

Concentration of Ammoniacal_N in groundwater [mg/l]

At 30 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.06

Minimum 0.06

Maximum 0.06

Mean 0.06

Std. Dev. 7.16485E-009

Variance -5.13351E-017

At 100 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.06

Minimum 0.06

Maximum 0.06

Mean 0.06

Std. Dev. 6.17743E-009

Variance -3.81606E-017

At 300 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.06

Minimum 0.06

Maximum 0.06

Mean 0.06

Std. Dev. 6.39425E-009

Variance -4.08864E-017

At 1000 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.06

Minimum 0.06

Maximum 0.06

Mean 0.06

Std. Dev. 6.97204E-009

Variance -4.86094E-017

Concentration of Ammoniacal_N in groundwater [mg/l]

At infinity

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.06

Minimum 0.06

Maximum 0.06

Mean 0.06

Std. Dev. 7.16485E-009

Variance -5.13351E-017

Concentration of Cadmium in groundwater [mg/l]

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Cadmium in groundwater [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Chloride in groundwater [mg/l]

At 30 years

01% of values less than 30.2989

05% of values less than 32.5629

10% of values less than 34.1008

50% of values less than 41.3968

90% of values less than 53.5098

95% of values less than 58.3496

99% of values less than 66.1418

Minimum 29.0726

Maximum 81.6289

Mean 42.8189

Std. Dev. 7.92846

Variance 62.8605

At 100 years

01% of values less than 31.2357

05% of values less than 32.4129

10% of values less than 33.2361

50% of values less than 38.121

90% of values less than 47.3183

95% of values less than 51.2096

99% of values less than 59.9039

Minimum 30.0591

Maximum 76.0103

Mean 39.5906

Std. Dev. 6.10289

Variance 37.2453

At 300 years

01% of values less than 30.5784

05% of values less than 31.3579

10% of values less than 31.8485

50% of values less than 34.5883

90% of values less than 39.4524

95% of values less than 41.5054

99% of values less than 46.4373

Minimum 29.6842

Maximum 52.589

Mean 35.3838

Std. Dev. 3.29731

Variance 10.8723

At 1000 years

01% of values less than 29.3613

05% of values less than 29.6696

10% of values less than 29.8951

50% of values less than 31.1443

90% of values less than 32.5763

95% of values less than 33.5839

99% of values less than 36.131

Minimum 29.1693

Maximum 41.2635

Mean 31.2912

Std. Dev. 1.33045

Variance 1.77009

Concentration of Chloride in groundwater [mg/l]

At infinity

01% of values less than 29.0168

05% of values less than 29.1145

10% of values less than 29.2317

50% of values less than 30.2306

90% of values less than 31.1907

95% of values less than 31.3204

99% of values less than 31.3864

Minimum 29.0001

Maximum 31.3959

Mean 30.2211

Std. Dev. 0.701399

Variance 0.491961

Concentration of Copper in groundwater [mg/l]

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Copper in groundwater [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Mercury in groundwater [mg/l]

At 30 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

At 100 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

At 300 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

At 1000 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

Concentration of Mercury in groundwater [mg/l]

At infinity

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

Concentration of Naphthalene in groundwater [mg/l]

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Naphthalene in groundwater [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Toluene in groundwater [mg/l]

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Toluene in groundwater [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Zinc in groundwater [mg/l]

At 30 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.0405148

50% of values less than 0.0903446

90% of values less than 0.134053

95% of values less than 0.138946

99% of values less than 0.144073

Minimum 0.0300386

Maximum 0.144825

Mean 0.0883738

Std. Dev. 0.0337989

Variance 0.00114236

At 100 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.0405148

50% of values less than 0.0903446

90% of values less than 0.134053

95% of values less than 0.138946

99% of values less than 0.144073

Minimum 0.0300386

Maximum 0.144825

Mean 0.0883738

Std. Dev. 0.0337989

Variance 0.00114236

At 300 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.0405148

50% of values less than 0.0903446

90% of values less than 0.134053

95% of values less than 0.138946

99% of values less than 0.144073

Minimum 0.0300386

Maximum 0.144825

Mean 0.0883738

Std. Dev. 0.0337989

Variance 0.00114236

At 1000 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.0405148

50% of values less than 0.0905411

90% of values less than 0.134053

95% of values less than 0.138946

99% of values less than 0.144073

Minimum 0.0300386

Maximum 0.144825

Mean 0.0884619

Std. Dev. 0.0338278

Variance 0.00114432

Concentration of Zinc in groundwater [mg/l]

At infinity

01% of values less than 0.0315751

05% of values less than 0.0373597

10% of values less than 0.043025

50% of values less than 0.0929522

90% of values less than 0.135479

95% of values less than 0.14071

99% of values less than 0.146304

Minimum 0.0300535

Maximum 0.154236

Mean 0.0904591

Std. Dev. 0.0339219

Variance 0.0011507

Calculation Settings

Number of iterations: 1001

Results calculated using sampled PDFs

Full Calculation

Clay Liner:

Retarded values used for simulation

Biodegradation

Unsaturated Pathway:

Retarded values used for simulation

Biodegradation

Saturated Vertical Pathway:

No Vertical Pathway

Aquifer Pathway:

Retarded values used for simulation

Biodegradation

Timeslices at: 30, 100, 300, 1000

Decline in Contaminant Concentration in Leachate

Ammoniacal_N c (kg/l): 0.59	Non-Volatile m (kg/l): 0
Cadmium c (kg/l): 0.1589	Non-Volatile m (kg/l): 0.0823
Chloride c (kg/l): 0.2919	Non-Volatile m (kg/l): 0.0298
Copper c (kg/l): -0.0488	Non-Volatile m (kg/l): 0.0664
Mercury c (kg/l): 0.1643	Non-Volatile m (kg/l): 0.0767
Naphthalene Half life (years): 10	Volatile
Toluene Half life (years): 10	Volatile
Zinc c (kg/l): 0.0561	Non-Volatile m (kg/l): 0.0403

Contaminant Half-lives (years)

Clay Liner:

Ammoniacal_N	SINGLE(6)
Cadmium	SINGLE(1e+009)
Chloride	SINGLE(1e+009)
Copper	SINGLE(1e+009)
Mercury	SINGLE(1e+009)
Naphthalene	SINGLE(0.69)
Toluene	UNIFORM(0.16,0.57)
Zinc	SINGLE(1e+009)

Unsaturated Pathway:

Ammoniacal_N	SINGLE(6)
Cadmium	SINGLE(1e+009)
Chloride	SINGLE(1e+009)
Copper	SINGLE(1e+009)
Mercury	SINGLE(1e+009)
Naphthalene	SINGLE(0.06)
Toluene	UNIFORM(0.14,1.5)
Zinc	SINGLE(1e+009)

Aquifer Pathway:

Ammoniacal_N	SINGLE(6)
Cadmium	SINGLE(6e-005)
Chloride	SINGLE(1e+009)
Copper	LOGTRIANGULAR(0.009,0.02125,0.076)
Mercury	SINGLE(1e+009)
Naphthalene	SINGLE(0.387)
Toluene	UNIFORM(0.1,0.2)
Zinc	SINGLE(1e+009)

Background Concentrations of Contaminants

Justification for Contaminant Properties

WAC Soil Testing and Leachate tests at Chadwich Lane

All units in milligrams per litre

Ammoniacal_N	SINGLE(0.06)
Chloride	UNIFORM(29,31.4)
Mercury	UNIFORM(5e-005,0.00024)
Zinc	UNIFORM(0.03,0.145)

Phase: Phase 1**Infiltration Information**

Cap design infiltration (mm/year):	SINGLE(50)
Infiltration to waste (mm/year):	SINGLE(160)
Infiltration to grassland (mm/year):	SINGLE(50)
End of filling (years from start of waste deposit):	10
Start of cap degradation (years from end of waste deposit):	100
End of cap degradation (years from end of waste deposit):	1000

Justification for Specified Infiltration

Based on ESID and Met Office Data

Duration of management control (years from the start of waste disposal): 18

Cell dimensions

Cell width (m):	500
Cell length (m):	750
Cell top area (ha):	39.375
Cell base area (ha):	37.5
Number of cells:	1
Total base area (ha):	37.5
Total top area (ha):	39.375
Head of Leachate when surface water breakout occurs (m)	SINGLE(17)
Waste porosity (fraction)	SINGLE(0.1)
Final waste thickness (m):	TRIANGULAR(17,30,43)
Field capacity (fraction):	SINGLE(0.3)
Waste dry density (kg/l)	SINGLE(2)

Justification for Landfill Geometry

Based on HRA 2 and HRA 3

Source concentrations of contaminants*All units in milligrams per litre*

Declining source term

Ammoniacal_N	LOGTRIANGULAR(0.1,0.6,1.6) <i>Data are spot measurements of Leachate Quality</i>
Cadmium	LOGTRIANGULAR(0.0001,0.0016,0.004) <i>Substance to be treated as List 1</i>
Chloride	LOGTRIANGULAR(0.01,19.1,160) <i>Data are spot measurements of Leachate Quality</i>
Copper	LOGTRIANGULAR(0.009,0.016,0.076) <i>Data are spot measurements of Leachate Quality</i>
Mercury	LOGTRIANGULAR(1e-005,4.5e-005,0.0001) <i>Substance to be treated as List 1</i>
Naphthalene	LOGTRIANGULAR(0.01,0.1,0.2) <i>Substance to be treated as List 1</i>
Toluene	LOGTRIANGULAR(0.01,0.05,0.15) <i>Substance to be treated as List 1</i>
Zinc	LOGTRIANGULAR(0.01,0.023,0.4) <i>Data are spot measurements of Leachate Quality</i>

Justification for Species Concentration in Leachate

Based on Half life degradation rates as per EA report on ammonia and Toluene, Naphthalene

Drainage Information

Fixed Head.

Head on EBS is given as (m): SINGLE(1)

Justification for Specified Head

1metre limit assumed above geological barrier

Barrier Information

There is a single clay barrier

Justification for Engineered Barrier Type

1 metre geological barrier

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	SINGLE(1.9)
Pathway moisture content (fraction):	UNIFORM(0.19,0.2)

Justification for Clay: Liner Thickness

CQA Design Specification

Hydraulic conductivity of liner (m/s):	TRIANGULAR(1e-009,1e-008,1e-007)
Pathway longitudinal dispersivity (m):	SINGLE(0.1)

Justification for Clay: Hydraulics Properties

Source Evaluation Testing on adjoining phase

Retardation parameters for clay liner

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(7.3,8.5)
Cadmium	SINGLE(222.2)
Chloride	SINGLE(0)
Copper	SINGLE(126.8)
Mercury	SINGLE(3835.5)
Naphthalene	LOGTRIANGULAR(488,1102,2309)
Toluene	LOGTRIANGULAR(57,130,272)
Zinc	SINGLE(20.7)

Justification for Liner Kd Values by Species

EA 2003 and USEPA1999

Sherwood Sandstone pathway parameters*Modelled as unsaturated pathway*

Pathway length (m):	TRIANGULAR(1,6,10)
Flow Model:	porous medium
Pathway moisture content (fraction):	UNIFORM(0.15,0.2)
Pathway Density (kg/l):	SINGLE(1.9)

Justification for Unsat Zone Geometry

Based on groundwater level monitoring Appendix HRA 4 and Drawing HRA 3 [CHANGED]

Pathway hydraulic conductivity values (m/s):	TRIANGULAR(1.95e-005,2.46e-005,0.0001007)
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Justification for Unsat Zone Hydraulics Properties

Site investigations Appendices 1-3

Pathway longitudinal dispersivity (m):	UNIFORM(0.05,0.13)
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Justification for Unsat Zone Dispersion Properties

10% of pathway length

Retardation parameters for Sherwood Sandstone pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	LOGUNIFORM(0.43,1.79)
Cadmium	SINGLE(240)
Chloride	SINGLE(0)
Copper	SINGLE(295)
Mercury	SINGLE(450)
Naphthalene	LOGTRIANGULAR(488,1102,2309)
Toluene	LOGTRIANGULAR(57,130,272)
Zinc	LOGTRIANGULAR(1.1,200,600)

Justification for Kd Values by Species

EA2003 and USEPA 1999

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(1000,1200)
Pathway width (m):	SINGLE(200)

pathway parameters

No Vertical Pathway

Sherwood Sandstone pathway parameters*Modelled as aquifer pathway.*

Mixing zone (m): SINGLE(50)

Justification for Aquifer Geometry

HRA 2

Pathway regional gradient (-): SINGLE(0.0143)

Pathway hydraulic conductivity values (m/s): UNIFORM(4.6e-006,8e-006)

Pathway porosity (fraction): SINGLE(0.2)

Justification for Aquifer Hydraulics Properties

Appendices HRA1-3

Pathway longitudinal dispersivity (m): SINGLE(60)

Pathway transverse dispersivity (m): SINGLE(18)

Justification for Aquifer Dispersion Details

10% of pathway length and 3% transverse [CHANGED]

*Retardation parameters for Sherwood Sandstone pathway**Modelled as aquifer pathway.*

Uncertainty in Kd (l/kg):

Ammoniacal_N UNIFORM(0.43,1.79)

Cadmium LOGTRIANGULAR(3.7,74,1500)

Chloride SINGLE(0)

Copper SINGLE(295)

Mercury SINGLE(450)

Naphthalene LOGTRIANGULAR(488,1102,2309)

Toluene LOGTRIANGULAR(57,130,272)

Zinc LOGTRIANGULAR(1.1,200,600)

Justification for Aquifer Kd Values by Species

EA 2003 and USEPA 1999

Pathway Density (kg/l): SINGLE(1.9)

Phase: Phase 1*Concentration of Ammoniacal_N at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.06

Minimum 0.06

Maximum 0.06

Mean 0.06

Std. Dev. 3.34981E-009

Variance 2.86205E-017

At 100 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.0600001

50% of values less than 0.0600007

90% of values less than 0.0600042

95% of values less than 0.0600072

99% of values less than 0.0600134

Minimum 0.06

Maximum 0.0600771

Mean 0.0600018

Std. Dev. 3.89704E-006

Variance 1.51869E-011

At 300 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.0600002

99% of values less than 0.0600048

Minimum 0.06

Maximum 0.0600188

Mean 0.0600001

Std. Dev. 9.92319E-007

Variance 9.84696E-013

At 1000 years

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.0600015

Minimum 0.06

Maximum 0.0600069

Mean 0.06

Std. Dev. 4.07526E-007

Variance 1.66077E-013

Phase: Phase 1*Concentration of Ammoniacal_N at Phase Monitor Well [mg/l]*

At infinity

01% of values less than 0.06

05% of values less than 0.06

10% of values less than 0.06

50% of values less than 0.06

90% of values less than 0.06

95% of values less than 0.06

99% of values less than 0.0600001

Minimum 0.06

Maximum 0.0600025

Mean 0.06

Std. Dev. 1.07242E-007

Variance 1.15009E-014

Phase: Phase 1*Concentration of Cadmium at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1

Concentration of Cadmium at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Chloride at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 31.1898

05% of values less than 32.3091

10% of values less than 32.9758

50% of values less than 37.498

90% of values less than 45.6531

95% of values less than 48.8677

99% of values less than 55.0578

Minimum 29.9762

Maximum 64.8847

Mean 38.6451

Std. Dev. 5.24113

Variance 27.4694

At 100 years

01% of values less than 30.4556

05% of values less than 31.1117

10% of values less than 31.6413

50% of values less than 34.1611

90% of values less than 38.4617

95% of values less than 39.9257

99% of values less than 43.1935

Minimum 29.634

Maximum 48.3406

Mean 34.696

Std. Dev. 2.75048

Variance 7.56513

At 300 years

01% of values less than 30.0127

05% of values less than 30.5335

10% of values less than 30.8859

50% of values less than 32.691

90% of values less than 35.3718

95% of values less than 36.3107

99% of values less than 38.8445

Minimum 29.383

Maximum 41.6702

Mean 32.9846

Std. Dev. 1.83366

Variance 3.36233

At 1000 years

01% of values less than 29.2724

05% of values less than 29.4809

10% of values less than 29.6804

50% of values less than 30.7903

90% of values less than 31.905

95% of values less than 32.3121

99% of values less than 33.758

Minimum 29.153

Maximum 37.3428

Mean 30.8484

Std. Dev. 0.973861

Variance 0.948405

Phase: Phase 1*Concentration of Chloride at Phase Monitor Well [mg/l]*

At infinity

01% of values less than 29.0168

05% of values less than 29.1145

10% of values less than 29.2317

50% of values less than 30.2306

90% of values less than 31.1907

95% of values less than 31.3204

99% of values less than 31.3864

Minimum 29.0001

Maximum 31.3959

Mean 30.2211

Std. Dev. 0.701395

Variance 0.491955

Phase: Phase 1*Concentration of Copper at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1

Concentration of Copper at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Mercury at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

At 100 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

At 300 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

At 1000 years

01% of values less than 5.17396E-005

05% of values less than 6.03909E-005

10% of values less than 7.02368E-005

50% of values less than 0.000147989

90% of values less than 0.000219549

95% of values less than 0.000228954

99% of values less than 0.000238243

Minimum 5.01392E-005

Maximum 0.000239936

Mean 0.000146638

Std. Dev. 5.41572E-005

Variance 2.933E-009

Phase: Phase 1*Concentration of Mercury at Phase Monitor Well [mg/l]*

At infinity

01% of values less than 5.25295E-005

05% of values less than 6.11922E-005

10% of values less than 7.07056E-005

50% of values less than 0.0001493

90% of values less than 0.000220022

95% of values less than 0.00023039

99% of values less than 0.000239383

Minimum 5.0145E-005

Maximum 0.000244392

Mean 0.000147616

Std. Dev. 5.41793E-005

Variance 2.93539E-009

Phase: Phase 1*Concentration of Naphthalene at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1

Concentration of Naphthalene at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Toluene at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1

Concentration of Toluene at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Zinc at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.0405148

50% of values less than 0.0903446

90% of values less than 0.134053

95% of values less than 0.138946

99% of values less than 0.144073

Minimum 0.0300386

Maximum 0.144825

Mean 0.0883738

Std. Dev. 0.0337989

Variance 0.00114236

At 100 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.0405148

50% of values less than 0.0903446

90% of values less than 0.134053

95% of values less than 0.138946

99% of values less than 0.144073

Minimum 0.0300386

Maximum 0.144825

Mean 0.0883738

Std. Dev. 0.0337989

Variance 0.00114236

At 300 years

01% of values less than 0.0314495

05% of values less than 0.0351241

10% of values less than 0.040564

50% of values less than 0.0905411

90% of values less than 0.134117

95% of values less than 0.139321

99% of values less than 0.144105

Minimum 0.0300386

Maximum 0.144825

Mean 0.0884418

Std. Dev. 0.0338094

Variance 0.00114308

At 1000 years

01% of values less than 0.0314495

05% of values less than 0.0360717

10% of values less than 0.0416521

50% of values less than 0.0944719

90% of values less than 0.137763

95% of values less than 0.143168

99% of values less than 0.178847

Minimum 0.0300386

Maximum 0.212763

Mean 0.0924786

Std. Dev. 0.0364651

Variance 0.0013297

Phase: Phase 1

Concentration of Zinc at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0.0315442

05% of values less than 0.0351255

10% of values less than 0.0408061

50% of values less than 0.0903529

90% of values less than 0.134478

95% of values less than 0.139322

99% of values less than 0.144075

Minimum 0.0300387

Maximum 0.146165

Mean 0.0884984

Std. Dev. 0.0338179

Variance 0.00114365

Approx. time to Peak Conc. Ammoniacal_N at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 190

90% of values less than 232

95% of values less than 282

99% of values less than 2050

Minimum 0

Maximum 2050

Mean 226.187

Std. Dev. 396.399

Variance 157132

Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Chloride at Offsite Compliance Point [years]

01% of values less than 43

05% of values less than 43

10% of values less than 43

50% of values less than 47

90% of values less than 52

95% of values less than 52

99% of values less than 70

Minimum 43

Maximum 86

Mean 48.6424

Std. Dev. 4.25088

Variance 18.07

Approx. time to Peak Conc. Copper at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Mercury at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 20000

90% of values less than 20000

95% of values less than 20000

99% of values less than 20000

Minimum 0

Maximum 20000

Mean 12427.6

Std. Dev. 9705.72

Variance 9.4201E+007

Approx. time to Peak Conc. Naphthalene at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Toluene at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Zinc at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 0

10% of values less than 1024

50% of values less than 6728

90% of values less than 20000

95% of values less than 20000

99% of values less than 20000

Minimum 0

Maximum 20000

Mean 8703.7

Std. Dev. 6962.54

Variance 4.8477E+007

Phase: Phase 1*Approx. time to Peak Conc. Ammoniacal_N at Phase Monitor Well [years]*

01% of values less than 70

05% of values less than 70

10% of values less than 78

50% of values less than 86

90% of values less than 128

95% of values less than 156

99% of values less than 232

Minimum 64

Maximum 1024

Mean 95.3896

Std. Dev. 42.2113

Variance 1781.8

Approx. time to Peak Conc. Cadmium at Phase Monitor Well [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Chloride at Phase Monitor Well [years]

01% of values less than 21

05% of values less than 21

10% of values less than 21

50% of values less than 21

90% of values less than 21

95% of values less than 21

99% of values less than 26

Minimum 21

Maximum 43

Mean 21.1189

Std. Dev. 0.972036

Variance 0.944853

Approx. time to Peak Conc. Copper at Phase Monitor Well [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Approx. time to Peak Conc. Mercury at Phase Monitor Well [years]*

01% of values less than 0

05% of values less than 20000

10% of values less than 20000

50% of values less than 20000

90% of values less than 20000

95% of values less than 20000

99% of values less than 20000

Minimum 0

Maximum 20000

Mean 19420.6

Std. Dev. 3356.18

Variance 1.12639E+007

Approx. time to Peak Conc. Naphthalene at Phase Monitor Well [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Toluene at Phase Monitor Well [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Zinc at Phase Monitor Well [years]

01% of values less than 928

05% of values less than 1131

10% of values less than 1249

50% of values less than 3046

90% of values less than 9056

95% of values less than 12189

99% of values less than 20000

Minimum 761

Maximum 20000

Mean 4321.1

Std. Dev. 3784.46

Variance 1.43221E+007

Phase: Phase 1*Approx. time to Peak Conc. Ammoniacal_N at Base of Unsaturated Zone [years]*

01% of values less than 57

05% of values less than 57

10% of values less than 64

50% of values less than 70

90% of values less than 105

95% of values less than 128

99% of values less than 210

Minimum 52

Maximum 1000

Mean 79.3207

Std. Dev. 40.313

Variance 1625.14

Approx. time to Peak Conc. Cadmium at Base of Unsaturated Zone [years]

01% of values less than 5519

05% of values less than 7428

10% of values less than 7428

50% of values less than 9999

90% of values less than 13458

95% of values less than 16406

99% of values less than 20000

Minimum 4527

Maximum 20000

Mean 10902.2

Std. Dev. 2953.62

Variance 8.72387E+006

Approx. time to Peak Conc. Chloride at Base of Unsaturated Zone [years]

01% of values less than 19

05% of values less than 19

10% of values less than 19

50% of values less than 19

90% of values less than 19

95% of values less than 19

99% of values less than 19

Minimum 19

Maximum 39

Mean 19.05

Std. Dev. 0.73178

Variance 0.535502

Approx. time to Peak Conc. Copper at Base of Unsaturated Zone [years]

01% of values less than 4999

05% of values less than 6094

10% of values less than 6728

50% of values less than 9999

90% of values less than 14859

95% of values less than 18114

99% of values less than 20000

Minimum 4100

Maximum 20000

Mean 10594.5

Std. Dev. 3255.29

Variance 1.05969E+007

Approx. time to Peak Conc. Mercury at Base of Unsaturated Zone [years]

01% of values less than 0

05% of values less than 20000

10% of values less than 20000

50% of values less than 20000

90% of values less than 20000

95% of values less than 20000

Phase: Phase 1*Approx. time to Peak Conc. Mercury at Base of Unsaturated Zone [years]*

01% of values less than 0

05% of values less than 20000

10% of values less than 20000

50% of values less than 20000

90% of values less than 20000

95% of values less than 20000

99% of values less than 20000

Minimum 0

Maximum 20000

Mean 19600.4

Std. Dev. 2800.03

Variance 7.84016E+006

Approx. time to Peak Conc. Naphthalene at Base of Unsaturated Zone [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Toluene at Base of Unsaturated Zone [years]

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Approx. time to Peak Conc. Zinc at Base of Unsaturated Zone [years]

01% of values less than 624

05% of values less than 624

10% of values less than 624

50% of values less than 1681

90% of values less than 8202

95% of values less than 9999

99% of values less than 16406

Minimum 624

Maximum 20000

Mean 3418.35

Std. Dev. 3454.49

Variance 1.19335E+007

Phase: Phase 1*Concentration of Ammoniacal_N at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 3.01213E-010

90% of values less than 7.84476E-007

95% of values less than 2.04321E-006

99% of values less than 6.15609E-006

Minimum 0

Maximum 1.57341E-005

Mean 3.57207E-007

Std. Dev. 1.28962E-006

Variance 1.66312E-012

At 100 years

01% of values less than 0

05% of values less than 2.20428E-011

10% of values less than 1.06894E-009

50% of values less than 2.01324E-007

90% of values less than 2.69244E-005

95% of values less than 0.000105676

99% of values less than 0.000368785

Minimum 0

Maximum 0.00140407

Mean 1.87381E-005

Std. Dev. 8.13378E-005

Variance 6.61584E-009

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 3.80411E-018

90% of values less than 3.23296E-013

95% of values less than 2.04802E-006

99% of values less than 9.33232E-005

Minimum 0

Maximum 0.000441711

Mean 3.39598E-006

Std. Dev. 2.41474E-005

Variance 5.83097E-010

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 1.15453E-016

90% of values less than 1.15044E-015

95% of values less than 5.37387E-015

99% of values less than 3.33069E-005

Minimum 0

Maximum 0.000207403

Mean 1.13442E-006

Std. Dev. 1.13274E-005

Variance 1.2831E-010

Phase: Phase 1

Concentration of Ammoniacal_N at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 6.502E-006

Minimum 0

Maximum 5.25774E-005

Mean 2.15711E-007

Std. Dev. 2.42882E-006

Variance 5.89916E-012

Phase: Phase 1*Concentration of Cadmium at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Cadmium at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 8.66155E-006

05% of values less than 1.21583E-005

10% of values less than 1.48647E-005

50% of values less than 4.14134E-005

90% of values less than 0.000140009

95% of values less than 0.000223464

99% of values less than 0.000474851

Minimum 6.87617E-015

Maximum 0.00114882

Mean 7.00823E-005

Std. Dev. 9.62866E-005

Variance 9.2711E-009

Phase: Phase 1*Concentration of Chloride at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 2.08927

05% of values less than 3.19956

10% of values less than 4.45867

50% of values less than 11.6433

90% of values less than 24.4369

95% of values less than 28.4982

99% of values less than 36.3964

Minimum 0.632397

Maximum 61.0372

Mean 13.1779

Std. Dev. 7.98987

Variance 63.838

At 100 years

01% of values less than 1.73213

05% of values less than 2.6721

10% of values less than 3.64786

50% of values less than 9.35613

90% of values less than 19.2239

95% of values less than 22.5367

99% of values less than 28.7365

Minimum 0.495458

Maximum 41.8581

Mean 10.5409

Std. Dev. 6.18255

Variance 38.2239

At 300 years

01% of values less than 0.982692

05% of values less than 1.57464

10% of values less than 2.12056

50% of values less than 5.4341

90% of values less than 11.4549

95% of values less than 13.5865

99% of values less than 19.2053

Minimum 0.265105

Maximum 25.8395

Mean 6.24773

Std. Dev. 3.84392

Variance 14.7757

At 1000 years

01% of values less than 0.0955675

05% of values less than 0.202474

10% of values less than 0.270269

50% of values less than 0.841641

90% of values less than 2.44264

95% of values less than 3.67855

99% of values less than 7.4069

Minimum 0.0252142

Maximum 16.8219

Mean 1.25727

Std. Dev. 1.50085

Variance 2.25254

Phase: Phase 1*Concentration of Chloride at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 5.92494E-010

05% of values less than 1.06581E-009

10% of values less than 1.48845E-009

50% of values less than 4.22925E-009

90% of values less than 9.48556E-009

95% of values less than 1.36295E-008

99% of values less than 2.06311E-005

Minimum 0

Maximum 0.0405012

Mean 9.46608E-005

Std. Dev. 0.00171452

Variance 2.9396E-006

Phase: Phase 1*Concentration of Copper at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 1.84906E-013

Mean 1.8488E-016

Std. Dev. 5.84432E-015

Variance 3.41561E-029

Phase: Phase 1

Concentration of Copper at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 2.68852E-005

05% of values less than 3.32162E-005

10% of values less than 3.91324E-005

50% of values less than 0.000121508

90% of values less than 0.000887808

95% of values less than 0.00291261

99% of values less than 0.00776922

Minimum 3.13681E-016

Maximum 0.0199472

Mean 0.000566786

Std. Dev. 0.00157722

Variance 2.48763E-006

Phase: Phase 1*Concentration of Mercury at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Mercury at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 0

05% of values less than 2.36293E-012

10% of values less than 7.38335E-009

50% of values less than 1.97298E-006

90% of values less than 1.09361E-005

95% of values less than 1.34503E-005

99% of values less than 1.81813E-005

Minimum 0

Maximum 2.65923E-005

Mean 3.80297E-006

Std. Dev. 4.60213E-006

Variance 2.11796E-011

Phase: Phase 1*Concentration of Naphthalene at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1

Concentration of Naphthalene at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Toluene at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1

Concentration of Toluene at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Zinc at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0

95% of values less than 0

99% of values less than 3.8317E-017

Minimum 0

Maximum 1.26842E-014

Mean 2.63344E-017

Std. Dev. 4.84569E-016

Variance 2.34807E-031

At 100 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 5.30535E-013

95% of values less than 2.63534E-009

99% of values less than 3.40969E-006

Minimum 0

Maximum 5.59334E-005

Mean 2.41763E-007

Std. Dev. 2.57133E-006

Variance 6.61176E-012

At 300 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 0

90% of values less than 0.0167852

95% of values less than 0.0531856

99% of values less than 0.0941982

Minimum 0

Maximum 0.135708

Mean 0.00601114

Std. Dev. 0.0188218

Variance 0.000354259

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 0

50% of values less than 2.32582E-005

90% of values less than 0.138204

95% of values less than 0.171777

99% of values less than 0.212558

Minimum 0

Maximum 0.277568

Mean 0.0446412

Std. Dev. 0.0616163

Variance 0.00379657

Phase: Phase 1*Concentration of Zinc at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 2.02878E-009

05% of values less than 2.6458E-009

10% of values less than 3.15938E-009

50% of values less than 5.71357E-009

90% of values less than 1.44282E-006

95% of values less than 3.11363E-005

99% of values less than 0.00388616

Minimum 1.48509E-009

Maximum 0.0171122

Mean 0.00011331

Std. Dev. 0.000961989

Variance 9.25424E-007