

Production Well Field Source Parameters- MU-2 Prod

Source Name: MU-2 Prod

Production Well Field Source

Location

X 0.7 km
Y 0.8 km
Z 9.1 m

Ore Zone

Ra Conc. in Ore 481 pCi/g
Emanation Fraction 0.25
Thickness 7.6 m
Density 1.89 g/cm³
Rn-222 Source 8.44E+13 pCi/d
Active Area 2.70E+05 m²

Process Water

Volume in Circulation 9.95E+05 L
Fraction of Rn 8.00E-01
Rate of Rn venting 0.01 /d
Treated water purge rate 1.70E+06 L/d
Rn-222 release from purge water 2.21E+04 Ci/yr
Rn-222 release from well venting 1.30E+02 Ci/yr

Ion-Exchange Columns

Column Volume 18500 L
Column unloadings Rate 0.5 /d
Porosity of Resin 0.4
Rn-222 release from ion exchange column 4.82E+01 Ci/yr

Total amount of Rn-222 released from Production Well 2.23E+04 Ci/yr

Save

Production Well Field Source Parameters- MU-3 Prod

Source Name: MU-3 Prod

Production Well Field Source ▼

Location

X km
 Y km
 Z m

Ore Zone

Ra Conc. in Ore pCi/g
 Emanation Fraction
 Thickness m
 Density g/cm³
 Rn-222 Source pCi/d
 Active Area m²

Process Water

Volume in Circulation L
 Fraction of Rn
 Rate of Rn venting /d
 Treated water purge rate L/d
 Rn-222 release from
 purge water Ci/yr
 Rn-222 release from
 well venting Ci/yr

Ion-Exchange Columns

Column Volume L
 Column unloadings Rate /d
 Porosity of Resin
 Rn-222 release from ion
 exchange column Ci/yr

Total amount of Rn-222 released from Production Well Ci/yr

Save

Production Well Field Source Parameters- MU-4 Prod

Source Name: MU-4 Prod

Production Well Field Source

Location

X 0.7 km
Y 0.8 km
Z 9.1 m

Ore Zone

Ra Conc. in Ore 481 pCi/g
Emanation Fraction 0.25
Thickness 7.6 m
Density 1.89 g/cm³
Rn-222 Source 7.60E+13 pCi/d
Active Area 2.43E+05 m²

Process Water

Volume in Circulation 7.96E+08 L
Fraction of Rn 0.8
Rate of Rn venting 0.01 /d
Treated water purge rate 1700000 L/d
Rn-222 release from purge water 2.45E+02 Ci/yr
Rn-222 release from well venting 1.15E+03 Ci/yr

Ion-Exchange Columns

Column Volume 18500 L
Column unloadings Rate 0.5 /d
Porosity of Resin 0.4
Rn-222 release from ion exchange column 5.34E-01 Ci/yr

Total amount of Rn-222 released from Production Well 1.39E+03 Ci/yr

Save

Production Well Field Source Parameters- MU-5 Prod

Source Name: MU-5 Prod

Production Well Field Source

Location

X km
 Y km
 Z m

Ore Zone

Ra Conc. in Ore pCi/g
 Emanation Fraction
 Thickness m
 Density g/cm³
 Rn-222 Source pCi/d
 Active Area m²

Process Water

Volume in Circulation L
 Fraction of Rn
 Rate of Rn venting /d
 Treated water purge rate L/d
 Rn-222 release from
 purge water Ci/yr
 Rn-222 release from
 well venting Ci/yr

Ion-Exchange Columns

Column Volume L
 Column unloadings Rate /d
 Porosity of Resin
 Rn-222 release from ion
 exchange column Ci/yr

Total amount of Rn-222 released from Production Well Ci/yr

Save