

Table A5
 Donald C. Tillman Water Reclamation Plant
 Reasonable Potential Analyses and Limit Derivations
 (CA0056227, CI-5695)

| CTR# | Pollutant | MEC | CTR WQC=C | Basin Plan WQC Title 22 GWR=C | Lowest C | MEC>C | MEC>Title 22 GWR | RPA | CV |
|------|----------------------------|-------|-----------|-------------------------------|-------------|-------|------------------|--------------------|-----------|
| | Cadmium (Cd) | 2.7 | 4.9917489 | | 4.991748864 | NO | | NO, but need limit | 0.6 |
| 6 | Copper (Cu) | 47.7 | 26.117064 | | 26.11706405 | YES | | YES (MEC > C) | 0.2951234 |
| 7 | Lead (Pb) | 20.1 | 10.01 | | 10.00702199 | YES | | YES (MEC > C) | 0.9940343 |
| 8 | Mercury (Hg) | 0.53 | 0.051 | | 0.051 | YES | | YES (MEC > C) | 0.8413603 |
| 10 | Selenium (Se) | 6.7 | 5 | | 5 | YES | | YES (MEC > C) | 1.0570799 |
| 13 | Zinc (Zn) | 84 | 256.89499 | | 256.8949921 | NO | | NO, but need limit | 0.202697 |
| 14 | Cyanide (CN) | 15 | 5.2 | | 5.2 | YES | | YES (MEC > C) | 0.9344543 |
| 38 | Tetrachloroethylene | 31.4 | 8.85 | 5 | 5 | YES | YES | YES (MEC > C) | 3.7094445 |
| 68 | Bis(2-ethylhexyl)phthalate | 21.77 | 5.9 | 4 | 4 | YES | YES | YES (MEC > C) | 1.2723232 |
| 105 | Gamma-BHC | 0.075 | 0.063 | | 0.063 | YES | | YES (MEC > C) | 1.1735621 |

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| CTR# | Pollutant | ECA multiplier acute | ECA multiplier chronic | Water Quality-Based Effluent Limitation | | |
|------|----------------------------|----------------------|------------------------|---|--------------|-----------------------|
| | | | | ECAacute | ECACHRONICLE | LTAacute=ECA*ECAacute |
| | Cadmium (Cd) | 0.321083214 | 0.527433444 | 12.469853 | 4.991748864 | 4.003860482 |
| 6 | Copper (Cu) | 0.532367977 | 0.718484294 | 34.1131516 | 26.11706405 | 18.1607495 |
| 7 | Lead (Pb) | 0.205033929 | 0.374375265 | 256.797297 | 10.00702199 | 52.65215874 |
| 8 | Mercury (Hg) | 0.238329191 | 0.424242233 | NA | NA | NA |
| 10 | Selenium (Se) | 0.194069019 | 0.356538074 | NA | 5 | NA |
| 13 | Zinc (Zn) | 0.639797733 | 0.79451367 | 256.894992 | 256.8949921 | 164.3608336 |
| 14 | Cyanide (CN) | 0.216766512 | 0.392642047 | 22 | 5.2 | 4.76886326 |
| 38 | Tetrachloroethylene | 0.084557396 | 0.123126807 | NA | NA | NA |
| 68 | Bis(2-ethylhexyl)phthalate | 0.165155035 | 0.305435188 | NA | NA | NA |
| 105 | Gamma-BHC | 0.17701641 | 0.327165811 | 0.95 | NA | 0.16816559 |

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| CTR# | Pollutant | | | | | |
|------|----------------------------|---|------------------------|-----------------|-----------------|--------------------------|
| | | LT _A chronic=ECA*EC _A chronic | LT _A lowest | AMEL multiplier | MDEL multiplier | AMEL _a quatic |
| | Cadmium (Cd) | 2.632815295 | 2.6328153 | 1.552424614 | 3.114457427 | 4.087247268 |
| 6 | Copper (Cu) | 18.76470033 | 18.1607495 | 1.259434216 | 1.878399986 | 22.8722693 |
| 7 | Lead (Pb) | 3.746381503 | 3.7463815 | 1.93968757 | 4.877241559 | 7.266809634 |
| 8 | Mercury (Hg) | NA | NA | 1.790608149 | 4.19587712 | NA |
| 10 | Selenium (Se) | 1.782690372 | 1.78269037 | 2.000316019 | 5.152805974 | 3.565944107 |
| 13 | Zinc (Zn) | 204.1065829 | 164.360834 | 1.174899955 | 1.562993972 | 193.107536 |
| 14 | Cyanide (CN) | 2.041738646 | 2.04173865 | 1.881833364 | 4.613258717 | 3.842211905 |
| 38 | Tetrachloroethylene | NA | NA | 3.536338553 | 11.82628664 | NA |
| 68 | Bis(2-ethylhexyl)phthalate | NA | NA | 2.20126482 | 6.05491682 | NA |
| 105 | Gamma-BHC | NA | 0.16816559 | 2.110358279 | 5.649193764 | 0.354889644 |

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| CTR# | Pollutant | Human Health | | | Numerical Limitation | |
|------|----------------------------|--------------|------------|-------------|----------------------|---------------|
| | | MDELaquatic | AMELhh=ECA | MDELhh | Monthly Average | Daily Maximum |
| | Cadmium (Cd) | 8.199791151 | NA | NA | 4.087247268 | 8.199791151 |
| 6 | Copper (Cu) | 34.11315161 | NA | NA | 22.8722693 | 34.11315161 |
| 7 | Lead (Pb) | 18.27200757 | NA | NA | 7.266809634 | 18.27200757 |
| 8 | Mercury (Hg) | NA | 0.051 | 0.119506735 | 0.051 | 0.119506735 |
| 10 | Selenium (Se) | 9.185857597 | NA | NA | 3.565944107 | 9.185857597 |
| 13 | Zinc (Zn) | 256.8949921 | NA | NA | 193.107536 | 256.8949921 |
| 14 | Cyanide (CN) | 9.419068604 | 220000 | 539323.4794 | 3.842211905 | 9.419068604 |
| 38 | Tetrachloroethylene | NA | 8.85 | 29.59632828 | 8.85 | 29.59632828 |
| 68 | Bis(2-ethylhexyl)phthalate | NA | 5.9 | 16.22885575 | 5.9 | 16.22885575 |
| 105 | Gamma-BHC | 0.95 | 0.063 | 0.168643974 | 0.063 | 0.168643974 |

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| CTR# | Pollutant | Recommendation |
|-------------|----------------------------|---|
| | Cadmium (Cd) | Need Limit. Based on FW Aq Life |
| 6 | Copper (Cu) | Need Limit. Based on FW Aq Life |
| 7 | Lead (Pb) | Need Limit. Based on FW Aq Life |
| 8 | Mercury (Hg) | Need Limit. Based on Human Health Organisms only |
| 10 | Selenium (Se) | Need Limit. Receiving water conc. greater than effluent |
| 13 | Zinc (Zn) | Need Limit. Based on FW Aq Life |
| 14 | Cyanide (CN) | Need Limit. Based on FW Aq Life |
| 38 | Tetrachloroethylene | Need Limit for Effluent and Groundwater |
| 68 | Bis(2-ethylhexyl)phthalate | Need Limit for Effluent and Groundwater |
| 105 | Gamma-BHC | Need Limit. Based on Human Health Organisms only |