302.8      |   | ::    | 1.1   | 7        | 6.3   |   | 11.2 |   | 26.1 | 6      | y,2    | 707   | 20.1 |   | 334.0    | 338.6 |   | 12.7     |   | 12.7  |   | 25.3  |   | 1.7   | 4.7   | 31.5  |   | 2.9    |
| P.                     |                              | Contributi<br>ng Pepu |    | 38760      |   | 8     | 661   | <u>8</u> | 603   |   | 1078 |   | 2502 | 5      | 787    | 1     | 11/2 |   | 42747    | 43339 |   | 1215     |   | 1215  |   | 2430  |   | 167   | 448   | 3026  |   | 781    |
| 2                      |                              | ) bed gennemit        |    | New        |   | ă     | ò     | New      | New   |   | New  |   | New  | ;      | Š      | 1     | NCW. |   | New      | New   |   | New      |   | New   |   |       |   | New   | New   | New   |   | New    |
| The adequate for 1605  | 101 (                        | Q1/Q2<br>(%)          |    | 270%       |   | 2375% | 3400% | 12915%   | 1904% |   | 363% |   | 178% | 1      | 2453%  | 201   | 1/0% |   | 144%     | 156%  |   | 483%     |   | 370%  |   |       | - | 5259% | 1902% | 317%  |   | 6825%  |
| and open               | en hone o                    | 024P.H.F<br>in L/s    |    | 229.3      |   | 0.5   | 0.5   | 0.5      | 4.6   |   | 7.4  |   | 18.4 | :      | 2.3    | ;     | 4.72 |   | 251.5    | 254.6 |   | 12.1     |   | 12,1  |   | 24.3  |   | 1.2   | 3.5   | 28.9  |   | 2.4    |
| 1                      | ב<br>ב                       | Contributi            |    | 29344      |   | 4     | 2     | 4        | 439   |   | 602  |   | 1766 | 1      | 217    | 1     | 7697 |   | 32189    | 32589 |   | 1165     |   | 1165  |   | 2330  |   | 112   | 338   | 2771. |   | 526    |
| a juni                 | Allowed                      | OI-Capa<br>cky (L/s)  |    | 617.8      |   | 10.9  | 15.6  | 59.2     | 87.1  |   | 26.8 |   | 32.8 |        | 55.4   | ;     | 40.0 |   | 361.3    | 396.3 |   | 58.6     |   | 4.9   |   |       |   | 61.4  | 6.99  | 91.6  |   | 160.7  |
| 2                      | Example Details and Capacity | Die in mm             |    | ફુ         |   | 55.   | 150   | 8        | 8     |   | 82   |   | 200  |        | ã      | 1     | 3    | Ì | 9        | 909   |   | 200      |   | 200   |   | 200   |   | 200   | 82    | 300   |   | 83     |
| 2                      | Table No.                    | Cradlent<br>(8/00)    |    | 10.1       |   | 12.   | 10.5  | 32.6     | 20,5  |   | 6.7  |   | 10.0 |        | 28.6   |       | 0.5  |   | 3.5      | 4.2   |   | 31.9     |   | 18.8  |   | -2.0  |   | 35.0  | 41.7  | 0.6   |   | 240.0  |
| Kila Kila              | E. XIX DIN                   | E ength in            |    | S          |   | 137   | š     | 8        | 22    |   | 270  |   | \$0  |        | 흄      |       | 88   |   | 260      | 240   |   | 360      |   | 160   |   | 3200  |   | 300   | 120   | 390   |   | S      |
|                        |                              | n sa                  | Ţ- | 1.40       |   | 3.65  | 2,52  | Ş        | 8.8   |   | 8:   |   | 1.50 |        | 55.    |       | 3.   |   | 05.0     | 0.50  |   | 3.00     |   | -3.00 |   | 3.50  |   | 8.50  | 3.50  | 0.00  |   | 3.00   |
|                        | MHIL                         | us ir.                |    | 2.21       |   | 4.35  | 3.65  | 2.54     | 17.50 |   | 3.80 |   | 5.00 |        | 5.50   |       | 20   |   | 1.40     | 0.50  |   | 8.50     |   | 000   |   | -3.00 |   | 12.00 | 8.50  | 3.50  |   | 20.00  |
| vered                  | Sug-                         | Σ WH<br>S WH          |    | 703        |   | 220   | 215   | Ę        | 803   |   | 833  |   | 801  |        | 200    |       | 703  |   | 202      | 107   |   | PS P1    |   | PS P1 |   | 713   |   | 714   | 713   | 207   |   | 711    |
| Area Covered           | Sewer.                       | US MH<br>No           | T  | 32         | 1 | 22.1  | ន្ត   | 01.0     | \$08  |   | క్త  |   | 803  |        | 802    |       | 801  |   | 703      | 702   |   | 718      |   | 719   |   | PS P1 |   | 715   | 417   | 713   |   | 712    |

LECEND: DS = Downstream, Dia = Diameter, il. = Invert Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

| Sower Line | Sewer I in | MH II. | 10     | Existin                        | Pipe Det | Existing Pipe Details and Capacity | s pacity               | Pip                                 | e adequa           | Pipe adequacy for 1995 | 5        | P.                 | Pipe adequacy for 2005 | cy for 201    | 2         | È   | an book a          | Pipe adequacy for 2015 |           |
|------------|------------|--------|--------|--------------------------------|----------|------------------------------------|------------------------|-------------------------------------|--------------------|------------------------|----------|--------------------|------------------------|---------------|-----------|---|--------------------|------------------------|-----------|
| N. S. M.   | DS MH      | US IL  | %<br>H | Length in Gradiest<br>m (0/00) |          | Dia to mm                          | Ole Capa<br>clty (L/s) | Dia to man (dty (Les) ng Popn in Le | 02=P.H.F<br>in L/s | (%)<br>20/10           | dyement  | Contribut Oper.H.F | Ozar.H.F<br>in L/s     | \$1/Q2<br>(%) | Judgement | Contributi Q2aP.H.F<br>Judgement ng Popn in L/s | QZ=P.H.F<br>in L/s | Q1/Q2<br>(%)           | Judgement |
| =          | 210        | 8      | 84     | 8                              | 40.0     | 200                                | 65.6                   | ğ                                   | 3.5                | 1852%                  | New<br>W | 395                | 1.4                    | 1594%         | New       | 14  | 4.6                | 1428%                  | New       |
| 210        | 708        | 8      | 300    | ફ                              | 16.7     | 200                                | 42.3                   | 443                                 | 4.6                | 918%                   | New      | 541                | 5.6                    | 751%          | New       | 587   | 6.1                | 692%                   | Nc.       |
|            |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   | ļ                  |                        |           |
| 709        | 708        | 17.00  | 3.00   | 260                            | 53.8     | 200                                | 76.1                   | 246                                 | 2.6                | 2970%                  | New      | 328                | 3,4                    | 2228%         | New       | 402   | 4.2                | 1818%                  | ₹<br>7.   |
| Γ          |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        | ١         |
| 708        | 87         | 3.8    | 2.50   | 8                              | 3.1      | 82                                 | 18.3                   | 923                                 | 9.6                | 191%                   | New      | 1228               | 12.8                   | 143%          | NCW       | 1422  | 14.8               | 124%                   | §<br>Z    |
|            |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        |           |
| 707        | 30,        | 12.00  | 2.50   | 38                             | 31.7     | ă                                  | 58.4                   | 131                                 | 1.4                | 4277%                  | No.      | 214                | 2.2                    | 2618%         | Now       | 286   | 3.0                | 1959%                  | Ne.       |
|            |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        |           |
| 3          | 205        | 2.50   | 8      | 8                              | 25.0     | ş                                  | \$1.9                  | 1390                                | 14.5               | 358%                   | Se<br>Ne | 2013               | 21.0                   | 247%          | New       | 2465  | 25.7               | 202%                   | New       |
| 3          | 3          |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        |           |
| 705        | ğ          | 8      | 0.50   | \$                             | 12.5     | 8                                  | 108.1                  | 4497                                | 46.8               | 231%                   | New      | 5610               | 52.6                   | 206%          | New       | 6340  | 59.4               | 182%                   | New       |
|            |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        |           |
| 202        | 20,        | 38     | 050    | 170                            | 20.6     | 202                                | 47.1                   | 232                                 | 2.4                | 1947%                  | New      | 426                | 4.4                    | 1061%         | New       | 612   | 6.4                | 738%                   | New       |
|            |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        |           |
| 701        | æ          | -0.50  | -1.63  | 99.                            | 7.1      | 99                                 | 516.0                  | 37588                               | 293.7              | 176%                   | New      | 49688              | 388.2                  | 133%          | New       | 53629   | 419.0              | 123%                   | Š         |
| K          | £          | -1.63  | 8.8    | 360                            | -26.8    | 800                                |                        | 37588                               | 293.7              |                        |          | 49688              | 388.2                  |               |           | 53629   | 419.0              |                        |           |
|            |            |        |        |                                |          |                                    |                        |                                     |                    |                        |          |                    |                        |               |           |   |                    |                        |           |

LEGEND: DS = Downstream, Dia = Diameter, IL = lover Level, L/s = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

| Area Covered | vered    |       | ĺ     | Gabutu.        | Gabutu, Vabukori                   |            |                        |                    |                   |                        |           | i                     |                   | 100                    | ,           | ğ          | 24000              | 300 and annual for 2018 | ١  |
|--------------|----------|-------|-------|----------------|------------------------------------|------------|------------------------|--------------------|-------------------|------------------------|-----------|-----------------------|-------------------|------------------------|-------------|------------|--------------------|-------------------------|--|
| Sewer Line   | Line     | ¥     | MHIL  | Existin        | Existing Pipe Details and Capacity | ails and C | pacity                 |                    | x adequa          | Pipe adequacy for 1995 |           | ٤                     | e adequa          | type adequacy for 2002 | 5           |            | 2000               |                         |  |
| US MH        | DS MH    | 3     | 8     | Length lo<br>m | Gradlent<br>(0/00)                 | Die in mm  | Ol = Capa<br>chy (L/s) | Contribut 02-P.H.F | 02=P.H.F<br>in Us | ZÓ/(Ó)                 | Judgement | Contributi<br>ng Popa | QZeP,H.F<br>in L% | 01/02<br>(%)           | Jud gemeent | Contributa | Q2=P.H.F<br>in L/s | 01/05                   | Judgement  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| 8            | 101      | 3.8   | 15.00 | 240            | -75.0                              | 150        |                        | 525                | 5.5               |                        | Ncw       | 656                   | 10.0              |                        | New         | 8          | 10.4               |                         | New  |
| 101          | 7S.A     | 15.00 | 97.1  | 360            | 4.4                                | 8          | 69.1                   | 830                | 9.8               | 800%                   | New       | 1650                  | 17.2              | 402%                   | New         | 869        | 17.6               | 393%                    | New<br>New<br>New<br>New<br>New<br>New<br>New<br>New<br>New<br>New |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
|              | Konebada |       |       |                |                                    |            |                        |                    |                   |                        |           | <u>i</u>              |                   |                        |             |            |                    |                         |  |
| 1-           | 3        | 14.54 | 95.01 | 82             | 51.0                               | 150        | 34.4                   | 40                 | 4.0               | 8252%                  | ă         | \$                    | 0.7               | 4784%                  | š           | 8          | 1.0                | 3438%                   | ĕ  |
|              |          |       |       |                |                                    |            |                        | :                  |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| 9            | 5        | 15.12 | 12.50 | 18             | 145.6                              | 150        | 58.1                   | 40                 | 0.4               | 13945%                 | OK        | 69                    | 0.7               | 8084%                  | ŏ           | 36         | 1.0                | 2810%                   | š  |
| s            | 4        | 12.50 | 12.19 | 18             | 17.2                               | 150        | 20.0                   | 40                 | 0.4               | 4797%                  | Ŗ         | 8                     | 0.7               | 2781%                  | š           | 8          | 1.0                | 1999%                   | š  |
| 4            | 3        | 12,19 | 10.36 | 31             | 59.0                               | 150        | 37.0                   | đ                  | 6.0               | 8881%                  | OK.       | 69                    | 0.7               | 5148%                  | š           | 8          | 1.0                | 3700%                   | ă  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| 8            | 7        | 10.36 | 2.22  | *              | 239,4                              | 52         | 74.5                   | 22                 | 1.3               | 8961%                  | ğ         | 207                   | 2.2               | 3456%                  | š           | 288        | 3.0                | 2484%                   | ş  |
| 7            | -        | 2.22  | 1.32  | 39             | 23.1                               | 55         | 23.1                   | 120                | 1.3               | 1851%                  | ð         | 207                   | 2.2               | 1073%                  | ÖK          | 288        | 3.0                | 771%                    | 용  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| -            | PS2      | 1.32  | 87    | 2              | 464.0                              | 55         | 103.7                  | 22                 | 53                | 8299%                  | New       | 207                   | 2.2               | 4811%                  | New         | 288        | 3.0                | 3458%                   | New  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| PS2          | 102      | 8:    | 22.00 | 120            | -191.7                             | <u>8</u>   |                        | 1254               | 13.1              |                        | New       | 2547                  | 26.5              |                        | New         | 2668       | 27.8               |                         | New  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
|              | Diharofa |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| 77           | 3        | 25.45 | 21.18 | 22             | 194.1                              | 150        | 67.1                   | 210                | 2.2               | 3067%                  | ×         | 210                   | 2.2               | 3067%                  | OK          | 210        | ci<br>ci           | 3067%                   | Š,   |
| 3            | 7        | 21.18 | 17.07 | 2              | \$ 2.2                             | 55         | 38.6                   | 210                | 2.2               | 1764%                  | XO        | 210                   | 2.2               | 1764%                  | ğ           | 210        | 2.2                | 1764%                   | ğ  |
| 7            | -        | 17.07 | 14.78 | 3              | 8.64                               | 05.        | 34.0                   | 210                | 2.2               | 1553%                  | ŏ         | 210                   | 2.2               | 1553%                  | OK          | 210        | 2.2                | 1553%                   | ğ  |
|              |          |       |       | -              |                                    |            |                        |                    |                   | : :                    |           |                       |                   |                        |             |            |                    |                         |  |
| S            | -        | 18.75 | 14.78 | 33             | 124.1                              | 82         | 53.6                   | 210                | 2.2               | 2452%                  | OK<br>K   | 210                   | 2.2               | 2452%                  | ğ           | 210        | 2.2                | 2452%                   | ğ  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         | :  |
| -            | °        | 14.78 | 13.41 | 18             | 76.1                               | 150        | 0.54                   | 629                | 9.9               | 641%                   | οĸ        | 629                   | 9.9               | 641%                   | ğ           | 629        | 9.9                | 641%                    | ğ  |
| v            | 7        | 13.41 | 8.10  | 33             | 160.9                              | 551        | 61.1                   | 623                | 6.6               | 932%                   | οK        | 629                   | 9'9               | 932%                   | ŏ           | 629        | 9.9                | 932%.                   | ΟĶ   |
| ,            | 000      | 8.10  | 1.22  | 23             | 150.3                              | 150        | 29.0                   | 629                | 9.9               | 901%                   | ğ         | 673                   | 9.9               | 901%                   | OK          | 629        | 9.9                | 901%                    | ĕ  |
|              |          |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |
| ×            | 8        | -1.22 | 300   | ٠,             | 356.0                              | 150        | 6.06                   | 629                | 9.9               | 1387%                  | New       | 629                   | 9.9               | 1387%                  | New         | 629        | 9.9                | 1387%                   | New  |
| PS3          | 102      | 3.00  | 22.00 | 320            | -78.1                              | 150        |                        | 629                | 9.9               |                        | New       | 629                   | 9.9               |                        | New         | 629        | 9.9                |                         | New<br>New   |
|              | ]        |       |       |                |                                    |            |                        |                    |                   |                        |           |                       |                   |                        |             |            |                    |                         |  |

LECEND: DS = Downstream, Dia = Diameter, IL = Invert Level, Lis = Liters per second, MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream

| Area Covered | vered      |       |       | Gabutu,   | Cabura, Vabukora          |                                    |                       |                       |   |            |  |            |                     | 1                      | <b>\</b>  | 1  | o odenavo | Pine adequates for 2015 | _         |
|--------------|------------|-------|-------|-----------|---------------------------|------------------------------------|-----------------------|-----------------------|---|------------|--|------------|---------------------|------------------------|-----------|--|-----------|-------------------------|-----------|
| S            | Soupe Line | M     | MH IL | Existin   | R Pipe Det                | Existing Pipe Details and Capacity | apacity               | Ę,                    | Pipe adequacy for 1995                  | cy for 199 | 2  | 12         | aged as             | Pipe adequacy for 2003 |           | Ì  |           |                         | T         |
| US MH        | DS MH      | US IL | 3     | Length in | Length in Gradient (9/00) | Dis in mm                          | QI=Cape<br>efty (L/s) | Contributi<br>ag Popn | Die in mm ctty (L/s) ug Popn in L/s (%) |            | Judgement Contributi (2=P.H.P. Judgement ng Pops in 1.45 | Contribudi | 02-P.H.F<br>in 1./s | Q1/Q2<br>(%)           | Judgement | Concrebadi Q2#P.H.P. Judgement ng Popn in Ms | Q2=P.H.P  | Q1/O2<br>(%)            | Judgement |
|              |            |       |       |           |                           |                                    |                       |                       | 1                                       |            |  | 1          |                     |                        |           |  |           |                         |           |
|              |            |       |       |           |                           |                                    |                       |                       |   |            |  |            |                     | 1                      | 1         | Ì  | Ì         |                         |           |
|              |            |       |       |           |                           |                                    |                       |                       |   |            |  |            |                     |                        |           |  |           |                         |           |
|              |            |       |       | [         | ٳ                         | 6                                  | 3                     | 1002                  | 301                                     | 4050%      | 2  | 3176       | 33.1                | 293%                   | XC.       | 3297   | 34.3      | 282%                    | New       |
| 25           | 8          | 57.8  | 8.8   | 360       | 67.5                      | 37                                 | >                     | 1007                  | 2                                       |            |  |            |                     |                        |           | 3  |           |                         | 7,        |
| 28           | 103        | 8.00  | 8.4   | 240       | -25.0                     | 200                                |                       | 2376                  | 24.8                                    |            | Ne.€   | 5014       | 47.0                |                        | Nc.w      | 5135   | \$<br>-   |                         | NC N      |
|              |            |       |       |           |                           |                                    |                       |                       |   |            |  |            |                     |                        |           |  |           |                         |           |
| 1            | 5          | 18    | 2     | 9,50      | 673                       | 150                                |                       | 863                   | 0.6                                     |            | New  | 1374       | 14.3                |                        | New       | 1819   | 18.9      |                         | New       |
| ê            | 103        | 3.    | 3     | 3         | *                         |                                    |                       |                       |   |            |  |            |                     |                        |           |  |           |                         |           |
|              |            |       |       |           |                           |                                    |                       | -                     |   | 1          | :  | 9.00       | ţ                   | 2000                   | N.o.Y     | 0583   | 808       | 17500                   | M-N       |
| 103          | PS6        | 14.00 | 8,5   | 3         | 26.6                      | 8                                  | 157.6                 | 4322                  | 45.0                                    | 350%       | Š  | 2178       | ?                   | 0X.CO.7                | MONT      | 77.07  | 27.2      | 2                       |           |
| ž            | Ê          | 3.8   | 8.8   | 1400      | -7.9                      | 300                                |                       | 5465                  | 51.2                                    |            | New  | 11760      | 8                   |                        | 3<br>Z    | 16511  | 137.6     |                         | 3°C       |
|              |            |       |       |           |                           |                                    |                       |                       |   |            |  |            |                     |                        |           |  |           |                         |           |
|              |            |       |       |           |                           |                                    |                       |                       |   |            |  |            |                     |                        |           | į  |           |                         |           |

LEGEND: DS = Downstream, Dia = Diameter, IL = Invert Level, L/s = Liters per second. MH = Manhole, NG = No Good, Popn = Population, PHF = Probable High Flow, Q = Quantity, US = Upstream