

Row Name **Sources Included**

| | |
|--------------|------------------------------|
| CR-Vault Row | 244-CR-Vault |
| C-101 Row | None |
| C-102 Row | None |
| C-103 Row | C-301 Catch Tank Pipeline |
| C-201 Row | None |

| CAS Number | Analyte Name | Concentration pCi/L (Rad) or mg/L (Non-rad) | Peak Year | Kd |
|------------|------------------------|--|-----------|---------|
| 3H | Tritium | 0 | | 0 |
| 14C | Carbon-14 | 4.42E-04 | 9781 | 0 |
| 59Ni | Nickel-59 | 0 | | 48 |
| 63Ni | Nickel-63 | 0 | | 48 |
| 60Co | Cobalt-60 | 0 | | 0.1 |
| 79Se | Selenium-79 | 0 | | 3.1 |
| 90Sr | Strontium-90 + D | 0 | | 16.1 |
| 93mNb | Niobium-93m | 0 | | 100 |
| 93Zr | Zirconium-93 | 0 | | 600 |
| 99Tc | Technetium-99 | 4.99E-02 | 10461 | 0 |
| 106Ru | Ruthenium-106 | 0 | | 1 |
| 113mCd | Cadmium-113m | 0 | | 1 |
| 126Sn | Tin-126 | 0 | | 1 |
| 125Sb | Antimony-125 | 0 | | 1 |
| 129I | Iodine-129 | 3.35E-10 | 12032 | 0.2 |
| 134Cs | Cesium-134 | 0 | | 25 |
| 137Cs | Cesium-137 + Daughters | 0 | | 25 |
| 151Sm | Samarium-151 | 0 | | 1 |
| 152Eu | Europium-152 | 0 | | 1 |
| 154Eu | Europium-154 | 0 | | 1 |
| 155Eu | Europium-155 | 0 | | 1 |
| 226Ra | Radium-226 + D | 0 | | 1 |
| 228Ra | Radium-228 + D | 0 | | 1 |
| 227Ac | Actinium-227 + D | 0 | | 67 |
| 229Th | Thorium-229 + D | 0 | | 3 |
| 232Th | Thorium-232 | 0 | | 3 |
| 231Pa | Protactinium-231 | 0 | | 550 |
| 232U | Uranium-232 | 0 | | 0.6 |
| 233U | Uranium-233 | 0 | | 0.6 |
| 234U | Uranium-234 | 0 | | 0.6 |
| 235U | Uranium-235 + D | 0 | | 0.6 |
| 236U | Uranium-236 | 0 | | 0.6 |
| 238U | Uranium-238 + D | 0 | | 0.6 |
| 237Np | Neptunium-237 + D | 0 | | 2 |
| 238Pu | Plutonium-238 | 0 | | 3 |
| 239Pu | Plutonium-239 | 0 | | 3 |
| 240Pu | Plutonium-240 | 0 | | 3 |
| 241Pu | Plutonium-241 + D | 0 | | 3 |
| 242Pu | Plutonium-242 | 0 | | 3 |
| 241Am | Americium-241 | 0 | | 3 |
| 243Am | Americium-243 + D | 0 | | 3 |
| 242Cm | Curium-242 | 0 | | 3 |
| 243Cm | Curium-243 | 0 | | 3 |
| 244Cm | Curium-244 | 0 | | 3 |
| 7429-90-5 | Aluminum | 0 | | 1 |
| 7664-41-7 | Ammonia -- (a) | 1.72E-08 | 10481 | 0.00093 |
| 7440-36-0 | Antimony | 0 | | 1 |

| | | | | |
|------------|--------------|----------|-------|------|
| 7440-38-2 | Arsenic | 0 | | 39 |
| 7440-39-3 | Barium | 0 | | 60 |
| 7440-41-7 | Beryllium | 0 | | 70 |
| 7440-69-9 | Bismuth | 1.75E-05 | 10481 | |
| 7440-42-8 | Boron | 0 | | 3 |
| 7440-43-9 | Cadmium | 0 | | 1.26 |
| 7440-70-2 | Calcium | 0 | | 4 |
| 7440-45-1 | Cerium | 4.09E-07 | 10481 | |
| 16887-00-6 | Chloride | 7.98E-07 | 10481 | |
| 18540-29-9 | Chromium | 1.88E-06 | 10481 | 0 |
| 7440-48-4 | Cobalt | 1.95E-10 | 12032 | 0.1 |
| 7440-50-8 | Copper | 0 | | 35 |
| 57-12-5 | Cyanide | 0 | | 9.9 |
| 16984-48-8 | Fluoride | 6.88E-06 | 10481 | |
| OHDEMAND | Hydroxide OH | 5.13E-04 | 10481 | |
| 7439-89-6 | Iron | 0 | | 25 |
| 7439-91-0 | Lanthanum | 2.24E-07 | 10481 | |
| 7439-92-1 | Lead | 0 | | 5.2 |
| 7439-93-2 | Lithium | 0 | | 300 |
| 7439-95-4 | Magnesium | 0 | | 4.5 |
| 7439-96-5 | Manganese | 0 | | 1 |
| 7439-97-6 | Mercury | 0 | | 5.2 |
| 7439-98-7 | Molybdenum | 0 | | 4 |
| 7440-00-8 | Neodymium | 3.41E-07 | 10481 | |
| 7440-02-0 | Nickel | 0 | | 48 |
| 14797-55-8 | Nitrate | 4.93E-05 | 10481 | 0 |
| 14797-65-0 | Nitrite | 1.96E-05 | 10481 | 0 |
| 338-70-5 | Oxalate | 1.10E-05 | 10481 | |
| 14265-44-2 | Phosphate | 8.12E-05 | 10481 | |
| 7440-10-0 | Praseodymium | 1.55E-07 | 10481 | |
| 7440-16-6 | Rhodium | 8.01E-08 | 10481 | |
| 7440-17-7 | Rubidium | 4.88E-07 | 10481 | |
| 7440-18-8 | Ruthenium | 0 | | 1 |
| 7782-49-2 | Selenium | 0 | | 5 |
| 7440-21-3 | Silicon | 0 | | 30 |
| 7440-22-4 | Silver | 0 | | 2.7 |
| 7440-23-5 | Sodium | 1.20E-04 | 10481 | |
| 7440-24-6 | Strontium | 0 | | 16.1 |
| 14808-79-8 | Sulfate | 5.63E-06 | 10481 | |
| 7440-25-7 | Tantalum | 4.75E-08 | 10481 | |
| 13494-80-9 | Tellurium | 8.59E-08 | 10481 | |
| 7440-28-0 | Thallium | 0 | | 71 |
| 7440-29-1 | Thorium | 0 | | 1 |
| 7440-32-6 | Titanium | 0 | | 1000 |
| 7440-33-7 | Tungsten | 2.63E-07 | 10481 | |
| 7440-61-1 | Uranium | 0 | | 0.6 |
| 7440-62-2 | Vanadium | 0 | | 50 |
| 7440-65-5 | Yttrium | 5.09E-08 | 10481 | |
| 7440-66-6 | Zinc | 0 | | 62 |
| 7440-67-7 | Zirconium | 0 | | 500 |

Kd Bin Half-Life

Years
0 12.33
0 5730
5 74999
5 100.1
0.1 5.2713
2 805000
5 28.149
5 16.13
5 1530000
0 211097
1 1.01736
1 14.1
1 246000
1 2.7299
0.2 15700000
5 2.0619
5 29.999
1 89.997
1 13.33
1 8.5919
1 4.68
1 1600
1 5.7498
5 21.769
2 7340
2 1405000000
5 32759
0.6 69.799
0.6 159198
0.6 245694
0.6 703700000
0.6 23420000
0.6 4468000000
2 2140000
2 87.697
2 24110
2 6563
2 14.35
2 373507
2 432.7
2 7370
2 0.44611
2 28.499
2 18.1
1 Infinity
0 Infinity
1 Infinity

Report Generated on: 5/25/2005, 12:52:46 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
241-C-301 TanksCFarm_MUST.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-C: 40
Compliance Monitoring Start Year :2001

5 Infinity
5 Infinity
5 Infinity
0 Infinity
2 Infinity
1 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0.1 Infinity
5 Infinity
5 Infinity
0 Infinity
0 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity
5 Infinity
1 Infinity
5 Infinity
5 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
1 Infinity
5 Infinity
5 Infinity
2 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
5 Infinity
1 Infinity
5 Infinity
0 Infinity
0.6 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity

| CAS Number | Analyte Name | Concentration pCi/L (Rad) or mg/L (Non-rad) | Peak Year | Kd |
|------------|------------------------|--|-----------|---------|
| 3H | Tritium | 0 | | 0 |
| 14C | Carbon-14 | 1.63E-03 | 9781 | 0 |
| 59Ni | Nickel-59 | 0 | | 48 |
| 63Ni | Nickel-63 | 0 | | 48 |
| 60Co | Cobalt-60 | 0 | | 0.1 |
| 79Se | Selenium-79 | 0 | | 3.1 |
| 90Sr | Strontium-90 + D | 0 | | 16.1 |
| 93mNb | Niobium-93m | 0 | | 100 |
| 93Zr | Zirconium-93 | 0 | | 600 |
| 99Tc | Technetium-99 | 1.84E-01 | 10461 | 0 |
| 106Ru | Ruthenium-106 | 0 | | 1 |
| 113mCd | Cadmium-113m | 0 | | 1 |
| 126Sn | Tin-126 | 0 | | 1 |
| 125Sb | Antimony-125 | 0 | | 1 |
| 129I | Iodine-129 | 1.24E-09 | 12032 | 0.2 |
| 134Cs | Cesium-134 | 0 | | 25 |
| 137Cs | Cesium-137 + Daughters | 0 | | 25 |
| 151Sm | Samarium-151 | 0 | | 1 |
| 152Eu | Europium-152 | 0 | | 1 |
| 154Eu | Europium-154 | 0 | | 1 |
| 155Eu | Europium-155 | 0 | | 1 |
| 226Ra | Radium-226 + D | 0 | | 1 |
| 228Ra | Radium-228 + D | 0 | | 1 |
| 227Ac | Actinium-227 + D | 0 | | 67 |
| 229Th | Thorium-229 + D | 0 | | 3 |
| 232Th | Thorium-232 | 0 | | 3 |
| 231Pa | Protactinium-231 | 0 | | 550 |
| 232U | Uranium-232 | 0 | | 0.6 |
| 233U | Uranium-233 | 0 | | 0.6 |
| 234U | Uranium-234 | 0 | | 0.6 |
| 235U | Uranium-235 + D | 0 | | 0.6 |
| 236U | Uranium-236 | 0 | | 0.6 |
| 238U | Uranium-238 + D | 0 | | 0.6 |
| 237Np | Neptunium-237 + D | 0 | | 2 |
| 238Pu | Plutonium-238 | 0 | | 3 |
| 239Pu | Plutonium-239 | 0 | | 3 |
| 240Pu | Plutonium-240 | 0 | | 3 |
| 241Pu | Plutonium-241 + D | 0 | | 3 |
| 242Pu | Plutonium-242 | 0 | | 3 |
| 241Am | Americium-241 | 0 | | 3 |
| 243Am | Americium-243 + D | 0 | | 3 |
| 242Cm | Curium-242 | 0 | | 3 |
| 243Cm | Curium-243 | 0 | | 3 |
| 244Cm | Curium-244 | 0 | | 3 |
| 7429-90-5 | Aluminum | 0 | | 1 |
| 7664-41-7 | Ammonia -- (a) | 6.34E-08 | 10481 | 0.00093 |
| 7440-36-0 | Antimony | 0 | | 1 |

| | | | | |
|------------|--------------|----------|-------|------|
| 7440-38-2 | Arsenic | 0 | | 39 |
| 7440-39-3 | Barium | 0 | | 60 |
| 7440-41-7 | Beryllium | 0 | | 70 |
| 7440-69-9 | Bismuth | 6.44E-05 | 10481 | |
| 7440-42-8 | Boron | 0 | | 3 |
| 7440-43-9 | Cadmium | 0 | | 1.26 |
| 7440-70-2 | Calcium | 0 | | 4 |
| 7440-45-1 | Cerium | 1.51E-06 | 10481 | |
| 16887-00-6 | Chloride | 2.94E-06 | 10481 | |
| 18540-29-9 | Chromium | 6.92E-06 | 10481 | 0 |
| 7440-48-4 | Cobalt | 7.17E-10 | 12032 | 0.1 |
| 7440-50-8 | Copper | 0 | | 35 |
| 57-12-5 | Cyanide | 0 | | 9.9 |
| 16984-48-8 | Fluoride | 2.53E-05 | 10481 | |
| OHDEMAND | Hydroxide OH | 1.89E-03 | 10481 | |
| 7439-89-6 | Iron | 0 | | 25 |
| 7439-91-0 | Lanthanum | 8.24E-07 | 10481 | |
| 7439-92-1 | Lead | 0 | | 5.2 |
| 7439-93-2 | Lithium | 0 | | 300 |
| 7439-95-4 | Magnesium | 0 | | 4.5 |
| 7439-96-5 | Manganese | 0 | | 1 |
| 7439-97-6 | Mercury | 0 | | 5.2 |
| 7439-98-7 | Molybdenum | 0 | | 4 |
| 7440-00-8 | Neodymium | 1.25E-06 | 10481 | |
| 7440-02-0 | Nickel | 0 | | 48 |
| 14797-55-8 | Nitrate | 1.82E-04 | 10481 | 0 |
| 14797-65-0 | Nitrite | 7.21E-05 | 10481 | 0 |
| 338-70-5 | Oxalate | 4.05E-05 | 10481 | |
| 14265-44-2 | Phosphate | 2.99E-04 | 10481 | |
| 7440-10-0 | Praseodymium | 5.71E-07 | 10481 | |
| 7440-16-6 | Rhodium | 2.95E-07 | 10481 | |
| 7440-17-7 | Rubidium | 1.80E-06 | 10481 | |
| 7440-18-8 | Ruthenium | 0 | | 1 |
| 7782-49-2 | Selenium | 0 | | 5 |
| 7440-21-3 | Silicon | 0 | | 30 |
| 7440-22-4 | Silver | 0 | | 2.7 |
| 7440-23-5 | Sodium | 4.42E-04 | 10481 | |
| 7440-24-6 | Strontium | 0 | | 16.1 |
| 14808-79-8 | Sulfate | 2.07E-05 | 10481 | |
| 7440-25-7 | Tantalum | 1.75E-07 | 10481 | |
| 13494-80-9 | Tellurium | 3.17E-07 | 10481 | |
| 7440-28-0 | Thallium | 0 | | 71 |
| 7440-29-1 | Thorium | 0 | | 1 |
| 7440-32-6 | Titanium | 0 | | 1000 |
| 7440-33-7 | Tungsten | 9.69E-07 | 10481 | |
| 7440-61-1 | Uranium | 0 | | 0.6 |
| 7440-62-2 | Vanadium | 0 | | 50 |
| 7440-65-5 | Yttrium | 1.87E-07 | 10481 | |
| 7440-66-6 | Zinc | 0 | | 62 |
| 7440-67-7 | Zirconium | 0 | | 500 |

Kd Bin Half-Life

Years
0 12.33
0 5730
5 74999
5 100.1
0.1 5.2713
2 805000
5 28.149
5 16.13
5 1530000
0 211097
1 1.01736
1 14.1
1 246000
1 2.7299
0.2 15700000
5 2.0619
5 29.999
1 89.997
1 13.33
1 8.5919
1 4.68
1 1600
1 5.7498
5 21.769
2 7340
2 1405000000
5 32759
0.6 69.799
0.6 159198
0.6 245694
0.6 703700000
0.6 23420000
0.6 4468000000
2 2140000
2 87.697
2 24110
2 6563
2 14.35
2 373507
2 432.7
2 7370
2 0.44611
2 28.499
2 18.1
1 Infinity
0 Infinity
1 Infinity

Report Generated on: 5/25/2005, 12:52:58 PM
Report Generated by H0098416 (David J. Watson)
Decision Management Tool Version 4.0.0.37
244-CR-Vault TanksCFarm_MUST.txt case02.stp
Major Assumptions Used:
Dilution factor for WMA-C: 40
Compliance Monitoring Start Year :2001

5 Infinity
5 Infinity
5 Infinity
0 Infinity
2 Infinity
1 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0.1 Infinity
5 Infinity
5 Infinity
0 Infinity
0 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity
5 Infinity
1 Infinity
5 Infinity
5 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
0 Infinity
1 Infinity
5 Infinity
5 Infinity
2 Infinity
0 Infinity
5 Infinity
0 Infinity
0 Infinity
0 Infinity
5 Infinity
1 Infinity
5 Infinity
0 Infinity
0.6 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity

| CAS Number | Analyte Name | Concentration pCi/L (Rad) or mg/L (Non-rad) | Peak Year | Kd | Kd Bin |
|------------|------------------------|--|-----------|------|--------|
| 3H | Tritium | 9.82E-05 | 2071 | 0 | 0 |
| 14C | Carbon-14 | 3.35E-03 | 2192 | 0 | 0 |
| 59Ni | Nickel-59 | 0 | | 48 | 5 |
| 63Ni | Nickel-63 | 0 | | 48 | 5 |
| 60Co | Cobalt-60 | 2.55E-16 | 2073 | 0.1 | 0.1 |
| 79Se | Selenium-79 | 0 | | 3.1 | 2 |
| 90Sr | Strontium-90 + D | 0 | | 16.1 | 5 |
| 93mNb | Niobium-93m | 0 | | 100 | 5 |
| 99Tc | Technetium-99 | 9.11E-04 | 5701 | 0 | 0 |
| 106Ru | Ruthenium-106 | 0 | | 1 | 1 |
| 113mCd | Cadmium-113m | 0 | | 1 | 1 |
| 126Sn | Tin-126 | 0 | | 1 | 1 |
| 125Sb | Antimony-125 | 0 | | 1 | 1 |
| 129I | Iodine-129 | 2.36E-08 | 12032 | 0.2 | 0.2 |
| 134Cs | Cesium-134 | 0 | | 25 | 5 |
| 137Cs | Cesium-137 + Daughters | 0 | | 25 | 5 |
| 151Sm | Samarium-151 | 0 | | 1 | 1 |
| 152Eu | Europium-152 | 0 | | 1 | 1 |
| 154Eu | Europium-154 | 0 | | 1 | 1 |
| 155Eu | Europium-155 | 0 | | 1 | 1 |
| 226Ra | Radium-226 + D | 0 | | 1 | 1 |
| 228Ra | Radium-228 + D | 0 | | 1 | 1 |
| 227Ac | Actinium-227 + D | 0 | | 67 | 5 |
| 232Th | Thorium-232 | 0 | | 3 | 2 |
| 231Pa | Protactinium-231 | 0 | | 550 | 5 |
| 232U | Uranium-232 | 0 | | 0.6 | 0.6 |
| 233U | Uranium-233 | 0 | | 0.6 | 0.6 |
| 234U | Uranium-234 | 0 | | 0.6 | 0.6 |
| 235U | Uranium-235 + D | 0 | | 0.6 | 0.6 |
| 236U | Uranium-236 | 0 | | 0.6 | 0.6 |
| 238U | Uranium-238 + D | 0 | | 0.6 | 0.6 |
| 237Np | Neptunium-237 + D | 0 | | 2 | 2 |
| 238Pu | Plutonium-238 | 0 | | 3 | 2 |
| 239Pu | Plutonium-239 | 0 | | 3 | 2 |
| 240Pu | Plutonium-240 | 0 | | 3 | 2 |
| 241Pu | Plutonium-241 + D | 0 | | 3 | 2 |
| 242Pu | Plutonium-242 | 0 | | 3 | 2 |
| 241Am | Americium-241 | 0 | | 3 | 2 |
| 243Am | Americium-243 + D | 0 | | 3 | 2 |
| 242Cm | Curium-242 | 0 | | 3 | 2 |
| 243Cm | Curium-243 | 0 | | 3 | 2 |
| 244Cm | Curium-244 | 0 | | 3 | 2 |
| 7429-90-5 | Aluminum | 0 | | 1 | 1 |
| 7440-69-9 | Bismuth | 1.69E-06 | 5711 | | 0 |
| 7440-70-2 | Calcium | 0 | | 4 | 5 |
| 16887-00-6 | Chloride | 1.24E-06 | 5711 | | 0 |
| 18540-29-9 | Chromium | 2.70E-07 | 5711 | 0 | 0 |

| | | | | | |
|------------|-----------|----------|------|------|---|
| 16984-48-8 | Fluoride | 2.83E-06 | 5711 | | 0 |
| 7439-89-6 | Iron | 0 | | 25 | 5 |
| 7439-97-6 | Mercury | 0 | | 5.2 | 5 |
| 7440-02-0 | Nickel | 0 | | 48 | 5 |
| 14797-55-8 | Nitrate | 8.06E-05 | 5711 | 0 | 0 |
| 14797-65-0 | Nitrite | 1.84E-06 | 5711 | 0 | 0 |
| 14265-44-2 | Phosphate | 1.92E-05 | 5711 | | 0 |
| 7440-21-3 | Silicon | 0 | | 30 | 5 |
| 7440-23-5 | Sodium | 5.36E-05 | 5711 | | 0 |
| 7440-24-6 | Strontium | 0 | | 16.1 | 5 |
| 7440-29-1 | Thorium | 0 | | 1 | 1 |
| 7440-67-7 | Zirconium | 0 | | 500 | 5 |

Half-Life

Years

Report Generated on: 5/25/2005, 12:53:08 PM

Report Generated by H0098416 (David J. Watson)

Decision Management Tool Version 4.0.0.37

12.33
5730 Pipe System Pipe System_C.txt case04.stp

74999

100.1

5.2713 **Major Assumptions Used:**

805000 Dilution factor for WMA-C: 40

28.149 Compliance Monitoring Start Year :2001

16.13

211097

1.01736

14.1

246000

2.7299

15700000

2.0619

29.999

89.997

13.33

8.5919

4.68

1600

5.7498

21.769

1405000000

32759

69.799

159198

245694

703700000

23420000

4468000000

2140000

87.697

24110

6563

14.35

373507

432.7

7370

0.44611

28.499

18.1

Infinity

Infinity

Infinity

Infinity

Infinity

| CAS Number | Analyte Name | Concentration pCi/L (Rad) or mg/L (Non-rad) | Peak Year | Kd |
|-------------------|------------------------|---|------------------|-----------|
| 3H | Tritium | 9.82E-05 | 2071 | 0 |
| 14C | Carbon-14 | 3.35E-03 | 2192 | 0 |
| 59Ni | Nickel-59 | 0 | | 48 |
| 63Ni | Nickel-63 | 0 | | 48 |
| 60Co | Cobalt-60 | 2.55E-16 | 2073 | 0.1 |
| 79Se | Selenium-79 | 0 | | 3.1 |
| 90Sr | Strontium-90 + D | 0 | | 16.1 |
| 93mNb | Niobium-93m | 0 | | 100 |
| 93Zr | Zirconium-93 | 0 | | 600 |
| 99Tc | Technetium-99 | 5.00E-02 | 10441 | 0 |
| 106Ru | Ruthenium-106 | 0 | | 1 |
| 113mCd | Cadmium-113m | 0 | | 1 |
| 126Sn | Tin-126 | 0 | | 1 |
| 125Sb | Antimony-125 | 0 | | 1 |
| 129I | Iodine-129 | 2.39E-08 | 12032 | 0.2 |
| 134Cs | Cesium-134 | 0 | | 25 |
| 137Cs | Cesium-137 + Daughters | 0 | | 25 |
| 151Sm | Samarium-151 | 0 | | 1 |
| 152Eu | Europium-152 | 0 | | 1 |
| 154Eu | Europium-154 | 0 | | 1 |
| 155Eu | Europium-155 | 0 | | 1 |
| 226Ra | Radium-226 + D | 0 | | 1 |
| 228Ra | Radium-228 + D | 0 | | 1 |
| 227Ac | Actinium-227 + D | 0 | | 67 |
| 229Th | Thorium-229 + D | 0 | | 3 |
| 232Th | Thorium-232 | 0 | | 3 |
| 231Pa | Protactinium-231 | 0 | | 550 |
| 232U | Uranium-232 | 0 | | 0.6 |
| 233U | Uranium-233 | 0 | | 0.6 |
| 234U | Uranium-234 | 0 | | 0.6 |
| 235U | Uranium-235 + D | 0 | | 0.6 |
| 236U | Uranium-236 | 0 | | 0.6 |
| 238U | Uranium-238 + D | 0 | | 0.6 |
| 237Np | Neptunium-237 + D | 0 | | 2 |
| 238Pu | Plutonium-238 | 0 | | 3 |
| 239Pu | Plutonium-239 | 0 | | 3 |
| 240Pu | Plutonium-240 | 0 | | 3 |
| 241Pu | Plutonium-241 + D | 0 | | 3 |
| 242Pu | Plutonium-242 | 0 | | 3 |
| 241Am | Americium-241 | 0 | | 3 |
| 243Am | Americium-243 + D | 0 | | 3 |
| 242Cm | Curium-242 | 0 | | 3 |
| 243Cm | Curium-243 | 0 | | 3 |
| 244Cm | Curium-244 | 0 | | 3 |
| 7429-90-5 | Aluminum | 0 | | 1 |
| 7664-41-7 | Ammonia -- (a) | 1.72E-08 | 10481 | 0.00093 |
| 7440-36-0 | Antimony | 0 | | 1 |

| | | | | |
|------------|--------------|----------|-------|------|
| 7440-38-2 | Arsenic | 0 | | 39 |
| 7440-39-3 | Barium | 0 | | 60 |
| 7440-41-7 | Beryllium | 0 | | 70 |
| 7440-69-9 | Bismuth | 1.78E-05 | 10411 | |
| 7440-42-8 | Boron | 0 | | 3 |
| 7440-43-9 | Cadmium | 0 | | 1.26 |
| 7440-70-2 | Calcium | 0 | | 4 |
| 7440-45-1 | Cerium | 4.09E-07 | 10481 | |
| 16887-00-6 | Chloride | 1.24E-06 | 5801 | |
| 18540-29-9 | Chromium | 1.92E-06 | 10371 | 0 |
| 7440-48-4 | Cobalt | 1.95E-10 | 12032 | 0.1 |
| 7440-50-8 | Copper | 0 | | 35 |
| 57-12-5 | Cyanide | 0 | | 9.9 |
| 16984-48-8 | Fluoride | 7.35E-06 | 10141 | |
| OHDEMAND | Hydroxide OH | 5.13E-04 | 10481 | |
| 7439-89-6 | Iron | 0 | | 25 |
| 7439-91-0 | Lanthanum | 2.24E-07 | 10481 | |
| 7439-92-1 | Lead | 0 | | 5.2 |
| 7439-93-2 | Lithium | 0 | | 300 |
| 7439-95-4 | Magnesium | 0 | | 4.5 |
| 7439-96-5 | Manganese | 0 | | 1 |
| 7439-97-6 | Mercury | 0 | | 5.2 |
| 7439-98-7 | Molybdenum | 0 | | 4 |
| 7440-00-8 | Neodymium | 3.41E-07 | 10481 | |
| 7440-02-0 | Nickel | 0 | | 48 |
| 14797-55-8 | Nitrate | 8.10E-05 | 5801 | 0 |
| 14797-65-0 | Nitrite | 1.99E-05 | 10411 | 0 |
| 338-70-5 | Oxalate | 1.10E-05 | 10481 | |
| 14265-44-2 | Phosphate | 8.43E-05 | 10291 | |
| 7440-10-0 | Praseodymium | 1.55E-07 | 10481 | |
| 7440-16-6 | Rhodium | 8.01E-08 | 10481 | |
| 7440-17-7 | Rubidium | 4.88E-07 | 10481 | |
| 7440-18-8 | Ruthenium | 0 | | 1 |
| 7782-49-2 | Selenium | 0 | | 5 |
| 7440-21-3 | Silicon | 0 | | 30 |
| 7440-22-4 | Silver | 0 | | 2.7 |
| 7440-23-5 | Sodium | 1.29E-04 | 10111 | |
| 7440-24-6 | Strontium | 0 | | 16.1 |
| 14808-79-8 | Sulfate | 5.63E-06 | 10481 | |
| 7440-25-7 | Tantalum | 4.75E-08 | 10481 | |
| 13494-80-9 | Tellurium | 8.59E-08 | 10481 | |
| 7440-28-0 | Thallium | 0 | | 71 |
| 7440-29-1 | Thorium | 0 | | 1 |
| 7440-32-6 | Titanium | 0 | | 1000 |
| 7440-33-7 | Tungsten | 2.63E-07 | 10481 | |
| 7440-61-1 | Uranium | 0 | | 0.6 |
| 7440-62-2 | Vanadium | 0 | | 50 |
| 7440-65-5 | Yttrium | 5.09E-08 | 10481 | |
| 7440-66-6 | Zinc | 0 | | 62 |
| 7440-67-7 | Zirconium | 0 | | 500 |

Kd Bin Half-Life

Years
0 12.33
0 5730
5 74999
5 100.1
0.1 5.2713
2 805000
5 28.149
5 16.13
5 1530000
0 211097
1 1.01736
1 14.1
1 246000
1 2.7299
0.2 15700000
5 2.0619
5 29.999
1 89.997
1 13.33
1 8.5919
1 4.68
1 1600
1 5.7498
5 21.769
2 7340
2 1405000000
5 32759
0.6 69.799
0.6 159198
0.6 245694
0.6 703700000
0.6 23420000
0.6 4468000000
2 2140000
2 87.697
2 24110
2 6563
2 14.35
2 373507
2 432.7
2 7370
2 0.44611
2 28.499
2 18.1
1 Infinity
0 Infinity
1 Infinity

| | | |
|---|---------------------|------------|
| Report Generated on: 6/13/2005, 1:30:51 PM | | |
| Report Generated by H0098416 (David J. Watson) | | |
| Decision Management Tool Version 4.0.0.37 | | |
| 241-C-301 | TanksCFarm_MUST.txt | case02.stp |
| Pipe System | Pipe System_C.txt | case04.stp |
| Major Assumptions Used: | | |
| Dilution factor for WMA-C: 40 | | |
| Compliance Monitoring Start Year :2001 | | |

Verified by John Middleton 6/15/05

5 Infinity
5 Infinity
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1 Infinity
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0 Infinity
0.6 Infinity
5 Infinity
0 Infinity
5 Infinity
5 Infinity