

T61.2

From: Ken Ludwa
To: Jim Kelley
Date: Tue, Jun 30, 1998 8:05 AM

| Source | Removal Efficiency | | | | Metals | | | | Bacteria | TPH |
|-----------------------|--------------------|-------|-------|-------|---------|----|----|----|----------|-------|
| | Solids | P | N | BOD | General | Fe | Pb | Zn | | |
| Marselek et al (1996) | 20-40 | 20-40 | 20-40 | 20-40 | 0-20 | | | | | 20-40 |
| Metro (1992) | 83 | 29 | | | | 72 | 67 | 63 | 46 | 75 |
| Wang et al (1981) | | | | | | 73 | 80 | 70 | 60 | |
| Oakland (1983) | 33 | | | | | | 65 | 51 | 48 | |
| Kercher et al (1983) | 99 | | | | | 99 | 99 | | | |
| Harper (1984) | | | | | | 75 | 90 | 90 | 35 | |
| Minton (1993) | 90 | 35 | | | | | | 35 | | |
| UW Short Course | 68 | 29 | | | | 65 | 62 | | 42 | <0 |
| Recommended Value | 70 | 30 | | | | 75 | 75 | 60 | 45 | |

| Source | Solids | P | N | BOD | Removal Efficiency | | Metals | | | Bacteria | TPH |
|--------------------------|--------|-------|-------|-------|--------------------|----|--------|----|----|----------|-----|
| | | | | | General | Fe | Pb | Zn | Cu | | |
| Marsalek et al (1996) | 40-60 | 40-60 | 20-40 | 40-60 | 60-80 | | | | | 40-60 | |
| MWCOG (1979) | 75-89 | 60-75 | 45-70 | 70-80 | 75-89 | | | | | 75-88 | |
| Minton (1993) | 90 | 80 | | | | | | 50 | | | |
| Recommended Value | 75 | 70 | | | | | | | | | |
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|------------------------|--------------------|-------|--------|-------|---------|--------|-------|-------|-------|----|----------|-----|
| | Solids | P | N | BOD | General | Fe | Pb | Zn | Cu | | | |
| Marselek et al (1996) | 80-100 | 40-60 | 20-40 | 40-60 | 60-80 | | | | | | 80-100 | |
| DWML (1983) | 60-90 | 40-50 | 25-35 | 25-35 | | | 70-80 | 35-45 | | | | |
| Minton (1983) | 80 | 35 | | | | | | 35 | | | | |
| Austin (1990) | 16 | 3 | 43 | 23 | | -64 | 16 | -63 | 19 | 74 | | |
| Wu et al (1996) | 93 | 45 | 32 | | | 87 | | 80 | | | | |
| | 62 | 36 | 21 | | | 52 | | 32 | | | | |
| | 41 | | | | | | | | | | | |
| Stanley (1996) (range) | 42-83 | -5-36 | -52-21 | | | | 2-79 | 6-38 | 11-54 | | | |
| (mean) | 68 | 19 | -8 | | | | 44 | 27 | 29 | | | |
| Recommended Value | 65 | 40 | | | | 40 | 40 | 30 | 25 | | | |

| Source | Solids | P | N | BOD | Removal Efficiency | | | Metals | | | Bacteria | TPH |
|-------------------|--------|------|-------|-------|--------------------|-------|-------|--------|-------|-------|----------|-----|
| | | | | | General | Fe | Pb | Zn | Cu | | | |
| Bellevue (1988) | | 96 | | | | | | | | | | |
| Minton (1983) | 80 | 35 | | | | | | 35 | | | | |
| Austin (1990) | 83 | 3 | 18 | 15 | | 56 | 65 | 39 | 19 | | | |
| | 70 | 50 | 32 | 26 | | 60 | 85 | 78 | 20 | | | |
| | 87 | 61 | 31 | 51 | | 66 | 80 | 80 | 60 | | | |
| LJW Short Course | 70-96 | 3-65 | 40-80 | 15-78 | | 56-71 | 65-85 | 33-80 | 20-70 | 22-69 | | |
| Recommended Value | 75 | 50 | | | | 60 | 75 | 55 | 30 | | | |

| Source | | | | | Removal Efficiency | | Metals | | | Bacteria | TPH |
|---------------|--------|----|---|-----|--------------------|----|--------|----|----|----------|-----|
| | Solids | P | N | BOD | General | Fe | Pb | Zn | Cu | | |
| Minton (1993) | 90 | 35 | | | | | | 35 | | | |
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| BMP | Solids | P | Fe | Pb | Zn | Cu |
|--------------|--------|----|----|----|----|----|
| Bioswale | 70 | 30 | 75 | 75 | 60 | 45 |
| Infiltration | 75 | 70 | | | | |
| Det. Basin | 65 | 40 | 40 | 40 | 30 | 25 |
| Sand Filter | 75 | 50 | 60 | 75 | 55 | 30 |
| Wet Pond | 70 | 50 | | 70 | 55 | 50 |