INTEGRATED WASTE MANAGEMENT FACILITY AT HOLLYWOOD CIRCULAR ECONOMY CAMPUS

Environmental Impact Assessment Report Volume IV: Hydrogeological Assessment

MDR1492Rp0006d
F01
21st October 2022

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INTEGRATED WASTE MANAGEMENT FACILITY AT HOLLYWOOD CIRCULAR ECONOMY CAMPUS

Hydrogeological Assessment – Part 2 LandSim Report

MDR1492ARp00015
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21st October 2022

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1 INTRODUCTION

1.1 Preamble

Integrated Materials Solutions Limited Partnership (IMS) is seeking planning permission and an EPA licence review for landfilling of a mixture of non-hazardous and inert wastes at a proposed Circular Economy Campus and Integrated Waste Management Facility at the existing inert landfill facility at Hollywood Great, Nag's Head, Naul, Co. Dublin (hereinafter referred to as the IMS facility).

The location of the IMS facility and associated application boundary for the proposed development is shown in **Figure 1**.

The IMS facility is a former limestone and shale quarry that has been operating as an engineered landfill site since 2003. Under the terms of the current planning permissions and the existing Waste Licence (Ref. W0129-02) issued by the Environmental Protection Agency (EPA), only waste which meets the criteria for inert landfill as set out in the Landfill Directive (Directive 1999/31/EC) may be accepted at the site. The current cap on the waste volumes accepted at the site is restricted to 500,000 tonnes per annum both by the planning consents and the Waste Licence.

IMS is seeking consent to diversify the waste materials accepted at the Hollywood site to include a broader mix of wastes at a series of specially engineered cells to meet the demands of the construction sector and to allow for State self-sufficiency in particular waste streams. The proposal consists of permission for a 25-year lifetime of operation to develop engineered landfill cells on the site to landfill a mixture of non-hazardous and inert wastes at a rate of 500,000 tonnes per annum as per the existing operation.

A Hydrogeological Risk Assessment (HRA) is required to support the Environmental Impact Assessment Report (EIAR) for the planning and licensing applications and to specifically address the potential for the proposed facility to cause unacceptable impact to the water environment, principally from leachates leaking directly into groundwater and indirectly into surface water receptors. The report presents the methodology and results of this Hydrogeological Risk Assessment.

1.2 Site Location

The IMS facility is situated on a former quarry that operated from the 1940s up to 2007. Permission for the infilling and restoration of the former quarry using inert waste was first granted in 1988 and has continued to the present date. The total area in the ownership of IMS is 54.4 hectares. The principal physical characteristics of the operational landfill site are evident in **Figure 2** and includes:

- Site entrance, buildings and other infrastructure situated outside the quarry void on the western boundary of the IMS facility;
- Fully restored inert waste cells (Cells 1, 2, 3, 4 and 5) in the west of the IMS facility;
- The area to the south and east of the facility outside of the quarry void that represents natural ground capped by former quarry spoil and is characterised by a declining topographic elevation to the east;
- The principal quarry void that includes:
  - Haul roads and ramps to allow vehicle access across the site;
  - Infilled inert waste cells currently under restoration (Cells 1, 2, 3, 4 and 5);
  - Presently operational engineered inert waste cells (Cell 6 & 7);
  - Currently empty void to be engineered as new waste cells (Cells 8-13);
  - 3 No. small ponds typically used for settlement of surface water pumped intermittently from the quarry void during active operation of the IMS facility.

1.3 Proposed Landfill Engineering

Figure 2 shows the proposed layout of the site. The key elements of this layout of relevance to this risk assessment include:

- Specially engineered landfill cells for inert and non-hazardous wastes;
- Surface water management infrastructure for the landfill to capture, attenuate and treat storm water; and
- Leachate management infrastructure for the landfill to capture and store leachate prior to tankering off site.

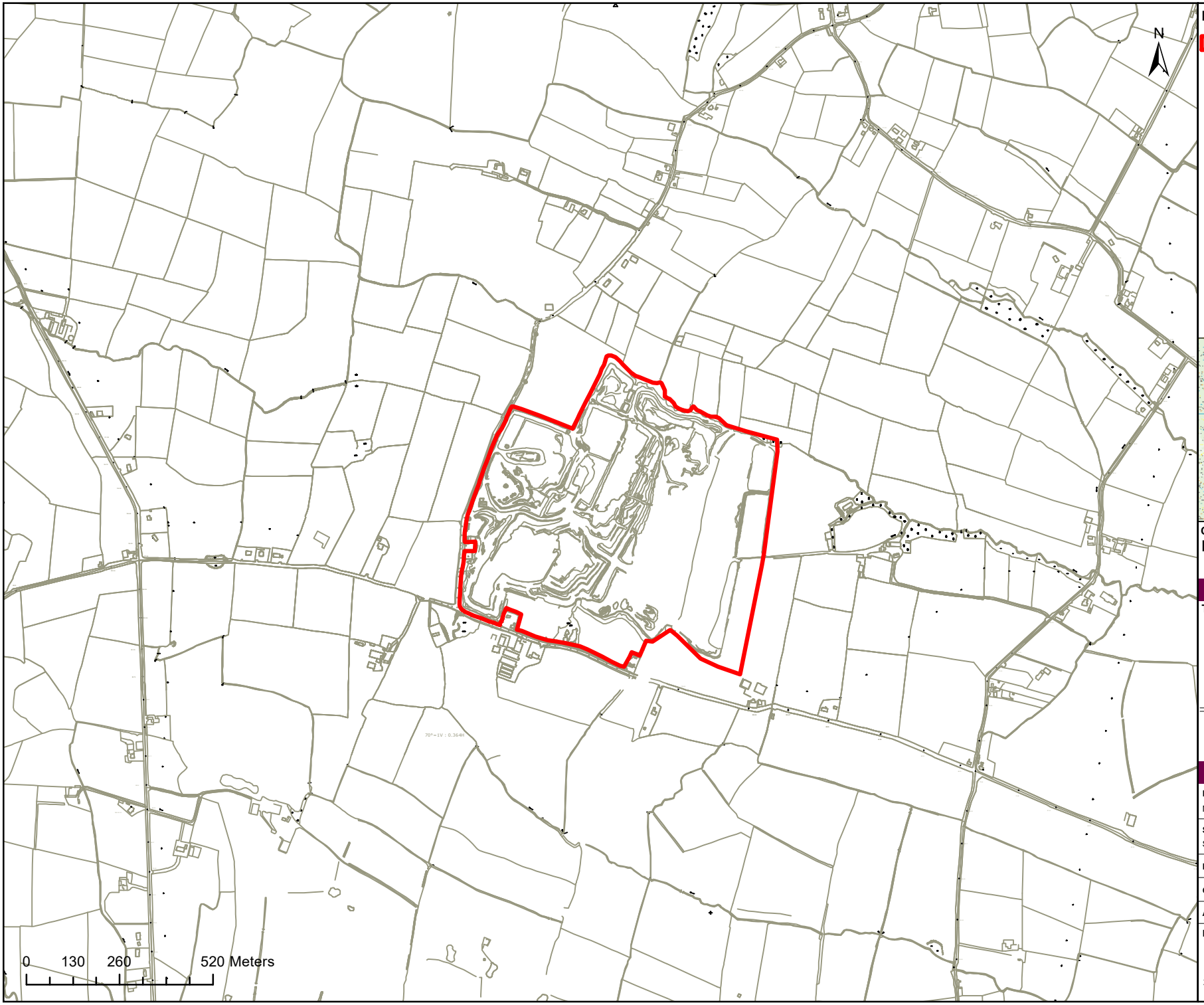
Further detailed descriptions of the proposed engineering and phasing of the landfill cells is presented in the Environmental Impact Assessment Report (EIAR) supporting the planning application for the site.

1.4 Report Objectives and Methodology

The objective of this report is to undertake a hydrogeological risk assessment for the proposed development at using an appropriate risk tool and methodology recognised by regulatory guidance. The risk assessment will utilise a probabilistic model (LandSim) constructed using a combination of site-specific information where available and published literature information or professional judgement where site-specific information is not available.

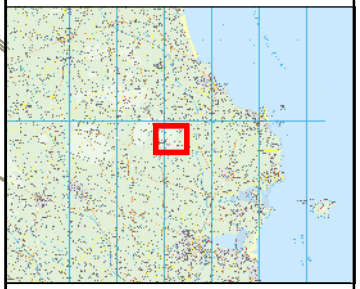
Being a probabilistic model, input data that is uncertain will be defined within likely ranges to allow a percentile probability of possible outcomes to be calculated. In keeping with guidance, the risk assessment will report 95th percentile (95th%ile) values, i.e. the value that is only exceeded on five occasions in one hundred. This percentile is used to ensure the assessment remains highly likely to predict the worst-case outcome, or put another way, where a compliant outcome is predicted, regulators can have high confidence that this is a likely outcome.

A substantial amount of work has been undertaken on the hydrogeological setting of the site based on extensive intrusive investigation and groundwater monitoring. This evidence, and a revised Conceptual Hydrogeological Model based on it, has been reported separately within the Hydrogeological Assessment of the Integrated Waste Management Facility at Hollywood Landfill Report (RPS Report MDR1492Rp00013). This report is therefore the source of all the hydrogeological data and conceptual setting required for the LandSim model.



Legend

Site Boundary



Client

Integrated Materials Solutions (IMS) Limited Partnership

IMS Hollywood 2022 Update

Title

Figure 1
Site Location

RPS
West Pier Business Campus, Dun Laoghaire, Co Dublin, Ireland.
T +353 (0) 1 4882900
E ireland@rpsgroup.com
W rpsgroup.com/ireland

Issue Details

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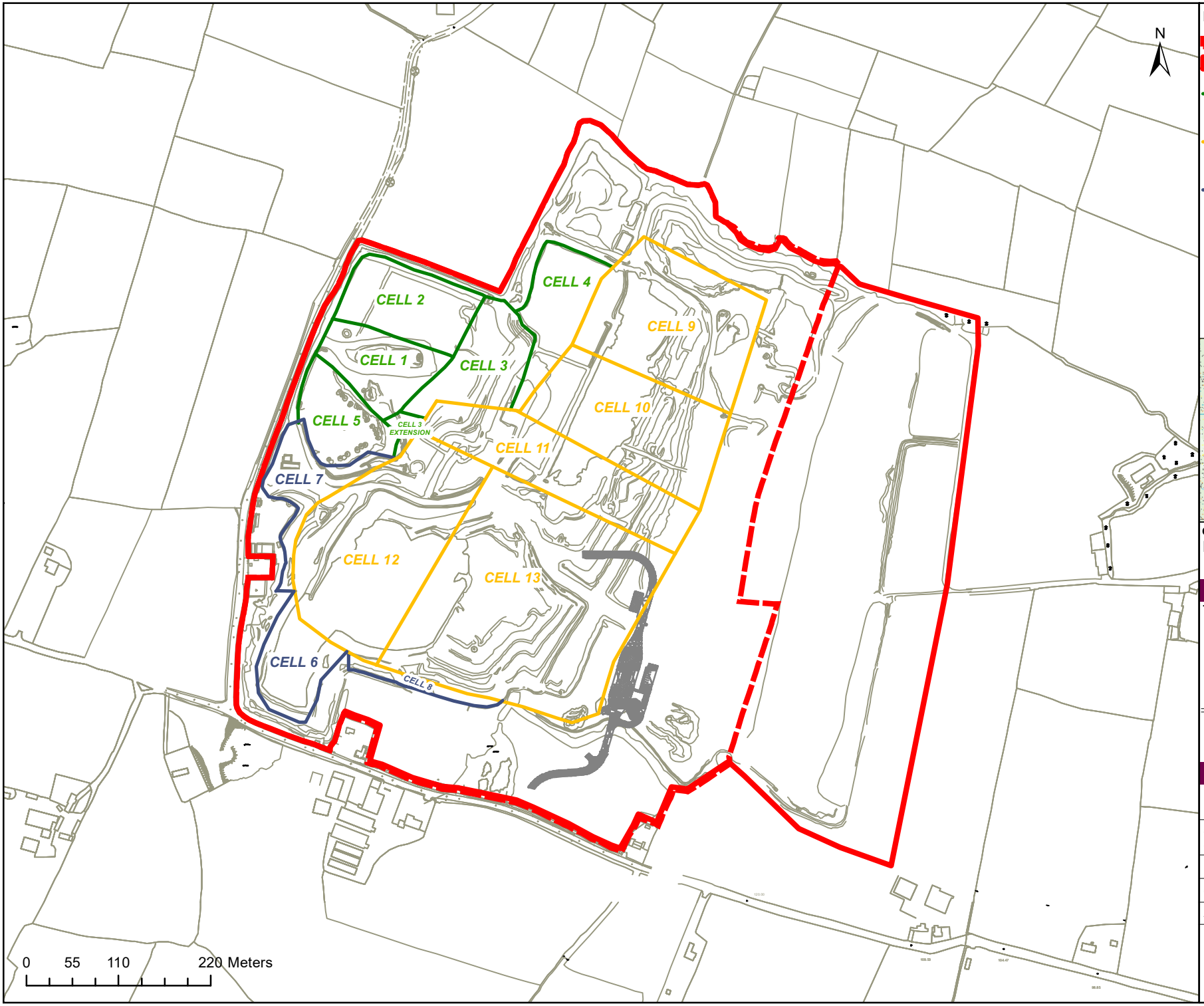
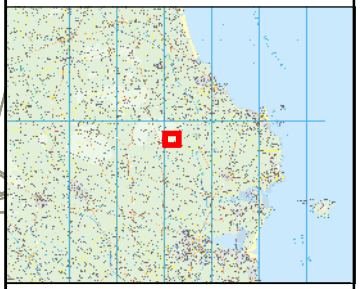


Legend

- Waste Licence Boundary
- Proposed Planning Boundary
- Existing Cell Boundaries (Indicative)
- Proposed Non-Hazardous Waste Cell Boundaries (Indicative)
- Proposed Inert Cells Boundaries (Indicative)



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IMS Hollywood 2022 Update

Title

Figure 2: Cell layout for the Proposed Development

West Pier Business Campus, Dun Laoghaire, Co Dublin, Ireland.
T +353 (0) 1 4882900
E ireland@rpsgroup.com
W rpsgroup.com/ireland

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2 CONCEPTUAL HYDROGEOLOGICAL SITE MODEL

2.1 Source Term Characteristics

2.1.1 Waste Types

The proposed landfill site will be classified as a non-hazardous landfill site comprising circa 25% inert and 75% non-hazardous wastes (indicative fractions only). The 75% non-hazardous material deposited is expected to comprise the following predominant waste types:

- 57% soils;
- 12% Incinerator Bottom Ash (IBA);
- 3% inert fines;
- 1.5% Waste Water Treatment Plant (WWTP) sludges; and
- 1.5% non-specified non-hazardous waste.

Inert waste is defined as follows;

(a) It does not undergo any significant physical, chemical or biological transformations;

(b) It does not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm to human health; and

(c) Total leachability, pollutant content and the ecotoxicity of its leachate are insignificant and, in particular, do not endanger the quality of any surface water or groundwater.

Based on this definition of inert waste, the proportion of waste should not produce any leachate that could result in any significant discharge of Hazardous Substances or Non-Hazardous Pollutants throughout the lifecycle of the site. Therefore, with regard to this inert waste stream, the site does not present a risk to groundwater and surface water quality. However, it is considered that a quantitative risk assessment is required for these phases given that the landfill is located where the receiving environment is sensitive, i.e. constructed above saturated strata considered to be viable as water resources or in continuity with down-gradient surface water bodies. Both of these criteria are attributes of the Hollywood landfill site.

2.1.2 Source Areas

The site will be engineered as phased cells within the existing quarry void space as shown on **Figure 2** and as detailed in Chapter 5 of Volume II of the EIAR. Note that some cell layouts have been rationalised for this application whereby those modelled in this assessment as phases 12 and 13 are now designated as Cell 12 and phases 14A, 14B and 15 are now designated as Cell 12 for this application.

The phase sizes together with the fill depth and durations of the proposed phases are shown in **Table 1.1**. Durations of the phases has been determined by adopting the proposed 500,000 tonnes per annum input rate and a volume conversion factor equal to 1.9 tonnes per cubic metre (t/m^3).

Table 1.1: Proposed Landfill Phase Heights and Volumes

Proposed Cell	Modelled Phase	Maximum Waste Depth (metres)	Lift Duration (years)	Phase Void Volume (m^3)	Cumulative Void Volume (m^3)
6	6	32	2.0	268,530	268,530
7	7	25	2.3	306,182	574,712
8	8	25	3.8	495,165	1,069,877
9	9	19	3.0	398,571	1,468,448
10	10	24	3.3	433,707	1,902,155
11	11	28	3.1	401,799	2,303,954
12	12	35	3.0	392,421	2,696,375
	13	34	2.4	318,986	3,015,361
13	14A	30	1.6	207,758	3,223,119
	14B	29	1.2	155,894	3,379,013
	15	31	6.9	907,816	4,286,829

2.1.3 Leachate Quality

For the risk assessment, leachate quality for the site has been characterised using ranges considered conservatively representative of landfill leachate for a non-hazardous landfill nor receiving household wastes. Four indicative leachate contaminants of concern have been modelled based on the expected waste streams described above. A combination of hazardous and non-hazardous inorganic, heavy metal and organic contaminants have chosen reflecting the types of contaminant potentially present within the non-hazardous waste materials.

Soils are by far the largest waste type comprising 76% of the non-hazardous material (57% of total wastes) and are most likely to be impacted by petroleum hydrocarbons and heavy metals. Naphthalene has been modelled as a representative of diesel range organics and PAH contaminants more generally due to it being the lightest and most environmentally mobile of the PAH compounds and the most abundant component of coal tar. Naphthalene is also classified by the International Agency for Research on Cancer (IARC) as possibly having the ability to cause cancer in humans.

Cadmium has been modelled due to its toxicity and as it is a Priority Hazardous Substance as defined by Annex X of the Water Framework Directive (2000/60/EC).

As IBA is the next largest waste type comprising 16% of the non-hazardous material (12% of total wastes), and is characterised by soluble phytotoxic metal salts, copper has been modelled as a landfill leachate contaminant due to its presence up to c. 0.5 mg/l in IBA leachates studied from the UK (Assessment of Hazard Classification of UK IBA, WRc, 2002).

Ammoniacal nitrogen has been modelled as it is a highly mobile contaminant commonly produced within landfill leachate and leaching of IBA up to c. 10 mg/l (Testing of Residues from Incineration of Municipal Solid Waste, EA Science Report P1-494/SR2, 2004). Ammoniacal Nitrogen is an aquatic toxin and conservative environmental fate-transport properties, i.e. having negligible retardation and biodegradation potential.

These chemical species are shown in **Table 1.2** and **Table 1.3** together with the reason for their inclusion within the risk assessment. A representative leachate term has been derived based on landfill Waste Acceptance Criteria (WAC) reproduced as that shows the concentration limits expressed in mg/kg at L/S10. Accordingly, 10% of these figures has been taken to represent the leachate concentration in mg/l.

It is recognised the likely leachate resulting from a predominantly solid, soil-based waste mass will generate a much lower strength leachate than landfills containing putrescible domestic type wastes. It would be overly pessimistic to assign leachate concentrations equal to the maximum limits of hazardous waste acceptance, the leachate source has been based on a maximum of 10% of the WAC limit for hazardous waste where available and a most likely concentration of 1%. A minimum of zero has been assigned to recognise soils having a reasonable likelihood of not containing the modelled contaminants.

In the absence of a WAC limit for specific organic compounds, maximum leachate concentrations for naphthalene have been based on solubility limits with the maximum concentration at 10% (and 1% most likely) of the maximum solubility for the non-hazardous cells and 1% (and 1% most likely) of the maximum solubility for the inert waste cells. Again, a minimum of zero has been assigned for all phases to recognise soils having a reasonable likelihood being absent of the contaminant.

In the absence of specific leachate data, ammoniacal nitrogen concentrations have been conservatively defined as ranging between 5 and 50 mg/l for non-hazardous cells and between 2 and 20 mg/l for the inert cells.

Table 1.2: Leachate Source Term Concentrations – Inert Cells (mg/l)

Leachate Species	Reason for inclusion	Concentration Range			Source of data
		Min	Likely	Max	
Hazardous Substances					
Cadmium	Priority heavy metal	1e-30	4e-06	4e-05	10%/1%/0% inert WAC
Naphthalene	Diesel hydrocarbon indicator	1e-30	0.031	3.1	10%/1%/0% Maximum Solubility
Non-Hazardous Polluting Substances					
Ammonia	Mobile ecotoxin	2	-	20	Conservative Estimate
Copper	Ecotoxic metal in IBA	1e-30	0.002	0.020	10%/1%/0% inert WAC

Table 1.3: Leachate Source Term Concentrations – Non-Hazardous Cells (mg/l)

Leachate Species	Reason for inclusion	Concentration Range			Source of data
		Min	Likely	Max	
Hazardous Substances					
Cadmium	Priority heavy metal	1e-30	0.001	0.01	10%/1%/0% inert WAC
Naphthalene	Diesel hydrocarbon indicator	1e-30	0.31	31	10%/1%/0% Maximum Solubility
Non-Hazardous Polluting Substances					
Ammonia	Mobile ecotoxin	5	-	50	Conservative Estimate
Copper	Ecotoxic metal in IBA	1e-30	0.050	0.500	10%/1%/0% inert WAC

Figure 3 Waste Acceptance Criteria for Landfills

Parameter	Inert waste landfill	Stable non-reactive/ non-hazardous	Hazardous waste landfill
Parameters determined on the waste – total concentration			
Total organic carbon (%w/w)	3%	5%	6%*
Loss on ignition (%w/w)			10%*
BTEX (mg/kg)	6		
PCBs (7 congeners) (mg/kg)	1		
Mineral oil C10-C40 (mg/kg)	500		
PAHs (mg/kg)	100		
pH		>6	
Acid neutralisation capacity		To be evaluated	To be evaluated
Limit values (mg/kg) for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
As (arsenic)	0.5	2	25
Ba (barium)	20	100	300
Cd (cadmium)	0.04	1	5
Cr (chromium (total))	0.5	10	70
Cu (copper)	2	50	100
Hg (mercury)	0.01	0.2	2
Mo (molybdenum)	0.5	10	30
Ni (nickel)	0.4	10	40
Pb (lead)	0.5	10	50
Sb (antimony)	0.06	0.7	5
Se (selenium)	0.1	0.5	7
Zn (zinc)	4	50	200
Cl (chloride)	800	15,000	25,000
F (fluoride)	10	150	50
SO_4 (sulphate)	*1,000	20,000	50,000
Total dissolved solids (TDS)*	4,000	60,000	10,0000
Phenol index	1		
Dissolved organic carbon at own pH or pH7.5-8.0@	500	800	1,000

2.1.4 Infiltration and Leachate Levels

For the uncapped filling stages of the landfill, an effective rainfall figure of 758 mm/year has been used (as per the drainage design employed in the EIAR). Under capped conditions, the infiltration rate has been set at 23 mm/annum representing 3% of the annual effective rainfall of the site.

During leachate level control within the landfill, excess leachate volumes above these values (representing the volume required to be removed from storage within the waste to maintain leachate levels above the liner during landfilling and aftercare) is removed from site. No leachate recirculation has been included in the model.

Leachate levels in the waste have been predicted using LandSim. Leachate levels within the landfill are dependent on the water balance for the site. LandSim calculates a water balance for the site, taking into consideration the following assumptions:

- Open waste areas are subject to direct infiltration from rainfall comprising annual average precipitation as recommended by guidance;
- Permanent landfill restoration comprises a clay cap;

- No absorptive capacity of waste accounted for as recommended by guidance due to waste moisture release on compaction;
- Leachate levels controlled within the landfill cells during active landfilling and aftercare and then allowed to recover during post landfilling management period;
- A post management of 25 years has been modelled; and
- No liquid wastes are proposed for disposal in the landfill.

The decline in leachate concentrations is strongly controlled by water inputs to the waste mass as described above and LandSim uses a kappa value to determine this declining source behaviour of landfills. The total water inputs in waste are based on the infiltration pre and post capping.

2.2 Contaminant Pathways

During the modelled landfill lifetime of 20,000 years, the pathways via which contaminants contained in landfill leachate may leave the site change depend on the form of landfill operation and leachate control. Three main phases of the landfill have been considered as set out in the following paragraphs.

2.2.1 Active Landfilling

Each phase is modelled to generate leachate during the open waste phase of the site. The period of open waste infiltration is shown in **Table 1.1**.

2.2.2 Post Restoration during Management Period

Once active landfilling has been completed, the site will be restored with a clay cap as described in Chapter 5 of Volume II of the EIAR to prevent further uncontrolled ingress of rainfall to generate leachates. Leachate controls will continue following restoration for the duration of the 25-year management period.

2.2.3 Post Management Period

Following termination of controls at the end of the management period, leachate levels will be determined by the balance of the volume of infiltrating rainfall entering the landfill with leachate leaving the landfill through the engineered barrier.

Flow of leachate through the landfill engineering will occur primarily through defects in the membrane liner comprising holes and tears created during installation. LandSim models the flow through such defects but also takes account of further membrane deterioration as a result of oxidation by leachate with a resulting further increase in permeability. This gradual increase in permeability is modelled by LandSim over a default period of 1,000 years with the final permeability value equalling that of the mineral component of the liner alone following the relative effective loss of permeability by the membrane.

After 1,000 years, equilibrium becomes established between infiltration and leakage through the engineered barrier system. The head of leachate that exists at this point is calculated as part of the risk assessment to test whether leachate breakout is predicted.

2.2.4 Unsaturated Zone

An unsaturated zone is present beneath the site as evidenced by the groundwater monitoring undertaken at the site described within the Hydrogeological Assessment (RPS Report MDR1492Rp00013). The basal engineering is proposed to form a cell base at an elevation of 105 mAOD, Given a proposed cell engineered barrier thickness of 1 metre, the unsaturated zone has a upper elevation of 104 mAOD. Groundwater monitoring within the Namurian strata underlying the majority of the site show a dipping water table toward the east ranging from a maximum elevation of c. 102 mAOD to 100 mAOD (see Hydrogeological Assessment Report). This gives an unsaturated zone thickness for the model ranging between 2 and 4 metres with a most likely thickness of 3 metres.

In the absence of any quantitative measurements, an unsaturated hydraulic conductivity has been defined one order of magnitude lower than that for the saturated zone (see below). This is considered a conservative assumption.

2.2.5 Vertical Pathway

No separate vertical saturated pathway has been modelled beneath the site as this is not supported by the site Conceptual Hydrogeological Model.

2.2.6 Saturated Zone

A detailed description and discussion on the character of the saturated strata beneath the site is provided in the Hydrogeological Assessment. For the purposes of the LandSim assessment, it is concluded that on the basis of the hydrogeological evidence gathered at the site, the shallow bedrock strata can be treated as an equivalent porous medium due to structural fabric of these rocks, characterised by significant weathering and fracturing. Site specific pumping tests have been carried out and indicative transmissivities determined. A representative range of associated hydraulic conductivity of between $1e^{-05}$ and $1e^{-04}$ m/s has been assigned to the saturated pathway.

A mixing zone thickness of between 5 and 10 metres has been assigned to the underlying aquifer which is judged to be appropriate for this setting and bedrock character for the pathway under consideration.

Shales are typically characterised by low porosity below 0.05. A nominal effective porosity range of 0.01 to 0.10 has been assigned to the Namurian strata to account for the likely presence of areas of negligible fracturing and more developed weathering related porosity within the bedrock.

2.2.7 Attenuation Mechanisms

2.2.7.1 Dilution

Both during and following management of the site, leachate strength will be diluted by infiltrating rainfall as contaminants are progressively flushed from the waste mass as modelled by LandSim as a declining source. Following the cessation of management controls and following recovery of leachate levels, leachate migrating from the site via leakage into groundwater will be subject to dilution in groundwater flowing beneath the site.

2.2.7.2 Retardation

Retardation processes will occur in the mineral liner component of the composite liner and within the geological strata whereby organics and metals may be subject to sorption processes including adsorption, chemisorption, absorption and ion exchange.

Cation exchange processes will occur in the landfill liner but this is not included as an attenuation process in the software used for the assessment. This is considered a conservative approach to the assessment.

For organic compounds, Koc values were applied from the Environment Agency adopted sources. To calculate Kd values for organic compounds, LandSim requires the fraction of organic carbon of the pathway under consideration. Whilst elevated organic carbon can be expected to be present within Namurian strata beneath the site, a conservative low value of 0.001 has been assigned for the purposes of the assessment.

2.2.7.3 Degradation

Degradation processes in the clay barrier and saturated zone may be limited by the likely presence of anaerobic conditions directly surrounding the landfill site

Anaerobic half-life values naphthalene (200 to 1000 days) are provided in the ConSim user manual. Degradation of these compounds may therefore occur under anaerobic conditions.

The National Groundwater and Contaminated Land Centre (NGWCLC) report NC/02/49 '*Review of ammonium attenuation in soil and groundwater*', provides tentative guideline half-life values for ammonium under aerobic conditions of 5 to 10 years, where there is a significant degree of fissuring.

2.3 Receptors

The key potential environmental receptors that could be impacted by the presence of the contaminant source on the site are summarised below:

- Receptor 1: Groundwater directly beneath the site – (Hazardous Substances); and
- Receptor 2: Groundwater at the site boundary 60 metres down hydraulic gradient – (Non-Hazardous Substances);

This assessment addresses both Receptors 1 and 2. **Table 2.4** summarises the Environmental Assessment Limits for the contaminants, which are employed in this assessment.

Table 2.4: Contaminant Environmental Assessment Levels

Contaminant	Receptor EAL* (mg/l)	
	1	2
Ammoniacal Nitrogen as N	-	0.39
Copper	-	0.001
Cadmium	0.0001	-
Naphthalene	0.0001	-

*1 – Minimum Reporting Values (MRV) after Appendix 7 of EA HRA for Landfills (2003)
*2 – UK Drinking Water Standards (DWS), or EQS Freshwater, whichever is the lowest.

In the absence of a MRV for naphthalene, a concentration of 0.0001 mg/l has been adopted as a conservative precaution.

3 HYDROGEOLOGICAL RISK ASSESSMENT

3.1 The Nature of the Hydrogeological Risk Assessment

A complex risk assessment methodology is used for the site for the following reasons;

- The classification of waste to be deposited at the site as non-hazardous;
- The probability that leachate in the landfill will contain hazardous and non-hazardous polluting substances; and
- The uncertainty associated with the pathway properties and the leachate quality.

3.2 The Proposed Assessment Scenarios

3.2.1 Lifecycle Phases

It is recognised that the hydrogeological risk assessment must assess the landfill installation compliance with the requirements of the Groundwater Regulations throughout the lifecycle of the landfill, i.e. from the start of the operational phases until the point at which the landfill no longer presents an environmental risk.

Infiltration to the site will vary throughout the lifecycle of the site from when the phases are open to incident rainfall during filling to when a low permeability cap is placed over the waste. This variation in infiltration is represented by the assessment.

The assessment assumes that site management control measures are in place in for a period of 25 years following the cessation of landfilling. The models therefore assume that leachate levels are controlled at or below the permitted level for this period of time, after which control measures will be removed.

Once management control ceases, the leachate level will vary according to the balance between inflows and outflows to the site. If inflows exceed outflows, leachate breakout at the surface may ultimately occur. The potential for leachate breakout is assessed by the LandSim model.

Three stages of the site lifecycle are therefore assessed;

- Active landfilling, with operational controls (Operational Period) – used to predict leachate quality;
- Post filling and capping, with operational controls, i.e. leachate abstraction – used to predict likely completion criteria after 25 years management; and
- Post filling and capping, without operational controls, i.e. no leachate abstraction – used to predict advective impacts following equilibrium leachate levels.

3.2.2 Source Term Decline

The change in leachate concentration of non-volatile species over time will be controlled by how rapidly the waste mass is flushed by infiltration and by how readily any non-volatile species are released from the solid to the aqueous phase. The rate of release from the solid to liquid phase is defined by the kappa value (LandSim V2.5). Default kappa values are presented in LandSim.

3.2.3 Engineered Barrier System Degradation

The properties of the geomembrane used in the cell lining system for the non-hazardous phases will change throughout the lifecycle of the site as a result of degradation. This degradation is modelled by LandSim.

The LandSim default values for defect values to the membrane liner following installation have been adopted. Six stages in the lifecycle of a membrane liner in terms of the generation of defects is accounted for within LandSim;

- Liner construction;
- During landfilling;

- A period after landfilling during which no defects are generated;
- Liner degradation due to oxidation;
- Further stress cracking during oxidation; and
- Continuing deterioration.

3.3 The Priority Contaminants to be Modelled

Due to the nature of the proposed waste, there is a potential for a range of hazardous and non-hazardous polluting substances to be present in the leachate generated. The substances selected as representative of the leachate for the purposes of the risk assessment are listed in **Table 3.1** and **Table 3.2** respectively.

Table 3.1: Hazardous Contaminants

Substance	Properties
Cadmium	Low mobility metallic ion
Naphthalene	Hydrophobic organic chemical

Table 3.2: Non-Hazardous Polluting Contaminants

Substance	Properties
Ammoniacal Nitrogen	Inorganic cation
Copper	Highly mobile metallic ion

Metals including cadmium and copper will be subject to retardation processes but will not degrade between the source and receptor. Organic compounds will be subject to retardation but will also be subject to biodegradation, which will serve to reduce the mass of these compounds. Ammoniacal nitrogen will be subject to retardation processes, including cation exchange reactions, but will also degrade by nitrification processes.

The following compliance points are used for the assessment:

- The base of the engineered barrier system – post management period (hazardous substances); and
- Groundwater at the edge of the site boundary – post management period (non-hazardous polluting substances).

3.3.1 Leachate Drainage Systems and Leachate Head Control

Leachate head within the landfill will be controlled to within 1 metre above the engineered cell bases. To this end the leachate within the waste will be monitored and pumping from the landfill can be initiated to maintain leachate levels within this range as required.

An assessment will be made to determine whether leachate breakout, that occurs when leachate depths exceed a level where containment is lost, is predicted for each phase of the landfill.

3.3.2 Capping

An engineered low permeability clay cap will be placed across the completed landfill in accordance with a CQA programme agreed with the Regulatory Authorities. The purpose of the cap is to minimise infiltration to the waste mass and therefore minimise the production of leachate. Routine inspections of the cap will be undertaken during the period of management control and repairs made as necessary.

In the event that the volumes of leachate produced at the site indicate that the cap is not performing as designed, the integrity of the cap will be checked and repairs made as necessary.

3.3.3 Basal Engineering Design

Placement of the lining system will be undertaken in accordance with permitted requirements agreed with the Regulatory Authorities. The purpose of the lining system is to facilitate the collection of leachate and to minimise the migration of leachate from the base of the site.

3.3.4 Leachate Recirculation

No leachate recirculation to waste is proposed for the site.

3.3.5 Monitoring

Following the end of the management control period, groundwater and leachate monitoring will be continued to assess if the landfill is performing as designed. The appropriate control and trigger levels will be assigned to ensure performance is assessed to agreed limits.

3.4 Mathematical Modelling

3.4.1 Justification

The conceptual model of the site has been developed according to a source-pathway-receptor methodology. The conceptual model development and risk assessment has been undertaken in accordance with regulatory guidance, and this has been implemented using LandSim Version 2.5.

LandSim software is used for the assessment, as it is applicable to the conceptual model for the site. LandSim is used to predict leachate concentrations and elevations during and following the management period of the site, including changes in infiltration, a declining source and degrading leachate control measures. The model accounts for the variability and uncertainty of the input parameters.

3.4.2 Modelling Approach

LandSim has been used to model the full lifecycle of the landfill, the degree of leakage through the cell bases during and following the management period and predict leachate concentrations at the specified compliance points. The model also predicts the likely head of leachate that develops following cessation of management controls.

The results of the model are assessed and reported using the 95% percentile. This is considered worst case is considered to represent reasonable worst case for a site where significant potential risk is present. The 50% percentile is also reported where this is useful as this provides the most likely outcome from the model, i.e. 50% of solutions were lower and 50% higher than the reported value.

3.4.3 Water Balance Calculations

LandSim undertakes water balance calculations as part of the model. The model predicts the amount of leachate generated that can be extracted from the leachate drainage layer. LandSim assumes all infiltration enters waste over the total surface area of the site. For the uncapped scenarios, an effective rainfall figure of 758 mm/annum has been used (EIAR). Under capped conditions, the infiltration rate has been set at 23 mm/annum representing 3% of the annual effective rainfall of the site.

3.4.4 Model Parameterisation

Table 3.3 to **Table 3.12** provide the model parameters used for the risk assessment. The scenarios were used to assess the potential impact on the groundwater at the base of the unsaturated zone beneath the site for hazardous substances and in groundwater 60 m down hydraulic gradient of the site for non-hazardous substances.

Table 3.3: Declining Source Term Parameters – Managed & Post Managed Scenarios

Decline in Contaminant Concentration in Leachate	Unit	Range		Justification
Kappa Values		***c***	***m***	
Ammoniacal Nitrogen	kg/l	0.59	0	LandSim default kappa values
Copper	kg/l	0.0664	-0.0488	
Cadmium	kg/l	0.1589	0.0823	
Naphthalene	kg/l	0.0298	0.2919	LandSim default kappa value for chloride (conservative)
Contaminant Half-lives				
Unsaturated Pathway				
Ammoniacal Nitrogen	years	UNIFORM(5,10)		Naphthalene and half-life taken from the ConSim user manual suggested input parameters for an anaerobic pathway
Copper	years	SING(1e9)		
Cadmium	years	SING(1e9)		
Naphthalene	years	LOGUNIFORM(1, 10)		
Aquifer Pathway				
Ammoniacal Nitrogen	years	UNIFORM(5,10)		Based on Table 4.2 NGWCLC report NC/02/49 - maximum increased by an order of magnitude
Copper	years	SINGLE(1e9)		No degradation
Cadmium	years	SINGLE(1e9)		No degradation
Naphthalene	years	LOGUNIFORM(1, 10)		ConSim user manual

Table 3.4 Aquifer Characteristics - Post Managed Scenarios

Aquifer Pathway	Units	Range	Justification
Pathway regional gradient	[1]	UNIFORM(0.004-0.006)	Representative of Namurian site measurements
Pathway hydraulic conductivity	m/s	LOGUNIFORM(1e-5,1e-4)	Hydrogeological Assessment Report
Retardation parameters for aquifer			
Ammoniacal Nitrogen Kd	l/kg	UNIFORM(0.5,2)	EA recommended values
Copper Kd	l/kg	UNIFORM(127,295)	LandSim suggested values
Cadmium Kd	l/kg	LOGUNIFORM(1.6,1500)	LandSim suggested values
Naphthalene Koc	l/kg	SINGLE(1288)	LandSim suggested values
Fraction of Organic Carbon	fraction	UNIFORM(0.0001)	Conservative judgement for Namurian strata

Table 3.5: Aquifer Pathway Properties

Aquifer pathway dimensions for phase	Unit	Range	Justification
Pathway length	m		Calculated by LandSim
Pathway width	m		Calculated by LandSim
Mixing Zone Thickness	m	UNIFORM(5,10)	Expected range for pathway
Conductivity	m/s	LOGUNIFORM (1e-005,0.0001)	Based on site measurements
Regional gradient	[1]	UNIFORM(0.04,0.06)	Based on site measurements
Pathway porosity	[1]	LOGUNIFORM(0.01,0.1)	Expected range for shale

Table 3.6: Unsaturated Pathway Properties

Parameter	Unit	Range	Justification
Pathway length	m	UNIFORM(1,3)	From on-site monitoring
Moisture content	[1]	UNIFORM(0.005,0.05)	50% of aquifer porosity
Pathway Density	kg/l	UNIFORM(2.0,2.5)	Expected range for shale

Table 3.7: Infiltration to Waste

Infiltration Information	Unit	Range	Justification
Cap design infiltration	mm/year	SINGLE(23)	3% average annual rainfall
Infiltration to open waste	mm/year	SINGLE(758)	100% average annual rainfall
Time Offset	Years	0 - 21 depending on phase	Phasing data from ESIR
End of filling	Years from start of waste deposit	1.2 - 6.9 depending on phase	Phasing data from ESIR
Duration of Management Period	Years from start of waste deposit	25	Management period set at 25 years after cessation of filling

Table 3.8: Cell Dimensions and Waste Properties

Cell	Unit Value	Justification										
Cell		**6**	**7**	**8**	**9**	**10**	**11**	**12**			**13**	
Phase		6	7	8	9	10	11	12	13	14a	14b	15
Cell width	m	84	53	57	115	125	199	58	42	122	40	84
Cell length	m	71	134	160	163	113	63	118	114	43	72	71
Cell base area	ha	0.5964	0.7102	0.912	1.8745	1.4125	1.2537	0.6844	0.4788	0.5246	0.2880	0.5964
Number of Cells	[1]	1	1	1	1	1	1	1	1	1	1	1
Total base area	ha	0.5964	0.7102	0.912	1.8745	1.4125	1.2537	0.6844	0.4788	0.5246	0.2880	0.5964
Total top area	ha	5.7828	1.7898	1.9980	3.8805	4.1405	4.2714	4.7402	3.7800	2.8016	2.4012	5.7828
Final Waste Thickness	m	31	32	25	19	24	28	35	34	30	29	31
Head of leachate when surface water breakout occurs	m	11	21	21	11	11	11	11	11	11	11	11
Waste porosity	fraction	SINGLE(0.3)										
Field capacity	fraction	SINGLE(0.0285)										
Waste density	kg/l	UNIFORM(1.9)										

Table 3.9: Source Concentrations – Inert Cells 6-8

Contaminant	Unit	Range	Justification
Ammoniacal Nitrogen	mg/l	LOGUNIFORM(2,20)	Conservative estimates for landfill
Copper	mg/l	LOGTRIANGULAR(1e-030,0.002,0.02)	LandSim suggested values
Cadmium	mg/l	LOGTRIANGULAR(1e-030,4e-006,4e-005)	LandSim suggested values
Naphthalene	mg/l	LOGTRIANGULAR(1e-030,0.031,3.1)	Conservative range
Treated Leachate Recirculated	m^3/hr	SING(0)	No leachate recirculation

Table 3.10 Source Concentrations – Non-Hazardous Cells 9-13

Contaminant	Unit	Range	Justification
Ammoniacal Nitrogen	mg/l	LOGUNIFORM(5,50)	Conservative estimates for landfill
Copper	mg/l	LOGTRIANGULAR(1e-030,0.05,0.5)	LandSim suggested values
Cadmium	mg/l	LOGTRIANGULAR(1e-030,0.001,0.01)	LandSim suggested values
Naphthalene	mg/l	LOGTRIANGULAR(1e-030,0.31,31)	Conservative Range
Treated Leachate Recirculated	m3/hr	SING(0)	No leachate recirculation

Table 3.11: Engineered Barrier System (EBS) Parameters – Inert Cells 6-8

Criteria	Unit	Range	Justification
Head on EBS is given as:	m	UNIFORM(1)	Nominal managed leachate depth
Properties of EBS			
Hydraulic conductivity of EBS barrier (m/s)		LOGUNIFORM(5e-010,1e-009)	Half order of magnitude range with maximum of 10^{-9} m/s
Design thickness of EBS	m	SINGLE(1)	EIAR
Density of EBS	kg/l	UNIFORM(1.9,2.1)	Expected range for clay
Pathway moisture content	fraction	SINGLE(0.13)	EIAR
Pathway longitudinal dispersivity	m	SINGLE(0.1)	0.1 x pathway length
Retardation parameters for EBS			
Ammoniacal Nitrogen Kd	l/kg	UNIFORM(0.5,2)	EA recommended values
Copper Kd	l/kg	UNIFORM(127,295)	EA recommended values
Cadmium Kd	l/kg	LOGUNIFORM(1.6,1500)	EA recommended values
Naphthalene Koc	l/kg	SING(1288)	EA recommended values
Fraction of Organic Carbon	fraction	SINGLE(0.001)	Estimated Conservative Values for Mercia Mudstone

Table 3.12: Engineered Barrier System (EBS) Parameters – Non-Hazardous Cells 9-13

Criteria	Unit	Range	Justification
Head on EBS is given as:	m	SINGLE(1)	Nominal managed leachate depth
Properties of EBS			
Hydraulic conductivity of composite barrier (m/s)		LOGUNI(5e-10, 1e-9)	Half order of magnitude range with maximum of 10^{-9} m/s
Design thickness of EBS	m	SINGLE(1)	EIAR
Density of EBS	kg/l	UNIFORM(1.9,2.1)	Expected range for clay
Pathway moisture content	fraction	SINGLE(0.13)	EIAR
Pathway longitudinal dispersivity	m	SINGLE(0.1)	0.1 x pathway length
Retardation parameters for EBS			
Ammoniacal Nitrogen Kd	l/kg	UNIFORM(0.5,2)	EA recommended values
Copper Kd	l/kg	UNIFORM(127,295)	LandSim suggested values
Cadmium Kd	l/kg	LOGUNIFORM(1.6,1500)	LandSim suggested values
Naphthalene Koc	l/kg	SINGLE(1288)	LandSim suggested values
Properties of EBS			
Onset of FML degradation	Years since filling commenced	150	LandSim suggested values
Time for area of defects to double	Years	100	LandSim suggested values
Membrane Defects (number per hectare)			
Pin holes		UNIFORM(0, 750)	Default for fair quality
Holes		UNIFORM(0, 150)	
Tears		TRIANGULAR(0, 5, 10)	

3.4.5 Sensitivity Analysis

The assessment uses a probabilistic approach therefore a sensitivity analysis is not required. The 95th%ile values are used as outputs from the model, which are representative of the worst-case performance of the landfill.

3.4.6 Calculated Hydraulics

A leachate head assessment is undertaken to investigate whether the leachate drainage system can maintain leachate levels below the permitted maximum. The results of this assessment are reported in **Table 3.13**.

Table 3.13: Calculated Post Management Leakage from Cell Specific EBS

Cell	Phase	Steady state leakage from EBS (l/day)	95th%ile head on EBS (m)	50th%ile flow to treatment plant (l/day)	95th%ile flow to treatment plant (l/day)	95th%ile Surface Breakout (l/day)
6	6	1,127	2.52	216.6	487.5	0
7	7	2,004	3.49	767.3	1,112.3	0
8	8	1,258	2.09	119.7	444.9	0
9	9	2,444	0.51	0	1,582.3	0
10	10	2,607	1.14	166.5	166.5	0
11	11	2,690	1.48	523.3	1,970.1	0
12	12	2,985	4.05	1,802.3	2,555.5	0
	13	2,380	4.75	1,552.9	2,042.9	0
13	14a	1,764	2.89	857.7	1,415.0	0
	14b	1,512	5.08	1,014.4	1,323.5	0
	15	3,641	6.07	2,610.9	3,320.6	0

The leachate heads predicted in the above table are only reported to demonstrate that the rate of leachate production post management is not sufficient to result in leachate breakout from the site. The Post Managed scenario model predicts that there is no surface breakout of leachate during lifecycle of the site at the expected values (50th%ile values) and the worst-case values (95th%ile values).

3.5 Accidents and their Consequences

The accidents and failure scenarios considered to be applicable to the site, with appropriate actions are summarised in **Table 3.14**.

Table 3.14: Accidents and Consequences

Scenario	Likelihood of Occurring	Consequence	Action
Structural failure/compactor driver collision with wells/subsidence	Moderate	Destruction/ degradation of leachate management system	Minimise risk of potential leachate well damage by placement of concrete rings. Target pads to be installed for future leachate wells.
Stability failure/pore water pressure/subsidence	Low	Failure of side wall liner	Stability risk assessment undertaken to quantify risk design factor of safety.
Sub grade failure/stability failure/subsidence	Low	Failure of artificial sealing liner	Stability risk assessment undertaken to quantify risk and design factor of safety.
Failure of leachate abstraction system	Moderate	Recovery of leachate levels	The leachate management system will be designed to allow routine maintenance. Leachate abstraction points will be replaced/added to if required.

In the event that the basal lining system for the site failed, the leakage of leachate from the base of the site would be ultimately controlled by the amount of water entering the landfill via infiltration through the landfill cap. The integrity of the cap therefore exerts a strong control on the level of impact resulting from liner failure.

The greatest risk of capping layer failure is during the early stage in the lifecycle of the site, during the period of highest rates of waste settlement and prior to the establishment of vegetation cover. This will be during the management phase of the site and any significant failure will be easily observed and fixed during this phase. The risk of impact from capping failure is therefore minimised.

3.6 Emissions to Groundwater

The models predict the concentrations of the priority contaminants at both the hazardous and non-hazardous compliance points as appropriate. Both the 50th%ile (most likely) and 95th%ile (worst case) concentrations are reported.

The input parameters for the LandSim model are included at Appendix A and the model outputs at Appendix B. The predicted 50th percentile and 95th percentile concentrations of hazardous substances at the base of the unsaturated zone and non-hazardous substances in groundwater at the compliance point, a distance of 60 m down gradient from the boundary of the landfill at the site ownership boundary, resulting from leachate migration from the landfill are shown in **Table 3.15** and **Table 3.16** respectively.

Table 3.15: Model Results – 50th%ile (most likely)

Determinant	Guideline Value at Compliance Point		Predicted 50th% Concentrations, C, at base of unsaturated zone (hazardous) and at 60m from edge of waste (non-hazardous) (mg/l) at time, t, during 20,000 years			
	Hazardous Base of EBS (MRV)	Non-Hazardous Aquifer 60m down-gradient	Maximum		Time exceeding EAL	
			C (mg/l)	t (years)	C (mg/l)	t (years)
Amm-N		0.39	3.11e-5	232	-	-
Copper		0.001	0	-	-	-
Cadmium	0.0001		0	-	-	-
Naphthalene	0.0001		0	-	-	-

Table 3.16: Model Results – 95th%ile (worst case)

Determinant	Guideline Value at Compliance Point		Predicted 95th% Concentrations, C, at base of unsaturated zone (hazardous) and at 60m from edge of waste (non-hazardous) (mg/l) at time, t, during 20,000 years			
	Hazardous Base of EBS (MRV)	Non-Hazardous Aquifer 60m down-gradient	Maximum		Time exceeding EAL	
			C (mg/l)	t (years)	C (mg/l)	t (years)
Amm-N		0.39	0.00033	233	-	-
Copper		0.001	4.40e-7	20,000	-	-
Cadmium	0.0001		0.00029	11,000	>0.0001	3,585-20,000
Naphthalene	0.0001		1.47e-5	250	-	-

The results of the assessment indicate that no exceedances of the EALs of non-hazardous substances are predicted resulting from leachate migration within groundwater. For the modelled hazardous substances, cadmium is predicted to be present at the base of the unsaturated zone only above the Minimum Reporting Value after c. 3,500 years.

The results of the assessment also indicate that the concentrations of non-hazardous polluting substances resulting from leachate migration will not cause any unacceptable deterioration in the quality of groundwater at the down gradient site boundary, 60 m from the boundary of the waste.

These results are interpreted as showing that the landfill is not likely to result in unacceptable impacts to the water environment including groundwater or surface water supported by such groundwater over the reasonable long term lifetime of the facility.

3.6.1 Predicted Boundary Monitoring Well Concentration

Table 3.17 shows the maximum predicted concentrations of the determinants at the edge of the landfill 100 years following the cessation of management controls. This period of 100 years is considered appropriate as this represents the early lifetime of the site.

Table 3.17: Predicted Cell Boundary Monitoring Well Concentrations

Determinant	Predicted Max Concentrations at Landfill Monitoring Well (Cell 13)	
	50th Percentile	95th Percentile
Ammoniacal Nitrogen	0.0011	0.0121
Copper	0	0

Ammoniacal Nitrogen is predicted to be detectable in groundwater at the cell boundary at low concentrations an order of magnitude below the EAL of 0.39 mg/l as N. There is no predicted breakthrough of copper at the same location.

3.7 Hydrogeological Completion Criteria

Completion relating to hydrogeological risks will have been achieved when there are no further risks of pollution from the landfill, i.e. when the site can comply with the requirements of the Groundwater Directive, without the need for any active management.

The model undertaken represents the entire lifecycle of the site, including defects and the degradation of the lining system, and the predicted leachate quality and levels in the site following the cessation of management controls.

The predicted leachate quality and levels at the cessation of management controls are presented as preliminary completion criteria using ammoniacal nitrogen as the key leachate indicator. Future monitoring of leachate and groundwater of the site will be used to validate the model and completion criteria will be revised if required. The predicted range of ammoniacal nitrogen concentration in leachate 25 years following restoration (54 years following commencement of landfilling) is presented in **Table 3.18**.

Table 3.18: Completion Criteria for Ammoniacal Nitrogen in Leachate

Determinant	Inert Cells		Non-Hazardous Cells	
	50^{th}%ile	95^{th}%ile	50^{th}%ile	95^{th}%ile
Ammoniacal Nitrogen	7.3 – 10.5	10.7 – 13.1	17.5 – 20.3	23.9 – 28.0

The maximum predicted leachate heads after the cessation of management controls are presented in **Table 3.19**.

Table 3.19: Completion Criteria for Leachate Heads in Cells

Cell	Phase	50th%ile head on EBS (m)	95th%ile head on EBS (m)
6	6	1.05	1.09
7	7	1.09	1.14
8	8	1.02	1.06
9	9	1.00	1.07
10	10	1.00	1.00
11	11	1.05	1.16
12	12	1.30	1.38
	13	1.35	1.49
13	14a	1.19	1.32
	14b	1.36	1.50
	15	1.44	1.56

4 CONCLUSIONS

4.1 Compliance with the Landfill Regulations

Due to the likely presence of hazardous and non-hazardous substances in leachate, the landfill has been engineered to include a leachate drainage and collection system as required by the Landfill Regulations (2002) for non-hazardous landfills. Leachate generated from the landfill will be collected.

4.2 Compliance with the Groundwater Regulations

The Groundwater Regulations 1998, amended apply to the site due to the non-hazardous classification of the waste deposited at the site and the likely presence of hazardous and non-hazardous substances in the landfill leachate, which could potentially discharge to groundwater.

Previous investigations at the site have been used to develop the conceptual understanding of the hydrogeological system, which has formed the basis of the risk assessment.

The engineering of the proposed landfill has been designed with the aim of preventing the discharge of hazardous substances and pollution by non-hazardous substances. The results of the risk assessments show that hazardous substances in leachate are highly likely to be prevented from discharging to groundwater directly surrounding the site and that non-hazardous substances released into groundwater will not lead to unacceptable impacts at the down gradient site boundary.

Technical precautions have been outlined for the site, including leachate control measures, construction and maintenance of a low permeability cap and lining system.

Requisite surveillance in the form of risk-based leachate and groundwater monitoring will be undertaken at the site, as part of an Environmental Monitoring Plan. This will ensure that any impact from the landfill will be detected and remedial action taken before any significant impact to groundwater can occur.

Appendix A

LandSim Model Input Parameters

Calculation Settings

Number of iterations: 201

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: 29, 54, 154, 1054

Decline in Contaminant Concentration in Leachate

Ammoniacal_N	Non-Volatile
c (kg/l): 0.59	m (kg/l): 0
Cadmium	Non-Volatile
c (kg/l): 0.1589	m (kg/l): 0.0823
Copper	Non-Volatile
c (kg/l): -0.0488	m (kg/l): 0.0664
Naphthalene	Non-Volatile
c (kg/l): 0.2919	m (kg/l): 0.0298

Contaminant Half-lives (years)

Unsaturated Pathway:	
Ammoniacal_N	UNIFORM(5,10)
Cadmium	SINGLE(1e+009)
Copper	SINGLE(1e+009)
Naphthalene	LOGUNIFORM(1,10)
Aquifer Pathway:	
Ammoniacal_N	UNIFORM(5,10)
Cadmium	SINGLE(1e+009)
Copper	SINGLE(1e+009)
Naphthalene	LOGUNIFORM(1,10)

Background Concentrations of Contaminants

Justification for Contaminant Properties

Unjustified value

All units in milligrams per litre

Phase: Cell 6

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	2

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 54

Cell dimensions

Cell width (m):	53
Cell length (m):	134
Cell top area (ha):	1.7898
Cell base area (ha):	0.7102
Number of cells:	1
Total base area (ha):	0.7102
Total top area (ha):	1.7898
Head of Leachate when surface water breakout occurs (m)	SINGLE(21)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(32)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(2,20)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,4e-006,4e-005)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.002,0.02)
Naphthalene	LOGTRIANGULAR(1e-030,0.031,0.31)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate
Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head
Unjustified value

Barrier Information

There is a single clay barrier

Justification for Engineered Barrier Type
Unjustified value

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)

Justification for Clay: Liner Thickness
Unjustified value

Hydraulic conductivity of liner (m/s):	LOGUNIFORM(5e-010,1e-009)
Pathway longitudinal dispersivity (m):	SINGLE(0.1)

Justification for Clay: Hydraulics Properties
Unjustified value

Retardation parameters for clay liner

Uncertainty in Kd (l/kg):	
Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Bedrock pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Bedrock pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species

Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(1191.5,1348.5)
Pathway width (m):	SINGLE(194)

Phase: Cell 7

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	2

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 52

Cell dimensions

Cell width (m):	150
Cell length (m):	67
Cell top area (ha):	3.1832
Cell base area (ha):	1.005
Number of cells:	1
Total base area (ha):	1.005
Total top area (ha):	3.1832
Head of Leachate when surface water breakout occurs (m)	SINGLE(21)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(25)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	UNIFORM(2,20)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,4e-006,4e-005)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.002,0.02)
Naphthalene	LOGTRIANGULAR(1e-030,0.031,0.31)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate
Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head
Unjustified value

Barrier Information

There is a single clay barrier

Justification for Engineered Barrier Type
Unjustified value

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)

Justification for Clay: Liner Thickness
Unjustified value

Hydraulic conductivity of liner (m/s):	LOGUNIFORM(5e-010,1e-009)
Pathway longitudinal dispersivity (m):	SINGLE(0.1)

Justification for Clay: Hydraulics Properties
Unjustified value

Retardation parameters for clay liner

Uncertainty in Kd (l/kg):	
Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s): LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m): UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species

Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(1194.5,1305.5)
Pathway width (m):	SINGLE(211)

Phase: Cell 8

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	4

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 48

Cell dimensions

Cell width (m):	57
Cell length (m):	160
Cell top area (ha):	1.998
Cell base area (ha):	0.912
Number of cells:	1
Total base area (ha):	0.912
Total top area (ha):	1.998
Head of Leachate when surface water breakout occurs (m)	SINGLE(21)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(25)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(2,20)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,4e-006,4e-005)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.002,0.02)
Naphthalene	LOGTRIANGULAR(1e-030,0.031,0.31)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate
Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head
Unjustified value

Barrier Information

There is a single clay barrier

Justification for Engineered Barrier Type
Unjustified value

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)

Justification for Clay: Liner Thickness
Unjustified value

Hydraulic conductivity of liner (m/s):	LOGUNIFORM(5e-010,1e-009)
Pathway longitudinal dispersivity (m):	SINGLE(0.1)

Justification for Clay: Hydraulics Properties
Unjustified value

Retardation parameters for clay liner

Uncertainty in Kd (l/kg):	
Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s): LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m): UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species

Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(998,1182)
Pathway width (m):	SINGLE(252)

Phase: Cell 9

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	3

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 50

Cell dimensions

Cell width (m):	115
Cell length (m):	163
Cell top area (ha):	3.8805
Cell base area (ha):	1.8745
Number of cells:	1
Total base area (ha):	1.8745
Total top area (ha):	3.8805
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(19)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head

Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(573,727)
Pathway width (m):	SINGLE(284)

Phase: Cell 10

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	3

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 51

Cell dimensions

Cell width (m):	125
Cell length (m):	113
Cell top area (ha):	4.1405
Cell base area (ha):	1.4125
Number of cells:	1
Total base area (ha):	1.4125
Total top area (ha):	4.1405
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(24)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head

Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(558,802)
Pathway width (m):	SINGLE(279)

Phase: Cell 11

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	3

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 44

Cell dimensions

Cell width (m):	199
Cell length (m):	63
Cell top area (ha):	4.2714
Cell base area (ha):	1.2537
Number of cells:	1
Total base area (ha):	1.2537
Total top area (ha):	4.2714
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(28)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate
Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head
Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(582,918)
Pathway width (m):	SINGLE(357)

Phase: Cell 12

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	3

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 41

Cell dimensions

Cell width (m):	58
Cell length (m):	118
Cell top area (ha):	4.7402
Cell base area (ha):	0.6844
Number of cells:	1
Total base area (ha):	0.6844
Total top area (ha):	4.7402
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(35)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head

Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	UNIFORM(1.6,1500)
Copper	UNIFORM(127,295)

Naphthalene: Calculated kd

Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(1013.5,1186.5)
Pathway width (m):	SINGLE(324)

Phase: Cell 13

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	2

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 38

Cell dimensions

Cell width (m):	42
Cell length (m):	114
Cell top area (ha):	3.78
Cell base area (ha):	0.4788
Number of cells:	1
Total base area (ha):	0.4788
Total top area (ha):	3.78
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(34)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head

Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	UNIFORM(0.005,0.05)
Pathway Density (kg/l):	UNIFORM(2,2.5)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(960.5,999.5)
Pathway width (m):	SINGLE(282)

Phase: Cell 14a

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	2

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 36

Cell dimensions

Cell width (m):	122
Cell length (m):	43
Cell top area (ha):	2.8016
Cell base area (ha):	0.5246
Number of cells:	1
Total base area (ha):	0.5246
Total top area (ha):	2.8016
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(30)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head

Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(602.5,857.5)
Pathway width (m):	SINGLE(273)

Phase: Cell 15

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	7

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 33

Cell dimensions

Cell width (m):	84
Cell length (m):	71
Cell top area (ha):	5.7828
Cell base area (ha):	0.5964
Number of cells:	1
Total base area (ha):	0.5964
Total top area (ha):	5.7828
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(31)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate

Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head

Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	TRIANGULAR(2,3,4)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(711.5,948.5)
Pathway width (m):	SINGLE(340)

Phase: Cell 14b

Infiltration Information

Cap design infiltration (mm/year):	SINGLE(23)
Infiltration to waste (mm/year):	SINGLE(758)
End of filling (years from start of waste deposit):	1

Justification for Specified Infiltration
Unjustified value

Duration of management control (years from the start of waste disposal): 36

Cell dimensions

Cell width (m):	40
Cell length (m):	72
Cell top area (ha):	2.4012
Cell base area (ha):	0.288
Number of cells:	1
Total base area (ha):	0.288
Total top area (ha):	2.4012
Head of Leachate when surface water breakout occurs (m)	SINGLE(11)
Waste porosity (fraction)	SINGLE(0.3)
Final waste thickness (m):	SINGLE(29)
Field capacity (fraction):	SINGLE(0.0285)
Waste density (kg/l)	SINGLE(1.9)

Justification for Landfill Geometry
Unjustified value

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGUNIFORM(5,50)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(1e-030,0.001,0.01)
	Substance to be treated as List 1
Copper	LOGTRIANGULAR(1e-030,0.05,0.5)
Naphthalene	LOGTRIANGULAR(1e-030,0.31,3.1)
	Substance to be treated as List 1

Justification for Species Concentration in Leachate
Unjustified value

Drainage Information

Fixed Head.

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

Justification for Specified Head
Unjustified value

Barrier Information

There is a composite barrier

Justification for Engineered Barrier Type
Unjustified value

Liner NOT installed under CQA

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	UNIFORM(1.9,2.1)
Pathway moisture content (fraction):	SINGLE(0.13)
Onset of FML degradation (years since filling commenced)	150
Pathway longitudinal dispersivity (m):	SINGLE(0.1)
Time for area of defects to double (years)	100

Membrane defects (number per hectare):

Pin holes:	Minimum 0, Maximum 750
Holes:	Minimum 0, Maximum 150
Tears:	Minimum 0, Most Likely 0.5, Maximum 10

The most likely value for the PDFs representing the density of pinholes and holes will move from the minimum value selected above to the maximum value selected above over the time period before FML degradation commences

Justification for Composite: Flexible Membrane Liner
Unjustified value

Hydraulic conductivity of mineral lower liner (m/s): SINGLE(1e-009)

Justification for Composite: Clay or BES Substrate Properties
Unjustified value

Retardation parameters for clay liner
Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Liner Kd Values by Species
Unjustified value

Namurian pathway parameters

Modelled as unsaturated pathway

Pathway length (m):	UNIFORM(1,3)
Flow Model:	porous medium
Pathway moisture content (fraction):	SINGLE(0.2)
Pathway Density (kg/l):	SINGLE(2.2)

Justification for Unsat Zone Geometry
Unjustified value

Pathway hydraulic conductivity values (m/s): LOGUNIFORM(1e-006,1e-005)

Justification for Unsat Zone Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m): UNIFORM(0.1,0.3)

Justification for Unsat Zone Dispersion Properties
Unjustified value

Retardation parameters for Namurian pathway

Modelled as unsaturated pathway

Uncertainty in Kd (l/kg):

Ammoniacal_N	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Kd Values by Species
Unjustified value

Aquifer Pathway Dimensions for Phase

Pathway length (m):	UNIFORM(599.5,700.5)
Pathway width (m):	SINGLE(230)

pathway parameters

No Vertical Pathway

Bedrock pathway parameters

Modelled as aquifer pathway.

Mixing zone (m):	UNIFORM(5,10)

Justification for Aquifer Geometry
Unjustified value

Pathway regional gradient (-):	UNIFORM(0.04,0.06)
Pathway hydraulic conductivity values (m/s):	LOGUNIFORM(1e-005,0.0001)
Pathway porosity (fraction):	LOGUNIFORM(0.01,0.1)

Justification for Aquifer Hydraulics Properties
Unjustified value

Pathway longitudinal dispersivity (m):	SINGLE(10)
Pathway transverse dispersivity (m):	SINGLE(1)

Justification for Aquifer Dispersion Details
Unjustified value

Retardation parameters for Bedrock pathway
Modelled as aquifer pathway.
Uncertainty in Kd (l/kg):

Ammoniacal_N: Calculated kd	
Partition to Organic Carbon ml/g	UNIFORM(0.5,2)
Cadmium	LOGUNIFORM(1.6,1500)
Copper	UNIFORM(127,295)
Naphthalene: Calculated kd	
Partition to Organic Carbon ml/g	SINGLE(1288)
Fraction of Organic Carbon (fraction)	SINGLE(0.001)

Justification for Aquifer Kd Values by Species
Unjustified value

Pathway Density (kg/l):	UNIFORM(2,2.5)

Appendix B

LandSim Model Results

Concentration of Ammoniacal_N in groundwater [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.40617E-016
95% of values less than 2.378E-015

Minimum 0	Maximum 3.31773E-010	
Mean 1.79228E-012	Std. Dev. 2.34552E-011	Variance 5.50147E-022

At 54 years

05% of values less than 1.11986E-014
10% of values less than 1.69905E-013
50% of values less than 1.47668E-009
90% of values less than 4.11675E-007
95% of values less than 1.31736E-006

Minimum 3.0694E-017	Maximum 5.38538E-005	
Mean 5.87768E-007	Std. Dev. 4.24458E-006	Variance 1.80165E-011

At 154 years

05% of values less than 3.65941E-007
10% of values less than 8.91544E-007
50% of values less than 1.7469E-005
90% of values less than 0.000192729
95% of values less than 0.000300181

Minimum 2.83236E-008	Maximum 0.000579192	
Mean 6.39619E-005	Std. Dev. 0.000104968	Variance 1.10183E-008

At 1054 years

05% of values less than 8.7832E-007
10% of values less than 1.65799E-006
50% of values less than 2.58286E-005
90% of values less than 0.000228749
95% of values less than 0.000291277

Minimum 4.89114E-008	Maximum 0.0006668	
Mean 7.24945E-005	Std. Dev. 0.000114313	Variance 1.30676E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 7.06887E-018
90% of values less than 7.16374E-015
95% of values less than 1.05388E-013

Minimum 0	Maximum 1.61049E-005	
Mean 8.06635E-008	Std. Dev. 1.13594E-006	Variance 1.29036E-012

Concentration of Cadmium in groundwater [mg/l]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.58045E-017
95% of values less than 5.61519E-012

Minimum 0	Maximum 5.7231E-007	
Mean 4.42664E-009	Std. Dev. 4.41024E-008	Variance 1.94502E-015

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 4.02364E-012
90% of values less than 3.19405E-007
95% of values less than 6.93835E-007

Minimum 0	Maximum 3.95014E-006	
Mean 1.29223E-007	Std. Dev. 4.39896E-007	Variance 1.93508E-013

Concentration of Copper in groundwater [mg/l]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.40184E-011
90% of values less than 4.33393E-007
95% of values less than 2.21796E-006

Minimum 0	Maximum 1.52078E-005	
Mean 4.0641E-007	Std. Dev. 1.66502E-006	Variance 2.77231E-012

Concentration of Naphthalene in groundwater [mg/l]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 1.63843E-018	
Mean 8.7531E-021	Std. Dev. 1.15683E-019	Variance 1.33825E-038

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.50015E-014
95% of values less than 8.61209E-014

Minimum 0	Maximum 5.02426E-011	
Mean 8.81716E-013	Std. Dev. 5.72429E-012	Variance 3.27674E-023

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.91756E-014
95% of values less than 1.9346E-013

Minimum 0	Maximum 4.99277E-010	
Mean 5.22353E-012	Std. Dev. 4.3711E-011	Variance 1.91065E-021

At infinity

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 2.27551E-017

Minimum 0	Maximum 9.12779E-015	
Mean 7.23276E-017	Std. Dev. 7.02785E-016	Variance 4.93907E-031

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

05% of values less than 210
10% of values less than 232
50% of values less than 256
90% of values less than 282
95% of values less than 282

Minimum 210	Maximum 344	
Mean 248.119	Std. Dev. 22.056	Variance 486.466

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

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

Minimum 0	Maximum 20000	
Mean 14888.4	Std. Dev. 8134.46	Variance 6.61695E+007

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

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

Minimum 0	Maximum 20000	
Mean 17114.4	Std. Dev. 7044.99	Variance 4.96318E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 312
95% of values less than 344

Minimum 0	Maximum 2050	
Mean 129.95	Std. Dev. 229.712	Variance 52767.5

Phase: Cell 6

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 4.86603
10% of values less than 5.36987
50% of values less than 7.37227
90% of values less than 9.96959
95% of values less than 10.7662

Minimum 3.46357	Maximum 15.1583	
Mean 7.53581	Std. Dev. 1.85639	Variance 3.44617

At 54 years

05% of values less than 4.82781
10% of values less than 5.32753
50% of values less than 7.31551
90% of values less than 9.89118
95% of values less than 10.6833

Minimum 3.43613	Maximum 15.0393	
Mean 7.47678	Std. Dev. 1.84194	Variance 3.39275

At 154 years

05% of values less than 4.67808
10% of values less than 5.1615
50% of values less than 7.08955
90% of values less than 9.5839
95% of values less than 10.367

Minimum 3.3285	Maximum 14.5734	
Mean 7.24675	Std. Dev. 1.7859	Variance 3.18943

At 1054 years

05% of values less than 3.50879
10% of values less than 3.87138
50% of values less than 5.31751
90% of values less than 7.1884
95% of values less than 7.77582

Minimum 2.49654	Maximum 10.9308	
Mean 5.43543	Std. Dev. 1.33951	Variance 1.79429

At infinity

05% of values less than 0.00823494
10% of values less than 0.00908593
50% of values less than 0.0124799
90% of values less than 0.0168708
95% of values less than 0.0182494

Minimum 0.00585924	Maximum 0.025654	
Mean 0.0127567	Std. Dev. 0.00314377	Variance 9.88327E-006

Phase: Cell 6

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 2.66017E-025
10% of values less than 1.51379E-022
50% of values less than 2.48551E-013
90% of values less than 5.21491E-007
95% of values less than 2.01957E-006

Minimum 2.52003E-028	Maximum 1.58451E-005	
Mean 3.92529E-007	Std. Dev. 1.64389E-006	Variance 2.70239E-012

At 54 years

05% of values less than 2.66017E-025
10% of values less than 1.51379E-022
50% of values less than 2.48551E-013
90% of values less than 5.21491E-007
95% of values less than 2.01957E-006

Minimum 2.52003E-028	Maximum 1.58451E-005	
Mean 3.92529E-007	Std. Dev. 1.64389E-006	Variance 2.70239E-012

At 154 years

05% of values less than 2.66017E-025
10% of values less than 1.51379E-022
50% of values less than 2.48551E-013
90% of values less than 5.21491E-007
95% of values less than 2.01957E-006

Minimum 2.52003E-028	Maximum 1.58451E-005	
Mean 3.92529E-007	Std. Dev. 1.64389E-006	Variance 2.70239E-012

At 1054 years

05% of values less than 2.66017E-025
10% of values less than 1.51379E-022
50% of values less than 2.48551E-013
90% of values less than 5.21491E-007
95% of values less than 2.01957E-006

Minimum 2.52003E-028	Maximum 1.58451E-005	
Mean 3.92529E-007	Std. Dev. 1.64389E-006	Variance 2.70239E-012

At infinity

05% of values less than 2.66017E-025
10% of values less than 1.51379E-022
50% of values less than 2.48551E-013
90% of values less than 5.21491E-007
95% of values less than 2.01957E-006

Minimum 2.52003E-028	Maximum 1.58451E-005	
Mean 3.92529E-007	Std. Dev. 1.64389E-006	Variance 2.70239E-012

Phase: Cell 6

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 2.27181E-023
10% of values less than 6.54462E-022
50% of values less than 3.16113E-010
90% of values less than 0.000178514
95% of values less than 0.00165654

Minimum 1.72991E-029	Maximum 0.0101306	
Mean 0.000287752	Std. Dev. 0.00117229	Variance 1.37426E-006

At 54 years

05% of values less than 2.27181E-023
10% of values less than 6.54462E-022
50% of values less than 3.16113E-010
90% of values less than 0.000178514
95% of values less than 0.00165654

Minimum 1.72991E-029	Maximum 0.0101163	
Mean 0.000287556	Std. Dev. 0.00117112	Variance 1.37152E-006

At 154 years

05% of values less than 2.27181E-023
10% of values less than 6.54462E-022
50% of values less than 3.16113E-010
90% of values less than 0.000178514
95% of values less than 0.00165654

Minimum 1.72991E-029	Maximum 0.0100594	
Mean 0.000286779	Std. Dev. 0.00116648	Variance 1.36068E-006

At 1054 years

05% of values less than 2.27181E-023
10% of values less than 6.54462E-022
50% of values less than 3.16113E-010
90% of values less than 0.000178514
95% of values less than 0.00165654

Minimum 1.72991E-029	Maximum 0.00955656	
Mean 0.000279783	Std. Dev. 0.0011252	Variance 1.26607E-006

At infinity

05% of values less than 2.27181E-023
10% of values less than 6.54462E-022
50% of values less than 3.16113E-010
90% of values less than 0.000178514
95% of values less than 0.00165654

Minimum 1.72991E-029	Maximum 0.0032473	
Mean 0.000178907	Std. Dev. 0.000598295	Variance 3.57957E-007

Phase: Cell 6

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 9.9566E-025
10% of values less than 3.19726E-021
50% of values less than 6.24131E-011
90% of values less than 0.00366854
95% of values less than 0.0301298

Minimum 4.14269E-029	Maximum 0.175775	
Mean 0.00456333	Std. Dev. 0.0192802	Variance 0.000371727

At 54 years

05% of values less than 9.9566E-025
10% of values less than 3.19726E-021
50% of values less than 6.24131E-011
90% of values less than 0.0036521
95% of values less than 0.0299699

Minimum 4.14269E-029	Maximum 0.174714	
Mean 0.004538	Std. Dev. 0.0191685	Variance 0.000367433

At 154 years

05% of values less than 9.9566E-025
10% of values less than 3.19726E-021
50% of values less than 6.24131E-011
90% of values less than 0.00358712
95% of values less than 0.0293388

Minimum 4.14269E-029	Maximum 0.170536	
Mean 0.00443837	Std. Dev. 0.0187291	Variance 0.000350777

At 1054 years

05% of values less than 9.9566E-025
10% of values less than 3.19726E-021
50% of values less than 6.24131E-011
90% of values less than 0.00305266
95% of values less than 0.0242145

Minimum 4.14269E-029	Maximum 0.137187	
Mean 0.00362444	Std. Dev. 0.0151709	Variance 0.000230157

At infinity

05% of values less than 9.9566E-025
10% of values less than 3.19726E-021
50% of values less than 6.24131E-011
90% of values less than 0.000102251
95% of values less than 0.00042572

Minimum 4.14269E-029	Maximum 0.00140569	
Mean 5.38234E-005	Std. Dev. 0.00018629	Variance 3.47038E-008

Phase: Cell 6

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.000932107
10% of values less than 0.00383076
50% of values less than 0.0447883
90% of values less than 0.544643
95% of values less than 0.748574

Minimum 0.000158012	Maximum 1.50776	
Mean 0.17028	Std. Dev. 0.271837	Variance 0.0738953

At 54 years

05% of values less than 0.0121629
10% of values less than 0.0183738
50% of values less than 0.12227
90% of values less than 0.736922
95% of values less than 0.864114

Minimum 0.0019824	Maximum 1.84161	
Mean 0.260164	Std. Dev. 0.320315	Variance 0.102602

At 154 years

05% of values less than 0.0190782
10% of values less than 0.0285687
50% of values less than 0.154643
90% of values less than 0.786709
95% of values less than 0.90788

Minimum 0.00475261	Maximum 2.03474	
Mean 0.291242	Std. Dev. 0.328987	Variance 0.108233

At 1054 years

05% of values less than 0.00721433
10% of values less than 0.0120078
50% of values less than 0.0846565
90% of values less than 0.510797
95% of values less than 0.637184

Minimum 0.000301914	Maximum 1.257	
Mean 0.183896	Std. Dev. 0.228764	Variance 0.0523329

At infinity

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 0.0315507

Minimum 0	Maximum 0.166341	
Mean 0.00448839	Std. Dev. 0.0194558	Variance 0.000378529

Phase: Cell 6

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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 1.91248E-016

Minimum 0	Maximum 2.65352E-007	
Mean 1.3399E-009	Std. Dev. 1.87171E-008	Variance 3.50329E-016

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.41749E-015
95% of values less than 4.12257E-013

Minimum 0	Maximum 3.28781E-006	
Mean 1.74089E-008	Std. Dev. 2.32102E-007	Variance 5.38714E-014

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.44558E-011
95% of values less than 1.86054E-009

Minimum 0	Maximum 8.90443E-006	
Mean 6.80184E-008	Std. Dev. 6.56112E-007	Variance 4.30483E-013

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.4807E-009
95% of values less than 1.11699E-006

Minimum 0	Maximum 1.03449E-005	
Mean 2.40931E-007	Std. Dev. 1.21408E-006	Variance 1.47398E-012

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.63366E-013
90% of values less than 2.61515E-007
95% of values less than 2.01957E-006

Minimum 0	Maximum 1.58451E-005	
Mean 3.74437E-007	Std. Dev. 1.64118E-006	Variance 2.69347E-012

Phase: Cell 6

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.18766E-012
95% of values less than 5.89272E-011

Minimum 0	Maximum 5.59736E-010	
Mean 1.2385E-011	Std. Dev. 5.831E-011	Variance 3.40006E-021

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.96593E-010
90% of values less than 0.000163464
95% of values less than 0.00152838

Minimum 0	Maximum 0.00533797	
Mean 0.000203309	Std. Dev. 0.000731994	Variance 5.35816E-007

Phase: Cell 6

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 2.711E-014		
90% of values less than 2.01858E-006		
95% of values less than 5.90976E-005		
Minimum 0	Maximum 0.00343271	
Mean 2.6282E-005	Std. Dev. 0.000245864	Variance 6.04492E-008

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.95631E-014		
90% of values less than 4.48189E-006		
95% of values less than 8.53696E-005		
Minimum 0	Maximum 0.00590843	
Mean 4.86796E-005	Std. Dev. 0.000425298	Variance 1.80878E-007

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.18632E-014		
90% of values less than 4.41108E-006		
95% of values less than 9.25581E-005		
Minimum 0	Maximum 0.00589625	
Mean 5.20682E-005	Std. Dev. 0.000427642	Variance 1.82877E-007

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.57418E-014		
90% of values less than 3.3776E-006		
95% of values less than 6.10997E-005		
Minimum 0	Maximum 0.00483003	
Mean 3.92377E-005	Std. Dev. 0.000346817	Variance 1.20282E-007

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 7.37354E-011		
95% of values less than 5.43939E-009		
Minimum 0	Maximum 0.000341592	
Mean 1.70902E-006	Std. Dev. 2.40934E-005	Variance 5.80494E-010

Phase: Cell 6

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.54483E-012
95% of values less than 3.81685E-010

Minimum 0	Maximum 1.46845E-007	
Mean 2.21665E-009	Std. Dev. 1.38474E-008	Variance 1.91751E-016

At 54 years

05% of values less than 0
10% of values less than 7.57381E-016
50% of values less than 7.58456E-010
90% of values less than 5.56278E-006
95% of values less than 4.00367E-005

Minimum 0	Maximum 0.000510577	
Mean 1.38224E-005	Std. Dev. 6.31514E-005	Variance 3.9881E-009

At 154 years

05% of values less than 4.53107E-008
10% of values less than 8.9783E-008
50% of values less than 1.45491E-005
90% of values less than 0.000585979
95% of values less than 0.00159393

Minimum 1.6139E-009	Maximum 0.00838829	
Mean 0.000314729	Std. Dev. 0.000996235	Variance 9.92484E-007

At 1054 years

05% of values less than 7.01299E-008
10% of values less than 1.48059E-007
50% of values less than 1.54558E-005
90% of values less than 0.000638604
95% of values less than 0.00203009

Minimum 3.22941E-009	Maximum 0.00751591	
Mean 0.000299071	Std. Dev. 0.000894832	Variance 8.00724E-007

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 9.96321E-009
95% of values less than 3.54257E-006

Minimum 0	Maximum 0.000369609	
Mean 5.98799E-006	Std. Dev. 3.88506E-005	Variance 1.50937E-009

Phase: Cell 6

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 4.32756E-013	
Mean 2.15301E-015	Std. Dev. 3.05242E-014	Variance 9.31728E-028

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.22292E-015
95% of values less than 1.2168E-009

Minimum 0	Maximum 1.69151E-006	
Mean 1.3957E-008	Std. Dev. 1.38119E-007	Variance 1.90768E-014

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 4.58103E-016
90% of values less than 1.12891E-007
95% of values less than 1.11699E-006

Minimum 0	Maximum 1.58449E-005	
Mean 2.9784E-007	Std. Dev. 1.53554E-006	Variance 2.35788E-012

Phase: Cell 6

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.99581E-012
90% of values less than 2.65447E-006
95% of values less than 2.22271E-005

Minimum 0	Maximum 0.000845434	
Mean 8.95142E-006	Std. Dev. 6.46407E-005	Variance 4.17842E-009

Phase: Cell 6

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

At 29 years

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

Minimum 0	Maximum 1.40236E-015	
Mean 6.97691E-018	Std. Dev. 9.89147E-017	Variance 9.78412E-033

At 54 years

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 1.81445E-014

Minimum 0	Maximum 4.27069E-010	
Mean 2.26571E-012	Std. Dev. 3.01578E-011	Variance 9.09496E-022

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 7.39618E-014
95% of values less than 5.32448E-011

Minimum 0	Maximum 2.83353E-007	
Mean 1.61866E-009	Std. Dev. 2.00626E-008	Variance 4.02509E-016

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 7.22081E-014
95% of values less than 6.24013E-011

Minimum 0	Maximum 2.83586E-007	
Mean 1.69998E-009	Std. Dev. 2.01533E-008	Variance 4.06155E-016

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.66525E-016
95% of values less than 1.37262E-014

Minimum 0	Maximum 7.5242E-011	
Mean 5.48556E-013	Std. Dev. 5.59475E-012	Variance 3.13012E-023

Phase: Cell 6

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

05% of values less than 172
10% of values less than 210
50% of values less than 282
90% of values less than 312
95% of values less than 312

Minimum 156	Maximum 380	
Mean 264.577	Std. Dev. 43.2725	Variance 1872.51

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

05% of values less than 0
10% of values less than 0
50% of values less than 12189
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 10071.8	Std. Dev. 9504.18	Variance 9.03294E+007

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

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

Minimum 0	Maximum 20000	
Mean 13333.3	Std. Dev. 9451.63	Variance 8.93333E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 256
95% of values less than 312

Minimum 0	Maximum 1523	
Mean 97.3582	Std. Dev. 264.135	Variance 69767.1

Phase: Cell 6

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

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 9.82235E-015		
95% of values less than 8.4655E-013		
Minimum 0	Maximum 4.3759E-010	
Mean 7.52219E-012	Std. Dev. 4.94284E-011	Variance 2.44316E-021

At 54 years

05% of values less than 0		
10% of values less than 5.66596E-019		
50% of values less than 1.76898E-012		
90% of values less than 1.37505E-008		
95% of values less than 2.49946E-007		
Minimum 0	Maximum 4.37088E-006	
Mean 7.69416E-008	Std. Dev. 4.3501E-007	Variance 1.89234E-013

At 154 years

05% of values less than 1.26641E-010		
10% of values less than 4.45392E-010		
50% of values less than 7.04843E-008		
90% of values less than 3.14399E-006		
95% of values less than 8.90964E-006		
Minimum 9.55276E-012	Maximum 9.49717E-005	
Mean 2.24925E-006	Std. Dev. 9.05277E-006	Variance 8.19527E-011

At 1054 years

05% of values less than 6.50964E-010		
10% of values less than 1.24432E-009		
50% of values less than 1.04087E-007		
90% of values less than 4.44006E-006		
95% of values less than 1.11706E-005		
Minimum 3.49497E-011	Maximum 9.32435E-005	
Mean 2.34184E-006	Std. Dev. 8.80018E-006	Variance 7.74431E-011

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 2.80521E-010		
95% of values less than 4.55762E-008		
Minimum 0	Maximum 3.10173E-006	
Mean 3.39588E-008	Std. Dev. 2.48278E-007	Variance 6.1642E-014

Phase: Cell 6

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 9.08985E-019
95% of values less than 3.51483E-014

Minimum 0	Maximum 4.80964E-009	
Mean 2.49878E-011	Std. Dev. 3.39374E-010	Variance 1.15175E-019

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.99443E-018
90% of values less than 2.29311E-010
95% of values less than 4.31432E-009

Minimum 0	Maximum 2.18164E-007	
Mean 2.55291E-009	Std. Dev. 1.80411E-008	Variance 3.25481E-016

Phase: Cell 6

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.24208E-015
90% of values less than 7.4848E-009
95% of values less than 5.29853E-008

Minimum 0	Maximum 7.03192E-006	
Mean 4.89676E-008	Std. Dev. 5.01026E-007	Variance 2.51027E-013

Phase: Cell 6

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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 2.44051E-018

Minimum 0	Maximum 1.69621E-013	
Mean 8.51919E-016	Std. Dev. 1.19637E-014	Variance 1.43131E-028

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.16801E-016
95% of values less than 3.55668E-014

Minimum 0	Maximum 8.59873E-011	
Mean 1.01299E-012	Std. Dev. 8.57799E-012	Variance 7.3582E-023

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.98115E-016
95% of values less than 4.15525E-014

Minimum 0	Maximum 9.94509E-011	
Mean 1.31219E-012	Std. Dev. 1.03716E-011	Variance 1.07571E-022

At infinity

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 1.47837E-017

Minimum 0	Maximum 1.17182E-013	
Mean 7.72097E-016	Std. Dev. 8.39519E-015	Variance 7.04792E-029

Phase: Cell 6

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

05% of values less than 190
10% of values less than 232
50% of values less than 312
90% of values less than 344
95% of values less than 344

Minimum 156	Maximum 420	
Mean 291.562	Std. Dev. 48.9535	Variance 2396.45

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

05% of values less than 0
10% of values less than 0
50% of values less than 13458
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 10227.5	Std. Dev. 9726.24	Variance 9.45997E+007

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

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

Minimum 0	Maximum 20000	
Mean 12935.3	Std. Dev. 9583.36	Variance 9.18408E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 282
95% of values less than 344

Minimum 0	Maximum 1681	
Mean 97.2338	Std. Dev. 284.06	Variance 80690.3

Phase: Cell 6

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 0
10% of values less than 9.29515
50% of values less than 249.085
90% of values less than 450.681
95% of values less than 485.371

Minimum 0	Maximum 512.824	
Mean 236.982	Std. Dev. 157.365	Variance 24763.7

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 6

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1
10% of values less than 1.00168
50% of values less than 1.045
90% of values less than 1.08135
95% of values less than 1.0876

Minimum 1	Maximum 1.09254	
Mean 1.0428	Std. Dev. 0.0284023	Variance 0.000806693

At 154 years

05% of values less than 0.936368
10% of values less than 1.01663
50% of values less than 1.56725
90% of values less than 2.32954
95% of values less than 2.50778

Minimum 0.851369	Maximum 2.66248	
Mean 1.60772	Std. Dev. 0.488737	Variance 0.238864

At 1054 years

05% of values less than 0.936367
10% of values less than 1.01663
50% of values less than 1.56742
90% of values less than 2.33265
95% of values less than 2.51282

Minimum 0.851368	Maximum 2.66983	
Mean 1.60863	Std. Dev. 0.490065	Variance 0.240164

At infinity

05% of values less than 0.936367
10% of values less than 1.01663
50% of values less than 1.56742
90% of values less than 2.33265
95% of values less than 2.51282

Minimum 0.851368	Maximum 2.66983	
Mean 1.60863	Std. Dev. 0.490065	Variance 0.240164

Phase: Cell 6

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 6

Leakage through EBS [l/day]

At 29 years

05% of values less than 641.676
10% of values less than 676.367
50% of values less than 877.963
90% of values less than 1117.75
95% of values less than 1127.05

Minimum 614.223	Maximum 1127.05	
Mean 890.066	Std. Dev. 157.365	Variance 24763.7

At 54 years

05% of values less than 669.781
10% of values less than 703.877
50% of values less than 897.716
90% of values less than 1118.69
95% of values less than 1164.08

Minimum 642.644	Maximum 1217.53	
Mean 911.161	Std. Dev. 155.138	Variance 24067.7

At 154 years

05% of values less than 1125.43
10% of values less than 1125.99
50% of values less than 1126.98
90% of values less than 1127.05
95% of values less than 1127.05

Minimum 1124.79	Maximum 1127.05	
Mean 1126.74	Std. Dev. 0.511303	Variance 0.26143

At 1054 years

05% of values less than 1127.05
10% of values less than 1127.05
50% of values less than 1127.05
90% of values less than 1127.05
95% of values less than 1127.05

Minimum 1127.05	Maximum 1127.05	
Mean 1127.05	Std. Dev. 6.16094E-005	Variance -3.79572E-009

At infinity

05% of values less than 1127.05
10% of values less than 1127.05
50% of values less than 1127.05
90% of values less than 1127.05
95% of values less than 1127.05

Minimum 1127.05	Maximum 1127.05	
Mean 1127.05	Std. Dev. 6.16094E-005	Variance -3.79572E-009

Phase: Cell 6

Aquifer Flow [m³/year]

At 29 years

05% of values less than 21430.8
10% of values less than 25302.2
50% of values less than 66221.7
90% of values less than 184392
95% of values less than 207206

Minimum 0	Maximum 331201	
Mean 85278.6	Std. Dev. 61309.1	Variance 3.7588E+009

At 54 years

05% of values less than 21430.8
10% of values less than 25302.2
50% of values less than 66221.7
90% of values less than 184392
95% of values less than 207206

Minimum 0	Maximum 331201	
Mean 85278.6	Std. Dev. 61309.1	Variance 3.7588E+009

At 154 years

05% of values less than 21430.8
10% of values less than 25302.2
50% of values less than 66221.7
90% of values less than 184392
95% of values less than 207206

Minimum 0	Maximum 331201	
Mean 85278.6	Std. Dev. 61309.1	Variance 3.7588E+009

At 1054 years

05% of values less than 21430.8
10% of values less than 25302.2
50% of values less than 66221.7
90% of values less than 184392
95% of values less than 207206

Minimum 0	Maximum 331201	
Mean 85278.6	Std. Dev. 61309.1	Variance 3.7588E+009

At infinity

05% of values less than 21430.8
10% of values less than 25302.2
50% of values less than 66221.7
90% of values less than 184392
95% of values less than 207206

Minimum 0	Maximum 331201	
Mean 85278.6	Std. Dev. 61309.1	Variance 3.7588E+009

Phase: Cell 7

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 7.55581
10% of values less than 8.18564
50% of values less than 10.6374
90% of values less than 12.8788
95% of values less than 13.2231

Minimum 4.63421	Maximum 13.7615	
Mean 10.4703	Std. Dev. 1.78693	Variance 3.19311

At 54 years

05% of values less than 7.47599
10% of values less than 8.10101
50% of values less than 10.5256
90% of values less than 12.7448
95% of values less than 13.0836

Minimum 4.58476	Maximum 13.6179	
Mean 10.3602	Std. Dev. 1.76809	Variance 3.12613

At 154 years

05% of values less than 7.16221
10% of values less than 7.78671
50% of values less than 10.0931
90% of values less than 12.2348
95% of values less than 12.542

Minimum 4.39183	Maximum 13.0688	
Mean 9.93597	Std. Dev. 1.69518	Variance 2.87364

At 1054 years

05% of values less than 4.84517
10% of values less than 5.2678
50% of values less than 6.82788
90% of values less than 8.2768
95% of values less than 8.48452

Minimum 2.97103	Maximum 8.84092	
Mean 6.72162	Std. Dev. 1.14678	Variance 1.31509

At infinity

05% of values less than 0.00129459
10% of values less than 0.00140751
50% of values less than 0.00182435
90% of values less than 0.00221149
95% of values less than 0.00226699

Minimum 0.000793835	Maximum 0.00236222	
Mean 0.00179596	Std. Dev. 0.000306408	Variance 9.38862E-008

Phase: Cell 7

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 5.21132E-023
10% of values less than 9.40724E-022
50% of values less than 2.61763E-012
90% of values less than 8.31407E-007
95% of values less than 2.82575E-006

Minimum 2.59364E-029	Maximum 2.018E-005	
Mean 5.61197E-007	Std. Dev. 2.26711E-006	Variance 5.13981E-012

At 54 years

05% of values less than 5.21132E-023
10% of values less than 9.40724E-022
50% of values less than 2.61763E-012
90% of values less than 8.31407E-007
95% of values less than 2.82575E-006

Minimum 2.59364E-029	Maximum 2.018E-005	
Mean 5.61197E-007	Std. Dev. 2.26711E-006	Variance 5.13981E-012

At 154 years

05% of values less than 5.21132E-023
10% of values less than 9.40724E-022
50% of values less than 2.61763E-012
90% of values less than 8.31407E-007
95% of values less than 2.82575E-006

Minimum 2.59364E-029	Maximum 2.018E-005	
Mean 5.61197E-007	Std. Dev. 2.26711E-006	Variance 5.13981E-012

At 1054 years

05% of values less than 5.21132E-023
10% of values less than 9.40724E-022
50% of values less than 2.61763E-012
90% of values less than 8.31407E-007
95% of values less than 2.82575E-006

Minimum 2.59364E-029	Maximum 2.018E-005	
Mean 5.61197E-007	Std. Dev. 2.26711E-006	Variance 5.13981E-012

At infinity

05% of values less than 5.21132E-023
10% of values less than 9.40724E-022
50% of values less than 2.61763E-012
90% of values less than 8.31407E-007
95% of values less than 2.82575E-006

Minimum 2.59364E-029	Maximum 2.018E-005	
Mean 5.61197E-007	Std. Dev. 2.26711E-006	Variance 5.13981E-012

Phase: Cell 7

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 3.1681E-023
10% of values less than 4.8702E-021
50% of values less than 4.83268E-011
90% of values less than 0.000630538
95% of values less than 0.00184845

Minimum 4.07877E-029	Maximum 0.0176167	
Mean 0.00034024	Std. Dev. 0.00155809	Variance 2.42764E-006

At 54 years

05% of values less than 3.1681E-023
10% of values less than 4.8702E-021
50% of values less than 4.83268E-011
90% of values less than 0.000630538
95% of values less than 0.00184845

Minimum 4.07877E-029	Maximum 0.0175725	
Mean 0.000339861	Std. Dev. 0.00155493	Variance 2.4178E-006

At 154 years

05% of values less than 3.1681E-023
10% of values less than 4.8702E-021
50% of values less than 4.83268E-011
90% of values less than 0.000630538
95% of values less than 0.00184845

Minimum 4.07877E-029	Maximum 0.017404	
Mean 0.000338387	Std. Dev. 0.00154276	Variance 2.38011E-006

At 1054 years

05% of values less than 3.1681E-023
10% of values less than 4.8702E-021
50% of values less than 4.83268E-011
90% of values less than 0.000630538
95% of values less than 0.00184845

Minimum 4.07877E-029	Maximum 0.0158381	
Mean 0.000324956	Std. Dev. 0.00143171	Variance 2.0498E-006

At infinity

05% of values less than 3.1681E-023
10% of values less than 4.8702E-021
50% of values less than 4.83268E-011
90% of values less than 0.000630538
95% of values less than 0.00184845

Minimum 4.07877E-029	Maximum 0.00217618	
Mean 0.000185067	Std. Dev. 0.00052402	Variance 2.74597E-007

Phase: Cell 7

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 2.79858E-025
10% of values less than 1.75834E-023
50% of values less than 2.05437E-011
90% of values less than 0.000430714
95% of values less than 0.00806773

Minimum 1.12221E-029	Maximum 0.136462	
Mean 0.00224888	Std. Dev. 0.0119865	Variance 0.000143676

At 54 years

05% of values less than 2.79858E-025
10% of values less than 1.75834E-023
50% of values less than 2.05437E-011
90% of values less than 0.000428624
95% of values less than 0.008017

Minimum 1.12221E-029	Maximum 0.135403	
Mean 0.00223263	Std. Dev. 0.0118957	Variance 0.000141509

At 154 years

05% of values less than 2.79858E-025
10% of values less than 1.75834E-023
50% of values less than 2.05437E-011
90% of values less than 0.000420347
95% of values less than 0.00782096

Minimum 1.12221E-029	Maximum 0.131356	
Mean 0.00216963	Std. Dev. 0.0115461	Variance 0.000133313

At 1054 years

05% of values less than 2.79858E-025
10% of values less than 1.75834E-023
50% of values less than 2.05437E-011
90% of values less than 0.000352124
95% of values less than 0.00618268

Minimum 1.12221E-029	Maximum 0.0981913	
Mean 0.00165858	Std. Dev. 0.00870513	Variance 7.57792E-005

At infinity

05% of values less than 2.79858E-025
10% of values less than 1.75834E-023
50% of values less than 2.05437E-011
90% of values less than 8.46454E-006
95% of values less than 4.38727E-005

Minimum 1.12221E-029	Maximum 0.000214604	
Mean 6.63734E-006	Std. Dev. 2.50043E-005	Variance 6.25213E-010

Phase: Cell 7

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.00117723
10% of values less than 0.00292597
50% of values less than 0.0930237
90% of values less than 0.922402
95% of values less than 1.47221

Minimum 0.000127558	Maximum 2.73001	
Mean 0.298957	Std. Dev. 0.478518	Variance 0.228979

At 54 years

05% of values less than 0.014957
10% of values less than 0.021395
50% of values less than 0.241748
90% of values less than 1.05774
95% of values less than 1.57245

Minimum 0.00387893	Maximum 2.89409	
Mean 0.435905	Std. Dev. 0.524703	Variance 0.275314

At 154 years

05% of values less than 0.0535488
10% of values less than 0.0811115
50% of values less than 0.39459
90% of values less than 1.24912
95% of values less than 1.62036

Minimum 0.0184822	Maximum 2.84799	
Mean 0.535431	Std. Dev. 0.53369	Variance 0.284825

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0.112447
90% of values less than 0.55649
95% of values less than 0.858002

Minimum 0	Maximum 1.7241	
Mean 0.227901	Std. Dev. 0.302453	Variance 0.0914779

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 7

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.71129E-016
95% of values less than 2.75522E-013

Minimum 0	Maximum 9.00904E-008	
Mean 4.50083E-010	Std. Dev. 6.35437E-009	Variance 4.03781E-017

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.74917E-012
95% of values less than 3.06512E-010

Minimum 0	Maximum 3.33319E-006	
Mean 1.70162E-008	Std. Dev. 2.35102E-007	Variance 5.5273E-014

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.93121E-009
95% of values less than 3.11877E-008

Minimum 0	Maximum 1.78311E-005	
Mean 1.12669E-007	Std. Dev. 1.26399E-006	Variance 1.59766E-012

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.0799E-015
90% of values less than 8.06442E-008
95% of values less than 6.41866E-007

Minimum 0	Maximum 2.018E-005	
Mean 3.45676E-007	Std. Dev. 2.03593E-006	Variance 4.14502E-012

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.18506E-012
90% of values less than 5.60035E-007
95% of values less than 2.13413E-006

Minimum 0	Maximum 2.018E-005	
Mean 4.81695E-007	Std. Dev. 2.19361E-006	Variance 4.81194E-012

Phase: Cell 7

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 9.08938E-017	
Mean 4.52208E-019	Std. Dev. 6.41115E-018	Variance 4.11029E-035

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.87168E-010		
95% of values less than 1.6521E-009		
Minimum 0	Maximum 2.37658E-007	
Mean 2.14678E-009	Std. Dev. 1.82725E-008	Variance 3.33883E-016

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.30411E-011		
90% of values less than 0.000626872		
95% of values less than 0.00184448		
Minimum 0	Maximum 0.00364466	
Mean 0.000207404	Std. Dev. 0.000631421	Variance 3.98693E-007

Phase: Cell 7

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.40328E-015
90% of values less than 5.65625E-008
95% of values less than 2.89455E-006

Minimum 0	Maximum 0.00142413	
Mean 8.42009E-006	Std. Dev. 0.000100959	Variance 1.01928E-008

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.05394E-014
90% of values less than 8.74581E-008
95% of values less than 3.46681E-006

Minimum 0	Maximum 0.00311445	
Mean 1.77921E-005	Std. Dev. 0.000220487	Variance 4.86147E-008

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 3.68926E-014
90% of values less than 9.22313E-007
95% of values less than 8.05454E-006

Minimum 0	Maximum 0.00332361	
Mean 2.03287E-005	Std. Dev. 0.000235967	Variance 5.56807E-008

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 6.55539E-015
90% of values less than 6.77939E-008
95% of values less than 2.18129E-006

Minimum 0	Maximum 0.00222493	
Mean 1.23544E-005	Std. Dev. 0.00015735	Variance 2.47589E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.52061E-012
95% of values less than 2.73405E-011

Minimum 0	Maximum 4.37612E-009	
Mean 3.06868E-011	Std. Dev. 3.12428E-010	Variance 9.76111E-020

Phase: Cell 7

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 9.48254E-016
90% of values less than 4.70999E-009
95% of values less than 2.11863E-007

Minimum 0	Maximum 4.81744E-005	
Mean 5.0196E-007	Std. Dev. 4.03173E-006	Variance 1.62548E-011

At 54 years

05% of values less than 5.31509E-015
10% of values less than 2.44962E-013
50% of values less than 8.57359E-008
90% of values less than 0.000179006
95% of values less than 0.00113828

Minimum 0	Maximum 0.0212566	
Mean 0.000328142	Std. Dev. 0.00189042	Variance 3.57369E-006

At 154 years

05% of values less than 5.72334E-007
10% of values less than 1.3604E-006
50% of values less than 9.72039E-005
90% of values less than 0.0035322
95% of values less than 0.0123141

Minimum 2.81191E-010	Maximum 0.0619986	
Mean 0.00205871	Std. Dev. 0.00681336	Variance 4.64219E-005

At 1054 years

05% of values less than 7.51647E-007
10% of values less than 2.93863E-006
50% of values less than 0.000114704
90% of values less than 0.00339649
95% of values less than 0.00962318

Minimum 6.92796E-009	Maximum 0.0480401	
Mean 0.0017755	Std. Dev. 0.00559352	Variance 3.12875E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.33631E-016
95% of values less than 1.30432E-015

Minimum 0	Maximum 2.9207E-012	
Mean 1.51647E-014	Std. Dev. 2.06034E-013	Variance 4.24499E-026

Phase: Cell 7

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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 1.75823E-016		
Minimum 0	Maximum 2.90148E-010	
Mean 1.55576E-012	Std. Dev. 2.04888E-011	Variance 4.19791E-022

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.20579E-011		
95% of values less than 7.07092E-009		
Minimum 0	Maximum 7.93822E-006	
Mean 9.69271E-008	Std. Dev. 7.73319E-007	Variance 5.98022E-013

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.43073E-014		
90% of values less than 1.37339E-007		
95% of values less than 5.11295E-007		
Minimum 0	Maximum 8.18124E-006	
Mean 2.07133E-007	Std. Dev. 1.02679E-006	Variance 1.0543E-012

Phase: Cell 7

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 4.51745E-012
90% of values less than 4.39513E-005
95% of values less than 0.000275194

Minimum 0	Maximum 0.0025883	
Mean 4.02602E-005	Std. Dev. 0.00020827	Variance 4.33764E-008

Phase: Cell 7

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

At 29 years

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

Minimum 0	Maximum 9.86778E-015	
Mean 4.98369E-017	Std. Dev. 6.96047E-016	Variance 4.84481E-031

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.74486E-015
95% of values less than 4.57709E-014

Minimum 0	Maximum 2.8807E-010	
Mean 1.71693E-012	Std. Dev. 2.04256E-011	Variance 4.17206E-022

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.81769E-013
95% of values less than 8.28919E-012

Minimum 0	Maximum 1.67578E-008	
Mean 1.19897E-010	Std. Dev. 1.22087E-009	Variance 1.49053E-018

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.05296E-012
95% of values less than 1.30022E-011

Minimum 0	Maximum 3.04415E-008	
Mean 1.86372E-010	Std. Dev. 2.15949E-009	Variance 4.6634E-018

At infinity

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 2.00959E-016

Minimum 0	Maximum 7.42539E-013	
Mean 5.58392E-015	Std. Dev. 5.46825E-014	Variance 2.99018E-027

Phase: Cell 7

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

05% of values less than 210
10% of values less than 232
50% of values less than 256
90% of values less than 312
95% of values less than 312

Minimum 190	Maximum 380	
Mean 260.498	Std. Dev. 30.117	Variance 907.031

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

05% of values less than 0
10% of values less than 0
50% of values less than 14859
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 11514.1	Std. Dev. 9123.11	Variance 8.32311E+007

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

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

Minimum 0	Maximum 20000	
Mean 14228.9	Std. Dev. 9084.46	Variance 8.25274E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 282
95% of values less than 344

Minimum 0	Maximum 12189	
Mean 161.164	Std. Dev. 886.666	Variance 786177

Phase: Cell 7

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 7.53096E-019
90% of values less than 1.561E-011
95% of values less than 7.19087E-010

Minimum 0	Maximum 2.60408E-007	
Mean 2.06979E-009	Std. Dev. 1.93075E-008	Variance 3.72779E-016

At 54 years

05% of values less than 8.37997E-018
10% of values less than 1.23227E-015
50% of values less than 3.33829E-010
90% of values less than 1.25346E-006
95% of values less than 6.21595E-006

Minimum 0	Maximum 0.000150711	
Mean 1.88043E-006	Std. Dev. 1.21159E-005	Variance 1.46795E-010

At 154 years

05% of values less than 3.97851E-009
10% of values less than 1.21598E-008
50% of values less than 8.67706E-007
90% of values less than 4.05401E-005
95% of values less than 9.33211E-005

Minimum 2.16773E-012	Maximum 0.000553123	
Mean 1.84374E-005	Std. Dev. 6.26312E-005	Variance 3.92267E-009

At 1054 years

05% of values less than 9.74454E-009
10% of values less than 3.49695E-008
50% of values less than 1.28852E-006
90% of values less than 5.20959E-005
95% of values less than 9.57422E-005

Minimum 8.10746E-011	Maximum 0.000566693	
Mean 1.97993E-005	Std. Dev. 6.24559E-005	Variance 3.90074E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 9.83517E-018
95% of values less than 3.45655E-017

Minimum 0	Maximum 2.83697E-012	
Mean 1.4142E-014	Std. Dev. 2.00102E-013	Variance 4.00409E-026

Phase: Cell 7

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 3.66157E-014	
Mean 1.82475E-016	Std. Dev. 2.58265E-015	Variance 6.67009E-030

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 8.68274E-015		
95% of values less than 3.87188E-012		
Minimum 0	Maximum 6.66611E-008	
Mean 4.84106E-010	Std. Dev. 4.91611E-009	Variance 2.41681E-017

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 2.08331E-016		
90% of values less than 1.19946E-009		
95% of values less than 7.59277E-009		
Minimum 0	Maximum 1.21631E-007	
Mean 2.30484E-009	Std. Dev. 1.19221E-008	Variance 1.42135E-016

Phase: Cell 7

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.22579E-014
90% of values less than 2.54711E-007
95% of values less than 1.1529E-006

Minimum 0	Maximum 1.03227E-005	
Mean 2.60059E-007	Std. Dev. 1.20857E-006	Variance 1.46064E-012

Phase: Cell 7

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

At 29 years

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

Minimum 0	Maximum 3.0771E-018	
Mean 1.5309E-020	Std. Dev. 2.17042E-019	Variance 4.71073E-038

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.03953E-018
95% of values less than 1.78871E-017

Minimum 0	Maximum 3.85714E-013	
Mean 2.1984E-015	Std. Dev. 2.72817E-014	Variance 7.44289E-028

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.02358E-015
95% of values less than 1.43745E-014

Minimum 0	Maximum 3.88871E-011	
Mean 2.74703E-013	Std. Dev. 2.82476E-012	Variance 7.97926E-024

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.39916E-015
95% of values less than 4.72939E-014

Minimum 0	Maximum 1.10882E-010	
Mean 6.59982E-013	Std. Dev. 7.85569E-012	Variance 6.17119E-023

At infinity

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 1.89016E-018

Minimum 0	Maximum 3.39165E-015	
Mean 3.41771E-017	Std. Dev. 2.92895E-016	Variance 8.57873E-032

Phase: Cell 7

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

05% of values less than 232
10% of values less than 256
50% of values less than 282
90% of values less than 344
95% of values less than 344

Minimum 210	Maximum 420	
Mean 286.697	Std. Dev. 33.759	Variance 1139.67

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

05% of values less than 0
10% of values less than 0
50% of values less than 16406
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 11424.9	Std. Dev. 9246.15	Variance 8.54912E+007

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

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

Minimum 0	Maximum 20000	
Mean 13930.3	Std. Dev. 9218.2	Variance 8.49751E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 312
95% of values less than 380

Minimum 0	Maximum 1523	
Mean 113.731	Std. Dev. 272.075	Variance 74024.9

Phase: Cell 7

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 307.567
10% of values less than 350.905
50% of values less than 683.784
90% of values less than 1070.58
95% of values less than 1113.31

Minimum 272.828	Maximum 1133.55	
Mean 705.688	Std. Dev. 257.27	Variance 66187.8

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 7

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.03783
10% of values less than 1.04315
50% of values less than 1.08395
90% of values less than 1.13119
95% of values less than 1.1364

Minimum 1.03356	Maximum 1.13886	
Mean 1.08659	Std. Dev. 0.0314725	Variance 0.000990521

At 154 years

05% of values less than 1.3625
10% of values less than 1.42441
50% of values less than 2.03513
90% of values less than 3.27995
95% of values less than 3.47993

Minimum 1.3151	Maximum 3.58084	
Mean 2.21402	Std. Dev. 0.669372	Variance 0.448059

At 1054 years

05% of values less than 1.3625
10% of values less than 1.42442
50% of values less than 2.03549
90% of values less than 3.2927
95% of values less than 3.49852

Minimum 1.31511	Maximum 3.60307	
Mean 2.21734	Std. Dev. 0.674322	Variance 0.45471

At infinity

05% of values less than 1.3625
10% of values less than 1.42442
50% of values less than 2.03549
90% of values less than 3.2927
95% of values less than 3.49852

Minimum 1.31511	Maximum 3.60307	
Mean 2.21734	Std. Dev. 0.674322	Variance 0.45471

Phase: Cell 7

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 7

Leakage through EBS [l/day]

At 29 years

05% of values less than 891.172
10% of values less than 933.902
50% of values less than 1320.7
90% of values less than 1653.57
95% of values less than 1696.91

Minimum 870.932	Maximum 1731.65	
Mean 1298.79	Std. Dev. 257.27	Variance 66187.8

At 54 years

05% of values less than 951.948
10% of values less than 995.161
50% of values less than 1376.13
90% of values less than 1689.25
95% of values less than 1729.01

Minimum 931.402	Maximum 1760.71	
Mean 1350.99	Std. Dev. 248.109	Variance 61557.9

At 154 years

05% of values less than 1996.19
10% of values less than 1998.53
50% of values less than 2004.24
90% of values less than 2004.47
95% of values less than 2004.47

Minimum 1994.8	Maximum 2004.48	
Mean 2002.89	Std. Dev. 2.57372	Variance 6.62406

At 1054 years

05% of values less than 2004.48
10% of values less than 2004.48
50% of values less than 2004.48
90% of values less than 2004.48
95% of values less than 2004.48

Minimum 2004.48	Maximum 2004.48	
Mean 2004.48	Std. Dev. 0.000145794	Variance 2.1256E-008

At infinity

05% of values less than 2004.48
10% of values less than 2004.48
50% of values less than 2004.48
90% of values less than 2004.48
95% of values less than 2004.48

Minimum 2004.48	Maximum 2004.48	
Mean 2004.48	Std. Dev. 0.000145794	Variance 2.1256E-008

Phase: Cell 7

Aquifer Flow [m³/year]

At 29 years

05% of values less than 23308.7
10% of values less than 27519.4
50% of values less than 72024.6
90% of values less than 200551
95% of values less than 225363

Minimum 0	Maximum 360224	
Mean 92751.5	Std. Dev. 66681.5	Variance 4.44642E+009

At 54 years

05% of values less than 23308.7
10% of values less than 27519.4
50% of values less than 72024.6
90% of values less than 200551
95% of values less than 225363

Minimum 0	Maximum 360224	
Mean 92751.5	Std. Dev. 66681.5	Variance 4.44642E+009

At 154 years

05% of values less than 23308.7
10% of values less than 27519.4
50% of values less than 72024.6
90% of values less than 200551
95% of values less than 225363

Minimum 0	Maximum 360224	
Mean 92751.5	Std. Dev. 66681.5	Variance 4.44642E+009

At 1054 years

05% of values less than 23308.7
10% of values less than 27519.4
50% of values less than 72024.6
90% of values less than 200551
95% of values less than 225363

Minimum 0	Maximum 360224	
Mean 92751.5	Std. Dev. 66681.5	Variance 4.44642E+009

At infinity

05% of values less than 23308.7
10% of values less than 27519.4
50% of values less than 72024.6
90% of values less than 200551
95% of values less than 225363

Minimum 0	Maximum 360224	
Mean 92751.5	Std. Dev. 66681.5	Variance 4.44642E+009

Phase: Cell 8

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 4.62392
10% of values less than 4.90844
50% of values less than 7.52527
90% of values less than 9.85459
95% of values less than 10.8028

Minimum 3.15179	Maximum 11.6542	
Mean 7.4461	Std. Dev. 1.86356	Variance 3.47286

At 54 years

05% of values less than 4.57975
10% of values less than 4.86164
50% of values less than 7.45261
90% of values less than 9.76026
95% of values less than 10.698

Minimum 3.12087	Maximum 11.5435	
Mean 7.37399	Std. Dev. 1.84557	Variance 3.40614

At 154 years

05% of values less than 4.40923
10% of values less than 4.68152
50% of values less than 7.1696
90% of values less than 9.39791
95% of values less than 10.2893

Minimum 3.00026	Maximum 11.1209	
Mean 7.09411	Std. Dev. 1.77587	Variance 3.15371

At 1054 years

05% of values less than 3.09761
10% of values less than 3.2889
50% of values less than 5.03685
90% of values less than 6.60232
95% of values less than 7.22853

Minimum 2.10776	Maximum 7.8128	
Mean 4.98382	Std. Dev. 1.2476	Variance 1.5565

At infinity

05% of values less than 0.00183283
10% of values less than 0.00194602
50% of values less than 0.00298027
90% of values less than 0.00390654
95% of values less than 0.00427707

Minimum 0.00124715	Maximum 0.00462277	
Mean 0.00294889	Std. Dev. 0.000738195	Variance 5.44932E-007

Phase: Cell 8

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 2.11237E-025
10% of values less than 6.04565E-023
50% of values less than 1.19453E-011
90% of values less than 1.13878E-006
95% of values less than 3.82696E-006

Minimum 9.34365E-030	Maximum 1.56354E-005	
Mean 6.16759E-007	Std. Dev. 2.22062E-006	Variance 4.93117E-012

At 54 years

05% of values less than 2.11237E-025
10% of values less than 6.04565E-023
50% of values less than 1.19453E-011
90% of values less than 1.13878E-006
95% of values less than 3.82696E-006

Minimum 9.34365E-030	Maximum 1.56354E-005	
Mean 6.16759E-007	Std. Dev. 2.22062E-006	Variance 4.93117E-012

At 154 years

05% of values less than 2.11237E-025
10% of values less than 6.04565E-023
50% of values less than 1.19453E-011
90% of values less than 1.13878E-006
95% of values less than 3.82696E-006

Minimum 9.34365E-030	Maximum 1.56354E-005	
Mean 6.16759E-007	Std. Dev. 2.22062E-006	Variance 4.93117E-012

At 1054 years

05% of values less than 2.11237E-025
10% of values less than 6.04565E-023
50% of values less than 1.19453E-011
90% of values less than 1.13878E-006
95% of values less than 3.82696E-006

Minimum 9.34365E-030	Maximum 1.56354E-005	
Mean 6.16759E-007	Std. Dev. 2.22062E-006	Variance 4.93117E-012

At infinity

05% of values less than 2.11237E-025
10% of values less than 6.04565E-023
50% of values less than 1.19453E-011
90% of values less than 1.13878E-006
95% of values less than 3.82696E-006

Minimum 9.34365E-030	Maximum 1.56354E-005	
Mean 6.16759E-007	Std. Dev. 2.22062E-006	Variance 4.93117E-012

Phase: Cell 8

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 7.05731E-026
10% of values less than 1.03961E-021
50% of values less than 1.1229E-010
90% of values less than 0.000250107
95% of values less than 0.00184661

Minimum 2.86272E-029	Maximum 0.00710744	
Mean 0.000252611	Std. Dev. 0.000966806	Variance 9.34713E-007

At 54 years

05% of values less than 7.05731E-026
10% of values less than 1.03961E-021
50% of values less than 1.1229E-010
90% of values less than 0.000250107
95% of values less than 0.00184661

Minimum 2.86272E-029	Maximum 0.00709791	
Mean 0.000252448	Std. Dev. 0.000965895	Variance 9.32954E-007

At 154 years

05% of values less than 7.05731E-026
10% of values less than 1.03961E-021
50% of values less than 1.1229E-010
90% of values less than 0.000250107
95% of values less than 0.00184661

Minimum 2.86272E-029	Maximum 0.00706015	
Mean 0.0002518	Std. Dev. 0.000962277	Variance 9.25978E-007

At 1054 years

05% of values less than 7.05731E-026
10% of values less than 1.03961E-021
50% of values less than 1.1229E-010
90% of values less than 0.000250107
95% of values less than 0.00184661

Minimum 2.86272E-029	Maximum 0.00672217	
Mean 0.000246054	Std. Dev. 0.000930396	Variance 8.65637E-007

At infinity

05% of values less than 7.05731E-026
10% of values less than 1.03961E-021
50% of values less than 1.1229E-010
90% of values less than 0.000250107
95% of values less than 0.00184661

Minimum 2.86272E-029	Maximum 0.00239353	
Mean 0.000163601	Std. Dev. 0.000526505	Variance 2.77207E-007

Phase: Cell 8

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 2.86566E-024
10% of values less than 1.31716E-022
50% of values less than 1.48295E-009
90% of values less than 0.00586811
95% of values less than 0.0188366

Minimum 1.41326E-027	Maximum 0.106982	
Mean 0.00317312	Std. Dev. 0.0117879	Variance 0.000138955

At 54 years

05% of values less than 2.86566E-024
10% of values less than 1.31716E-022
50% of values less than 1.48295E-009
90% of values less than 0.00583506
95% of values less than 0.0187184

Minimum 1.41326E-027	Maximum 0.106209	
Mean 0.00315242	Std. Dev. 0.0117069	Variance 0.000137052

At 154 years

05% of values less than 2.86566E-024
10% of values less than 1.31716E-022
50% of values less than 1.48295E-009
90% of values less than 0.00570559
95% of values less than 0.0182534

Minimum 1.41326E-027	Maximum 0.103177	
Mean 0.00307147	Std. Dev. 0.01139	Variance 0.000129732

At 1054 years

05% of values less than 2.86566E-024
10% of values less than 1.31716E-022
50% of values less than 1.48295E-009
90% of values less than 0.0046394
95% of values less than 0.014536

Minimum 1.41326E-027	Maximum 0.0796513	
Mean 0.00242223	Std. Dev. 0.00887579	Variance 7.87797E-005

At infinity

05% of values less than 2.86566E-024
10% of values less than 1.31716E-022
50% of values less than 1.48295E-009
90% of values less than 5.9601E-005
95% of values less than 0.000120368

Minimum 1.41326E-027	Maximum 0.000342939	
Mean 1.79563E-005	Std. Dev. 4.98091E-005	Variance 2.48094E-009

Phase: Cell 8

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.000115139
10% of values less than 0.000320802
50% of values less than 0.0272773
90% of values less than 0.543234
95% of values less than 0.80715

Minimum 1.24229E-005	Maximum 2.18524	
Mean 0.168435	Std. Dev. 0.34627	Variance 0.119903

At 54 years

05% of values less than 0.00519946
10% of values less than 0.00975381
50% of values less than 0.123557
90% of values less than 0.830828
95% of values less than 1.04048

Minimum 0.000783522	Maximum 2.46477	
Mean 0.297983	Std. Dev. 0.407872	Variance 0.166359

At 154 years

05% of values less than 0.0108211
10% of values less than 0.0165316
50% of values less than 0.148869
90% of values less than 0.83913
95% of values less than 1.01613

Minimum 0.001465	Maximum 2.4226	
Mean 0.314712	Std. Dev. 0.4023	Variance 0.161845

At 1054 years

05% of values less than 0.000803127
10% of values less than 0.00363275
50% of values less than 0.0921137
90% of values less than 0.612886
95% of values less than 0.732935

Minimum 0	Maximum 1.94746	
Mean 0.214201	Std. Dev. 0.307744	Variance 0.0947063

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 0.136897
95% of values less than 0.25404

Minimum 0	Maximum 0.849032	
Mean 0.0411529	Std. Dev. 0.110289	Variance 0.0121636

Phase: Cell 8

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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 1.2357E-013

Minimum 0	Maximum 2.45934E-009	
Mean 1.89507E-011	Std. Dev. 1.87931E-010	Variance 3.53181E-020

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.27415E-013
95% of values less than 1.37778E-010

Minimum 0	Maximum 2.99607E-007	
Mean 3.29677E-009	Std. Dev. 2.83428E-008	Variance 8.03313E-016

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.18531E-010
95% of values less than 1.04307E-007

Minimum 0	Maximum 9.08837E-006	
Mean 9.24743E-008	Std. Dev. 7.60832E-007	Variance 5.78865E-013

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.53379E-008
95% of values less than 7.33001E-007

Minimum 0	Maximum 1.22722E-005	
Mean 2.63138E-007	Std. Dev. 1.49011E-006	Variance 2.22043E-012

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 6.97445E-012
90% of values less than 8.13181E-007
95% of values less than 2.28965E-006

Minimum 0	Maximum 1.5559E-005	
Mean 5.33085E-007	Std. Dev. 2.10634E-006	Variance 4.43667E-012

Phase: Cell 8

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.3562E-012		
95% of values less than 8.42412E-011		
Minimum 0	Maximum 5.6394E-007	
Mean 4.197E-009	Std. Dev. 4.16762E-008	Variance 1.73691E-015

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.07244E-010		
90% of values less than 0.0002461		
95% of values less than 0.00184677		
Minimum 0	Maximum 0.00398603	
Mean 0.000191178	Std. Dev. 0.000657058	Variance 4.31726E-007

Phase: Cell 8

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 6.37361E-013
90% of values less than 2.9383E-007
95% of values less than 1.15565E-005

Minimum 0	Maximum 0.000240862	
Mean 4.18277E-006	Std. Dev. 2.29986E-005	Variance 5.28938E-010

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.33519E-012
90% of values less than 1.62556E-006
95% of values less than 4.51206E-005

Minimum 0	Maximum 0.000584526	
Mean 1.13435E-005	Std. Dev. 5.65549E-005	Variance 3.19846E-009

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.44323E-012
90% of values less than 1.71484E-006
95% of values less than 4.4928E-005

Minimum 0	Maximum 0.00059214	
Mean 1.27088E-005	Std. Dev. 6.13816E-005	Variance 3.7677E-009

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.77762E-013
90% of values less than 1.47178E-006
95% of values less than 3.26845E-005

Minimum 0	Maximum 0.000500382	
Mean 9.7333E-006	Std. Dev. 4.89341E-005	Variance 2.39454E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.22222E-009
95% of values less than 2.28336E-007

Minimum 0	Maximum 0.000153318	
Mean 2.67326E-006	Std. Dev. 1.73866E-005	Variance 3.02295E-010

Phase: Cell 8

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

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.91795E-015		
95% of values less than 1.55075E-012		
Minimum 0	Maximum 9.33802E-008	
Mean 4.80478E-010	Std. Dev. 6.58857E-009	Variance 4.34093E-017

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.29513E-012		
90% of values less than 5.76449E-007		
95% of values less than 1.95623E-005		
Minimum 0	Maximum 0.0022998	
Mean 1.6837E-005	Std. Dev. 0.000165567	Variance 2.74124E-008

At 154 years

05% of values less than 7.88756E-009		
10% of values less than 3.61105E-008		
50% of values less than 5.43755E-006		
90% of values less than 0.000627833		
95% of values less than 0.00211186		
Minimum 4.7286E-011	Maximum 0.0203899	
Mean 0.000533178	Std. Dev. 0.00228575	Variance 5.22463E-006

At 1054 years

05% of values less than 1.7419E-008		
10% of values less than 5.20438E-008		
50% of values less than 5.86563E-006		
90% of values less than 0.000626086		
95% of values less than 0.00171854		
Minimum 8.50455E-011	Maximum 0.017568	
Mean 0.000458424	Std. Dev. 0.00194043	Variance 3.76526E-006

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.51064E-005		
95% of values less than 0.000249758		
Minimum 0	Maximum 0.00649607	
Mean 9.17075E-005	Std. Dev. 0.00054171	Variance 2.93449E-007

Phase: Cell 8

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 7.47769E-015	
Mean 3.89171E-017	Std. Dev. 5.27874E-016	Variance 2.78651E-031

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.44716E-014
95% of values less than 1.59658E-009

Minimum 0	Maximum 4.52946E-006	
Mean 2.59847E-008	Std. Dev. 3.2091E-007	Variance 1.02984E-013

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 7.41656E-015
90% of values less than 2.42492E-007
95% of values less than 9.7816E-007

Minimum 0	Maximum 1.43698E-005	
Mean 3.04612E-007	Std. Dev. 1.6207E-006	Variance 2.62667E-012

Phase: Cell 8

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.88121E-013		
90% of values less than 1.41685E-006		
95% of values less than 1.55719E-005		
Minimum 0	Maximum 0.000302259	
Mean 7.29064E-006	Std. Dev. 3.76245E-005	Variance 1.4156E-009

Phase: Cell 8

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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 4.56782E-016		
Minimum 0	Maximum 6.95166E-013	
Mean 3.89509E-015	Std. Dev. 4.90803E-014	Variance 2.40888E-027

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.29842E-013		
95% of values less than 4.43401E-012		
Minimum 0	Maximum 5.5767E-009	
Mean 5.5266E-011	Std. Dev. 4.88377E-010	Variance 2.38512E-019

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.91712E-013		
95% of values less than 4.02468E-012		
Minimum 0	Maximum 7.76227E-009	
Mean 6.83593E-011	Std. Dev. 6.26762E-010	Variance 3.92831E-019

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.04022E-016		
95% of values less than 1.76841E-014		
Minimum 0	Maximum 2.08495E-009	
Mean 1.41115E-011	Std. Dev. 1.51396E-010	Variance 2.29208E-020

Phase: Cell 8

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

05% of values less than 172
10% of values less than 172
50% of values less than 256
90% of values less than 312
95% of values less than 312

Minimum 156	Maximum 380	
Mean 252.766	Std. Dev. 46.8255	Variance 2192.63

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

05% of values less than 0
10% of values less than 0
50% of values less than 16406
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 11178.1	Std. Dev. 9417.54	Variance 8.869E+007

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

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

Minimum 0	Maximum 20000	
Mean 13731.3	Std. Dev. 9300.94	Variance 8.65075E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 282
95% of values less than 312

Minimum 0	Maximum 1523	
Mean 92.8408	Std. Dev. 221.783	Variance 49187.6

Phase: Cell 8

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.25368E-018
95% of values less than 1.09875E-015

Minimum 0	Maximum 2.10658E-010	
Mean 1.06418E-012	Std. Dev. 1.4859E-011	Variance 2.20789E-022

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 5.29151E-015
90% of values less than 1.96574E-009
95% of values less than 5.62827E-008

Minimum 0	Maximum 7.11622E-006	
Mean 5.81341E-008	Std. Dev. 5.25198E-007	Variance 2.75833E-013

At 154 years

05% of values less than 2.21439E-011
10% of values less than 9.17967E-011
50% of values less than 2.43073E-008
90% of values less than 3.07423E-006
95% of values less than 1.28287E-005

Minimum 1.43515E-013	Maximum 0.000242508	
Mean 3.44705E-006	Std. Dev. 1.92853E-005	Variance 3.71922E-010

At 1054 years

05% of values less than 7.86271E-011
10% of values less than 4.44952E-010
50% of values less than 3.20891E-008
90% of values less than 3.01765E-006
95% of values less than 1.11682E-005

Minimum 5.18395E-013	Maximum 0.000232064	
Mean 3.18453E-006	Std. Dev. 1.80581E-005	Variance 3.26096E-010

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.71579E-019
90% of values less than 3.48391E-007
95% of values less than 1.20276E-006

Minimum 0	Maximum 2.3261E-005	
Mean 4.46275E-007	Std. Dev. 2.35271E-006	Variance 5.53525E-012

Phase: Cell 8

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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 1.06935E-013

Minimum 0	Maximum 3.07044E-008	
Mean 1.79224E-010	Std. Dev. 2.19331E-009	Variance 4.81062E-018

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.87504E-017
90% of values less than 4.56117E-010
95% of values less than 4.67675E-009

Minimum 0	Maximum 1.21464E-007	
Mean 2.00288E-009	Std. Dev. 1.17966E-008	Variance 1.39159E-016

Phase: Cell 8

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 6.76218E-016		
90% of values less than 2.5344E-009		
95% of values less than 2.35084E-008		
Minimum 0	Maximum 1.29167E-006	
Mean 2.09233E-008	Std. Dev. 1.21285E-007	Variance 1.47101E-014

Phase: Cell 8

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 1.80086E-016	
Mean 9.21946E-019	Std. Dev. 1.27016E-017	Variance 1.61329E-034

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.67126E-016		
95% of values less than 3.68142E-015		
Minimum 0	Maximum 1.53494E-011	
Mean 1.19163E-013	Std. Dev. 1.19247E-012	Variance 1.42199E-024

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 7.79313E-016		
95% of values less than 3.27586E-015		
Minimum 0	Maximum 1.98217E-011	
Mean 1.75013E-013	Std. Dev. 1.66678E-012	Variance 2.77815E-024

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 2.60862E-019		
95% of values less than 9.74174E-017		
Minimum 0	Maximum 9.77278E-012	
Mean 5.25574E-014	Std. Dev. 6.89926E-013	Variance 4.75997E-025

Phase: Cell 8

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

05% of values less than 190
10% of values less than 190
50% of values less than 282
90% of values less than 344
95% of values less than 344

Minimum 154	Maximum 380	
Mean 278.338	Std. Dev. 51.8934	Variance 2692.92

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

05% of values less than 0
10% of values less than 0
50% of values less than 18114
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 10886.8	Std. Dev. 9657.89	Variance 9.32749E+007

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

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

Minimum 0	Maximum 20000	
Mean 13432.8	Std. Dev. 9415.77	Variance 8.86567E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 312
95% of values less than 344

Minimum 0	Maximum 1681	
Mean 90.01	Std. Dev. 226.915	Variance 51490.4

Phase: Cell 8

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 142.299
90% of values less than 422.244
95% of values less than 446.499

Minimum 0	Maximum 466.358	
Mean 174.814	Std. Dev. 161.227	Variance 25994

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 8

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1
10% of values less than 1
50% of values less than 1.02003
90% of values less than 1.05937
95% of values less than 1.06278

Minimum 1	Maximum 1.06557	
Mean 1.02459	Std. Dev. 0.0226719	Variance 0.000514014

At 154 years

05% of values less than 0.673091
10% of values less than 0.712516
50% of values less than 1.25498
90% of values less than 2.00748
95% of values less than 2.09654

Minimum 0.599175	Maximum 2.17336	
Mean 1.31538	Std. Dev. 0.454593	Variance 0.206655

At 1054 years

05% of values less than 0.673087
10% of values less than 0.712511
50% of values less than 1.25505
90% of values less than 2.01026
95% of values less than 2.10022

Minimum 0.599172	Maximum 2.17798	
Mean 1.31607	Std. Dev. 0.455569	Variance 0.207544

At infinity

05% of values less than 0.673087
10% of values less than 0.712511
50% of values less than 1.25505
90% of values less than 2.01026
95% of values less than 2.10022

Minimum 0.599172	Maximum 2.17798	
Mean 1.31607	Std. Dev. 0.455569	Variance 0.207544

Phase: Cell 8

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 8

Leakage through EBS [l/day]

At 29 years

05% of values less than 811.653		
10% of values less than 835.908		
50% of values less than 1115.85		
90% of values less than 1258.15		
95% of values less than 1258.15		
Minimum 791.794	Maximum 1258.15	
Mean 1083.34	Std. Dev. 161.227	Variance 25994

At 54 years

05% of values less than 837.131		
10% of values less than 860.724		
50% of values less than 1127.03		
90% of values less than 1469.36		
95% of values less than 1503.99		
Minimum 817.752	Maximum 1573.5	
Mean 1140.9	Std. Dev. 213.914	Variance 45759.1

At 154 years

05% of values less than 1256.66		
10% of values less than 1256.99		
50% of values less than 1258.11		
90% of values less than 1258.16		
95% of values less than 1258.16		
Minimum 1256.33	Maximum 1258.16	
Mean 1257.85	Std. Dev. 0.481438	Variance 0.231783

At 1054 years

05% of values less than 1258.15		
10% of values less than 1258.15		
50% of values less than 1258.15		
90% of values less than 1258.15		
95% of values less than 1258.15		
Minimum 1258.15	Maximum 1258.15	
Mean 1258.15	Std. Dev. 4.13288E-005	Variance 1.70807E-009

At infinity

05% of values less than 1258.15		
10% of values less than 1258.15		
50% of values less than 1258.15		
90% of values less than 1258.15		
95% of values less than 1258.15		
Minimum 1258.15	Maximum 1258.15	
Mean 1258.15	Std. Dev. 4.13288E-005	Variance 1.70807E-009

Phase: Cell 8

Aquifer Flow [m³/year]

At 29 years

05% of values less than 27837.9
10% of values less than 32866.7
50% of values less than 86019.9
90% of values less than 239520
95% of values less than 269154

Minimum 0	Maximum 430220	
Mean 110774	Std. Dev. 79638.6	Variance 6.3423E+009

At 54 years

05% of values less than 27837.9
10% of values less than 32866.7
50% of values less than 86019.9
90% of values less than 239520
95% of values less than 269154

Minimum 0	Maximum 430220	
Mean 110774	Std. Dev. 79638.6	Variance 6.3423E+009

At 154 years

05% of values less than 27837.9
10% of values less than 32866.7
50% of values less than 86019.9
90% of values less than 239520
95% of values less than 269154

Minimum 0	Maximum 430220	
Mean 110774	Std. Dev. 79638.6	Variance 6.3423E+009

At 1054 years

05% of values less than 27837.9
10% of values less than 32866.7
50% of values less than 86019.9
90% of values less than 239520
95% of values less than 269154

Minimum 0	Maximum 430220	
Mean 110774	Std. Dev. 79638.6	Variance 6.3423E+009

At infinity

05% of values less than 27837.9
10% of values less than 32866.7
50% of values less than 86019.9
90% of values less than 239520
95% of values less than 269154

Minimum 0	Maximum 430220	
Mean 110774	Std. Dev. 79638.6	Variance 6.3423E+009

Phase: Cell 9

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 11.1395
10% of values less than 12.9584
50% of values less than 18.0455
90% of values less than 24.0617
95% of values less than 25.7635

Minimum 7.7977	Maximum 33.1929	
Mean 18.3419	Std. Dev. 4.46935	Variance 19.9751

At 54 years

05% of values less than 10.9956
10% of values less than 12.791
50% of values less than 17.8124
90% of values less than 23.7509
95% of values less than 25.4306

Minimum 7.69696	Maximum 32.7641	
Mean 18.1066	Std. Dev. 4.41165	Variance 19.4626

At 154 years

05% of values less than 10.4419
10% of values less than 12.1469
50% of values less than 16.9154
90% of values less than 22.5549
95% of values less than 24.1501

Minimum 7.30938	Maximum 31.1196	
Mean 17.1954	Std. Dev. 4.18943	Variance 17.5513

At 1054 years

05% of values less than 6.61669
10% of values less than 7.69708
50% of values less than 10.7187
90% of values less than 14.2923
95% of values less than 15.3031

Minimum 4.6317	Maximum 19.7194	
Mean 10.8947	Std. Dev. 2.65466	Variance 7.04723

At infinity

05% of values less than 0.000446249
10% of values less than 0.000519113
50% of values less than 0.000722902
90% of values less than 0.00095967
95% of values less than 0.00103208

Minimum 0.000312375	Maximum 0.00132993	
Mean 0.000733885	Std. Dev. 0.00017912	Variance 3.20841E-008

Phase: Cell 9

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 1.60891E-022
10% of values less than 3.63056E-019
50% of values less than 1.35941E-010
90% of values less than 0.00017827
95% of values less than 0.000602241

Minimum 2.35869E-028	Maximum 0.00455818	
Mean 0.000126997	Std. Dev. 0.000560125	Variance 3.1374E-007

At 54 years

05% of values less than 1.60891E-022
10% of values less than 3.63056E-019
50% of values less than 1.35941E-010
90% of values less than 0.000178203
95% of values less than 0.000600686

Minimum 2.35869E-028	Maximum 0.00452952	
Mean 0.000126412	Std. Dev. 0.000556928	Variance 3.10169E-007

At 154 years

05% of values less than 1.60891E-022
10% of values less than 3.63056E-019
50% of values less than 1.35941E-010
90% of values less than 0.000177936
95% of values less than 0.000594507

Minimum 2.35869E-028	Maximum 0.0044174	
Mean 0.000124104	Std. Dev. 0.000544387	Variance 2.96358E-007

At 1054 years

05% of values less than 1.60891E-022
10% of values less than 3.63056E-019
50% of values less than 1.35941E-010
90% of values less than 0.000175595
95% of values less than 0.00054258

Minimum 2.35869E-028	Maximum 0.00354034	
Mean 0.000105724	Std. Dev. 0.00044574	Variance 1.98684E-007

At infinity

05% of values less than 1.60891E-022
10% of values less than 3.63056E-019
50% of values less than 1.35941E-010
90% of values less than 4.41593E-005
95% of values less than 0.000102856

Minimum 2.35869E-028	Maximum 0.000136024	
Mean 1.23744E-005	Std. Dev. 3.14414E-005	Variance 9.88565E-010

Phase: Cell 9

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 1.04473E-023
10% of values less than 3.03445E-020
50% of values less than 3.56361E-010
90% of values less than 0.00331627
95% of values less than 0.0222646

Minimum 3.67574E-028	Maximum 0.115645	
Mean 0.00405251	Std. Dev. 0.0159512	Variance 0.00025444

At 54 years

05% of values less than 1.04473E-023
10% of values less than 3.03445E-020
50% of values less than 3.56361E-010
90% of values less than 0.00331401
95% of values less than 0.022187

Minimum 3.67574E-028	Maximum 0.114963	
Mean 0.00403359	Std. Dev. 0.0158651	Variance 0.000251702

At 154 years

05% of values less than 1.04473E-023
10% of values less than 3.03445E-020
50% of values less than 3.56361E-010
90% of values less than 0.00330502
95% of values less than 0.0218814

Minimum 3.67574E-028	Maximum 0.112291	
Mean 0.00395927	Std. Dev. 0.0155279	Variance 0.000241116

At 1054 years

05% of values less than 1.04473E-023
10% of values less than 3.03445E-020
50% of values less than 3.56361E-010
90% of values less than 0.00322668
95% of values less than 0.0193596

Minimum 3.67574E-028	Maximum 0.0912369	
Mean 0.0033641	Std. Dev. 0.0128518	Variance 0.00016517

At infinity

05% of values less than 1.04473E-023
10% of values less than 3.03445E-020
50% of values less than 3.56361E-010
90% of values less than 0.00139087
95% of values less than 0.00161615

Minimum 3.67574E-028	Maximum 0.00208008	
Mean 0.000269177	Std. Dev. 0.000573847	Variance 3.29301E-007

Phase: Cell 9

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 4.11113E-024
10% of values less than 2.29554E-021
50% of values less than 1.58232E-009
90% of values less than 0.0480322
95% of values less than 0.230451

Minimum 5.46331E-029	Maximum 1.52533	
Mean 0.0378727	Std. Dev. 0.155001	Variance 0.0240253

At 54 years

05% of values less than 4.11113E-024
10% of values less than 2.29554E-021
50% of values less than 1.58232E-009
90% of values less than 0.0476016
95% of values less than 0.228149

Minimum 5.46331E-029	Maximum 1.50821	
Mean 0.0374814	Std. Dev. 0.153325	Variance 0.0235085

At 154 years

05% of values less than 4.11113E-024
10% of values less than 2.29554E-021
50% of values less than 1.58232E-009
90% of values less than 0.0459286
95% of values less than 0.219228

Minimum 5.46331E-029	Maximum 1.44217	
Mean 0.0359565	Std. Dev. 0.146814	Variance 0.0215542

At 1054 years

05% of values less than 4.11113E-024
10% of values less than 2.29554E-021
50% of values less than 1.58232E-009
90% of values less than 0.0334867
95% of values less than 0.15415

Minimum 5.46331E-029	Maximum 0.970715	
Mean 0.0248914	Std. Dev. 0.100001	Variance 0.0100001

At infinity

05% of values less than 4.11113E-024
10% of values less than 2.29554E-021
50% of values less than 1.58232E-009
90% of values less than 4.32955E-005
95% of values less than 9.29171E-005

Minimum 5.46331E-029	Maximum 0.00023327	
Mean 1.32371E-005	Std. Dev. 3.49247E-005	Variance 1.21974E-009

Phase: Cell 9

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.0193412
10% of values less than 0.0441244
50% of values less than 0.421337
90% of values less than 2.7492
95% of values less than 3.87188

Minimum 0.000227469	Maximum 6.42927	
Mean 1.00574	Std. Dev. 1.32159	Variance 1.74659

At 54 years

05% of values less than 0.059639
10% of values less than 0.115291
50% of values less than 0.755784
90% of values less than 3.09653
95% of values less than 4.14613

Minimum 0.00536456	Maximum 6.79177	
Mean 1.2353	Std. Dev. 1.35156	Variance 1.82671

At 154 years

05% of values less than 0.124896
10% of values less than 0.192041
50% of values less than 0.954475
90% of values less than 3.43182
95% of values less than 4.40062

Minimum 0.0292462	Maximum 6.96004	
Mean 1.4455	Std. Dev. 1.41728	Variance 2.00868

At 1054 years

05% of values less than 0.071653
10% of values less than 0.163437
50% of values less than 0.809687
90% of values less than 2.69058
95% of values less than 3.53909

Minimum 0	Maximum 5.50924	
Mean 1.17699	Std. Dev. 1.12629	Variance 1.26853

At infinity

05% of values less than 0
10% of values less than 0.0642722
50% of values less than 0.491669
90% of values less than 1.52387
95% of values less than 2.04599

Minimum 0	Maximum 3.50811	
Mean 0.700436	Std. Dev. 0.651625	Variance 0.424615

Phase: Cell 9

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.49005E-014
95% of values less than 1.92047E-012

Minimum 0	Maximum 2.51782E-006	
Mean 1.32891E-008	Std. Dev. 1.77689E-007	Variance 3.15734E-014

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.54309E-012
95% of values less than 1.34622E-008

Minimum 0	Maximum 0.000197587	
Mean 1.01636E-006	Std. Dev. 1.39363E-005	Variance 1.94221E-010

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.71019E-008
95% of values less than 2.28467E-006

Minimum 0	Maximum 0.00356391	
Mean 2.01918E-005	Std. Dev. 0.000251883	Variance 6.34449E-008

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 6.55178E-015
90% of values less than 4.35308E-006
95% of values less than 0.000161256

Minimum 0	Maximum 0.0038399	
Mean 6.43192E-005	Std. Dev. 0.000399899	Variance 1.59919E-007

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 8.90837E-011
90% of values less than 7.66358E-005
95% of values less than 0.000131869

Minimum 0	Maximum 0.000431469	
Mean 1.86361E-005	Std. Dev. 5.40901E-005	Variance 2.92573E-009

Phase: Cell 9

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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 1.71295E-016		
Minimum 0	Maximum 3.12861E-015	
Mean 6.14977E-017	Std. Dev. 3.37241E-016	Variance 1.13732E-031

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.69777E-015		
90% of values less than 2.49138E-008		
95% of values less than 6.7924E-007		
Minimum 0	Maximum 6.46146E-005	
Mean 5.135E-007	Std. Dev. 4.71951E-006	Variance 2.22738E-011

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.54658E-010		
90% of values less than 0.00266718		
95% of values less than 0.0047051		
Minimum 0	Maximum 0.0206071	
Mean 0.000853791	Std. Dev. 0.0026576	Variance 7.06286E-006

Phase: Cell 9

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.17945E-012
90% of values less than 2.76095E-005
95% of values less than 0.000681032

Minimum 0	Maximum 0.0233741	
Mean 0.000387658	Std. Dev. 0.00236198	Variance 5.57895E-006

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.18218E-012
90% of values less than 4.12025E-005
95% of values less than 0.000362399

Minimum 0	Maximum 0.0458432	
Mean 0.000650653	Std. Dev. 0.00440798	Variance 1.94302E-005

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.98206E-012
90% of values less than 6.13851E-005
95% of values less than 0.000960212

Minimum 0	Maximum 0.0503975	
Mean 0.000944011	Std. Dev. 0.00544418	Variance 2.96391E-005

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.38988E-012
90% of values less than 4.36569E-005
95% of values less than 0.000899436

Minimum 0	Maximum 0.0451034	
Mean 0.00077409	Std. Dev. 0.0046157	Variance 2.13046E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.93106E-013
90% of values less than 2.1157E-005
95% of values less than 0.000258724

Minimum 0	Maximum 0.0331002	
Mean 0.000441455	Std. Dev. 0.00310481	Variance 9.63982E-006

Phase: Cell 9

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 7.66904E-012
95% of values less than 2.31976E-010

Minimum 0	Maximum 1.52119E-007	
Mean 1.12686E-009	Std. Dev. 1.10485E-008	Variance 1.22069E-016

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 3.94517E-011
90% of values less than 2.07722E-005
95% of values less than 0.000121254

Minimum 0	Maximum 0.00325546	
Mean 5.52688E-005	Std. Dev. 0.000319473	Variance 1.02063E-007

At 154 years

05% of values less than 1.46529E-008
10% of values less than 5.61592E-008
50% of values less than 2.38484E-005
90% of values less than 0.00347173
95% of values less than 0.00852806

Minimum 1.45103E-010	Maximum 0.0915929	
Mean 0.00190606	Std. Dev. 0.00805205	Variance 6.48354E-005

At 1054 years

05% of values less than 4.75834E-008
10% of values less than 1.64278E-007
50% of values less than 2.90608E-005
90% of values less than 0.0032528
95% of values less than 0.00717047

Minimum 4.73278E-010	Maximum 0.0754477	
Mean 0.00166813	Std. Dev. 0.0067254	Variance 4.5231E-005

At infinity

05% of values less than 8.75967E-014
10% of values less than 1.31166E-008
50% of values less than 1.58117E-005
90% of values less than 0.0017551
95% of values less than 0.00438507

Minimum 0	Maximum 0.039408	
Mean 0.000946304	Std. Dev. 0.00369176	Variance 1.36291E-005

Phase: Cell 9

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 1.85167E-011	
Mean 9.27504E-014	Std. Dev. 1.30604E-012	Variance 1.70575E-024

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.32597E-011
95% of values less than 9.04968E-009

Minimum 0	Maximum 0.00417676	
Mean 3.76925E-005	Std. Dev. 0.000372849	Variance 1.39016E-007

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.69017E-013
90% of values less than 3.18537E-005
95% of values less than 0.000151764

Minimum 0	Maximum 0.000457754	
Mean 1.66316E-005	Std. Dev. 5.93511E-005	Variance 3.52255E-009

Phase: Cell 9

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.84802E-012
90% of values less than 3.82804E-005
95% of values less than 0.000289125

Minimum 0	Maximum 0.00988056	
Mean 0.000111405	Std. Dev. 0.000762269	Variance 5.81053E-007

Phase: Cell 9

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.74798E-016
95% of values less than 1.84873E-014

Minimum 0	Maximum 5.44634E-012	
Mean 4.01605E-014	Std. Dev. 4.04764E-013	Variance 1.63834E-025

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.13301E-012
95% of values less than 1.59277E-010

Minimum 0	Maximum 2.97202E-009	
Mean 5.73583E-011	Std. Dev. 3.22724E-010	Variance 1.04151E-019

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.1694E-012
95% of values less than 1.58574E-010

Minimum 0	Maximum 4.51842E-009	
Mean 7.42268E-011	Std. Dev. 4.30848E-010	Variance 1.8563E-019

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 8.30092E-013
95% of values less than 1.32865E-010

Minimum 0	Maximum 1.9695E-009	
Mean 4.53623E-011	Std. Dev. 2.38698E-010	Variance 5.69767E-020

Phase: Cell 9

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

05% of values less than 172
10% of values less than 172
50% of values less than 210
90% of values less than 282
95% of values less than 312

Minimum 156	Maximum 380	
Mean 225.821	Std. Dev. 47.6949	Variance 2274.81

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

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

Minimum 0	Maximum 20000	
Mean 13074.7	Std. Dev. 8841.61	Variance 7.8174E+007

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

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

Minimum 0	Maximum 20000	
Mean 14726.4	Std. Dev. 8834.58	Variance 7.80498E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 210
95% of values less than 232

Minimum 0	Maximum 312	
Mean 53.3532	Std. Dev. 93.7411	Variance 8787.4

Phase: Cell 9

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.87242E-014
95% of values less than 1.11008E-012

Minimum 0	Maximum 7.59652E-010	
Mean 5.02431E-012	Std. Dev. 5.41856E-011	Variance 2.93608E-021

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.25196E-013
90% of values less than 1.62301E-007
95% of values less than 7.61236E-007

Minimum 0	Maximum 2.3586E-005	
Mean 4.34784E-007	Std. Dev. 2.44813E-006	Variance 5.99333E-012

At 154 years

05% of values less than 5.92626E-011
10% of values less than 3.68579E-010
50% of values less than 1.89519E-007
90% of values less than 2.90357E-005
95% of values less than 7.26703E-005

Minimum 5.25558E-013	Maximum 0.000926047	
Mean 2.11683E-005	Std. Dev. 9.35699E-005	Variance 8.75532E-009

At 1054 years

05% of values less than 3.01384E-010
10% of values less than 1.00293E-009
50% of values less than 3.14548E-007
90% of values less than 3.12772E-005
95% of values less than 6.6076E-005

Minimum 5.34665E-012	Maximum 0.000783669	
Mean 1.93811E-005	Std. Dev. 8.16379E-005	Variance 6.66475E-009

At infinity

05% of values less than 4.40662E-015
10% of values less than 1.2641E-010
50% of values less than 1.74628E-007
90% of values less than 1.77342E-005
95% of values less than 4.26391E-005

Minimum 0	Maximum 0.000404843	
Mean 1.11482E-005	Std. Dev. 4.56203E-005	Variance 2.08121E-009

Phase: Cell 9

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 8.59227E-016	
Mean 4.27476E-018	Std. Dev. 6.06052E-017	Variance 3.67299E-033

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.69655E-017		
95% of values less than 3.50458E-013		
Minimum 0	Maximum 1.11891E-005	
Mean 5.58464E-008	Std. Dev. 7.89206E-007	Variance 6.22846E-013

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 6.44464E-015		
90% of values less than 7.68523E-008		
95% of values less than 9.62993E-007		
Minimum 0	Maximum 5.63171E-005	
Mean 4.3977E-007	Std. Dev. 4.03361E-006	Variance 1.627E-011

Phase: Cell 9

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.39793E-014		
90% of values less than 1.44739E-007		
95% of values less than 1.15496E-006		
Minimum 0	Maximum 4.50591E-005	
Mean 4.53651E-007	Std. Dev. 3.43411E-006	Variance 1.17931E-011

Phase: Cell 9

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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 1.08549E-018

Minimum 0	Maximum 1.27581E-015	
Mean 1.29283E-017	Std. Dev. 1.17565E-016	Variance 1.38216E-032

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.58342E-015
95% of values less than 4.72645E-013

Minimum 0	Maximum 1.29704E-011	
Mean 1.49523E-013	Std. Dev. 1.04207E-012	Variance 1.0859E-024

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.41147E-015
95% of values less than 5.38012E-013

Minimum 0	Maximum 2.70871E-011	
Mean 2.45698E-013	Std. Dev. 2.00525E-012	Variance 4.02105E-024

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.51003E-015
95% of values less than 3.90791E-013

Minimum 0	Maximum 9.41004E-012	
Mean 1.32584E-013	Std. Dev. 8.26812E-013	Variance 6.83618E-025

Phase: Cell 9

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

05% of values less than 190
10% of values less than 190
50% of values less than 232
90% of values less than 312
95% of values less than 344

Minimum 154	Maximum 420	
Mean 248.07	Std. Dev. 52.1388	Variance 2718.46

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

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

Minimum 0	Maximum 20000	
Mean 13063	Std. Dev. 9015.04	Variance 8.1271E+007

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

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

Minimum 0	Maximum 20000	
Mean 14328.4	Std. Dev. 9037.24	Variance 8.16716E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 232
95% of values less than 256

Minimum 0	Maximum 344	
Mean 55.7512	Std. Dev. 101.912	Variance 10386.1

Phase: Cell 9

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1652.98
95% of values less than 1929.12

Minimum 0	Maximum 2259.16	
Mean 377.666	Std. Dev. 674.307	Variance 454690

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 9

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1.04366
95% of values less than 1.06842

Minimum 1	Maximum 1.11836	
Mean 1.00853	Std. Dev. 0.0248038	Variance 0.00061523

At 154 years

05% of values less than 0.508784
10% of values less than 0.508784
50% of values less than 0.508784
90% of values less than 0.693349
95% of values less than 1.05048

Minimum 0.508784	Maximum 1.64744	
Mean 0.574901	Std. Dev. 0.204839	Variance 0.0419592

At 1054 years

05% of values less than 0.508781
10% of values less than 0.508781
50% of values less than 0.508781
90% of values less than 0.508781
95% of values less than 0.508781

Minimum 0.508781	Maximum 0.90174	
Mean 0.517417	Std. Dev. 0.0476472	Variance 0.00227025

At infinity

05% of values less than 0.508781
10% of values less than 0.508781
50% of values less than 0.508781
90% of values less than 0.508781
95% of values less than 0.508781

Minimum 0.508781	Maximum 0.90174	
Mean 0.517417	Std. Dev. 0.0476472	Variance 0.00227025

Phase: Cell 9

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 9

Leakage through EBS [l/day]

At 29 years

05% of values less than 514.449
10% of values less than 790.589
50% of values less than 2443.57
90% of values less than 2443.57
95% of values less than 2443.57

Minimum 184.415	Maximum 2443.57	
Mean 2065.91	Std. Dev. 674.307	Variance 454690

At 54 years

05% of values less than 1531.78
10% of values less than 1877.88
50% of values less than 3239.14
90% of values less than 3239.14
95% of values less than 3239.14

Minimum 777.58	Maximum 3239.14	
Mean 3006.16	Std. Dev. 590.439	Variance 348618

At 154 years

05% of values less than 2443.58
10% of values less than 2443.58
50% of values less than 2443.58
90% of values less than 2513.72
95% of values less than 2676.78

Minimum 2443.58	Maximum 3738.2	
Mean 2481.05	Std. Dev. 150.566	Variance 22670

At 1054 years

05% of values less than 2443.57
10% of values less than 2443.57
50% of values less than 2443.57
90% of values less than 2443.57
95% of values less than 2443.57

Minimum 2443.57	Maximum 2452.95	
Mean 2443.9	Std. Dev. 1.5428	Variance 2.38024

At infinity

05% of values less than 2443.57
10% of values less than 2443.57
50% of values less than 2443.57
90% of values less than 2443.57
95% of values less than 2443.57

Minimum 2443.57	Maximum 2452.95	
Mean 2443.9	Std. Dev. 1.5428	Variance 2.38024

Phase: Cell 9

Aquifer Flow [m³/year]

At 29 years

05% of values less than 31372.9
10% of values less than 37040.3
50% of values less than 96943.1
90% of values less than 269935
95% of values less than 303332

Minimum 0	Maximum 484852	
Mean 124841	Std. Dev. 89751.4	Variance 8.05532E+009

At 54 years

05% of values less than 31372.9
10% of values less than 37040.3
50% of values less than 96943.1
90% of values less than 269935
95% of values less than 303332

Minimum 0	Maximum 484852	
Mean 124841	Std. Dev. 89751.4	Variance 8.05532E+009

At 154 years

05% of values less than 31372.9
10% of values less than 37040.3
50% of values less than 96943.1
90% of values less than 269935
95% of values less than 303332

Minimum 0	Maximum 484852	
Mean 124841	Std. Dev. 89751.4	Variance 8.05532E+009

At 1054 years

05% of values less than 31372.9
10% of values less than 37040.3
50% of values less than 96943.1
90% of values less than 269935
95% of values less than 303332

Minimum 0	Maximum 484852	
Mean 124841	Std. Dev. 89751.4	Variance 8.05532E+009

At infinity

05% of values less than 31372.9
10% of values less than 37040.3
50% of values less than 96943.1
90% of values less than 269935
95% of values less than 303332

Minimum 0	Maximum 484852	
Mean 124841	Std. Dev. 89751.4	Variance 8.05532E+009

Phase: Cell 10

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 11.2773
10% of values less than 12.6377
50% of values less than 18.5747
90% of values less than 24.457
95% of values less than 25.7938

Minimum 9.0644	Maximum 32.8433	
Mean 18.5934	Std. Dev. 4.56957	Variance 20.881

At 54 years

05% of values less than 11.1529
10% of values less than 12.4983
50% of values less than 18.3697
90% of values less than 24.1871
95% of values less than 25.5092

Minimum 8.96439	Maximum 32.4809	
Mean 18.3883	Std. Dev. 4.51916	Variance 20.4228

At 154 years

05% of values less than 10.6707
10% of values less than 11.9579
50% of values less than 17.5755
90% of values less than 23.1371
95% of values less than 24.4595

Minimum 8.57678	Maximum 31.0765	
Mean 17.5937	Std. Dev. 4.32367	Variance 18.6941

At 1054 years

05% of values less than 7.15702
10% of values less than 8.02039
50% of values less than 11.7882
90% of values less than 15.5185
95% of values less than 16.3818

Minimum 5.75262	Maximum 20.8436	
Mean 11.7996	Std. Dev. 2.8998	Variance 8.40885

At infinity

05% of values less than 0.00159671
10% of values less than 0.00178933
50% of values less than 0.00262992
90% of values less than 0.00346214
95% of values less than 0.00365473

Minimum 0.00128339	Maximum 0.00465015	
Mean 0.00263165	Std. Dev. 0.000647862	Variance 4.19725E-007

Phase: Cell 10

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 1.69424E-023
10% of values less than 6.40218E-021
50% of values less than 3.98382E-011
90% of values less than 9.97355E-005
95% of values less than 0.000432966

Minimum 6.36431E-030	Maximum 0.00427293	
Mean 9.71321E-005	Std. Dev. 0.000425578	Variance 1.81117E-007

At 54 years

05% of values less than 1.69424E-023
10% of values less than 6.40218E-021
50% of values less than 3.98382E-011
90% of values less than 9.97355E-005
95% of values less than 0.000432228

Minimum 6.36431E-030	Maximum 0.00425045	
Mean 9.67929E-005	Std. Dev. 0.000423655	Variance 1.79484E-007

At 154 years

05% of values less than 1.69424E-023
10% of values less than 6.40218E-021
50% of values less than 3.98382E-011
90% of values less than 9.97355E-005
95% of values less than 0.000429301

Minimum 6.36431E-030	Maximum 0.00416204	
Mean 9.54509E-005	Std. Dev. 0.000416067	Variance 1.73112E-007

At 1054 years

05% of values less than 1.69424E-023
10% of values less than 6.40218E-021
50% of values less than 3.98382E-011
90% of values less than 9.97355E-005
95% of values less than 0.000403736

Minimum 6.36431E-030	Maximum 0.0034421	
Mean 8.43086E-005	Std. Dev. 0.000353957	Variance 1.25285E-007

At infinity

05% of values less than 1.69424E-023
10% of values less than 6.40218E-021
50% of values less than 3.98382E-011
90% of values less than 7.46948E-005
95% of values less than 0.000109895

Minimum 6.36431E-030	Maximum 0.00013027	
Mean 1.37341E-005	Std. Dev. 3.35695E-005	Variance 1.12691E-009

Phase: Cell 10

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 1.14238E-023
10% of values less than 4.27668E-021
50% of values less than 3.42837E-011
90% of values less than 0.00218004
95% of values less than 0.0295757

Minimum 8.44294E-030	Maximum 0.152336	
Mean 0.00445623	Std. Dev. 0.0179573	Variance 0.000322466

At 54 years

05% of values less than 1.14238E-023
10% of values less than 4.27668E-021
50% of values less than 3.42837E-011
90% of values less than 0.00217991
95% of values less than 0.0294773

Minimum 8.44294E-030	Maximum 0.151517	
Mean 0.00443741	Std. Dev. 0.017872	Variance 0.00031941

At 154 years

05% of values less than 1.14238E-023
10% of values less than 4.27668E-021
50% of values less than 3.42837E-011
90% of values less than 0.00217943
95% of values less than 0.0290819

Minimum 8.44294E-030	Maximum 0.148297	
Mean 0.00436323	Std. Dev. 0.0175363	Variance 0.000307521

At 1054 years

05% of values less than 1.14238E-023
10% of values less than 4.27668E-021
50% of values less than 3.42837E-011
90% of values less than 0.00217506
95% of values less than 0.0257914

Minimum 8.44294E-030	Maximum 0.122137	
Mean 0.00375	Std. Dev. 0.0147825	Variance 0.000218524

At infinity

05% of values less than 1.14238E-023
10% of values less than 4.27668E-021
50% of values less than 3.42837E-011
90% of values less than 0.00205362
95% of values less than 0.00206508

Minimum 8.44294E-030	Maximum 0.00208503	
Mean 0.000282047	Std. Dev. 0.000662749	Variance 4.39237E-007

Phase: Cell 10

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 5.448E-025
10% of values less than 1.43339E-021
50% of values less than 3.17684E-009
90% of values less than 0.0100148
95% of values less than 0.0785048

Minimum 9.72566E-029	Maximum 1.09063	
Mean 0.0199124	Std. Dev. 0.106106	Variance 0.0112585

At 54 years

05% of values less than 5.448E-025
10% of values less than 1.43339E-021
50% of values less than 3.17684E-009
90% of values less than 0.00994695
95% of values less than 0.0778827

Minimum 9.72566E-029	Maximum 1.08039	
Mean 0.0197375	Std. Dev. 0.105129	Variance 0.011052

At 154 years

05% of values less than 5.448E-025
10% of values less than 1.43339E-021
50% of values less than 3.17684E-009
90% of values less than 0.00968114
95% of values less than 0.0754529

Minimum 9.72566E-029	Maximum 1.04054	
Mean 0.0190564	Std. Dev. 0.101324	Variance 0.0102665

At 1054 years

05% of values less than 5.448E-025
10% of values less than 1.43339E-021
50% of values less than 3.17684E-009
90% of values less than 0.0075793
95% of values less than 0.0566618

Minimum 9.72566E-029	Maximum 0.740888	
Mean 0.0138737	Std. Dev. 0.0726217	Variance 0.0052739

At infinity

05% of values less than 5.448E-025
10% of values less than 1.43339E-021
50% of values less than 3.17684E-009
90% of values less than 4.3849E-005
95% of values less than 0.000136406

Minimum 9.72566E-029	Maximum 0.000581603	
Mean 2.10168E-005	Std. Dev. 7.17684E-005	Variance 5.15071E-009

Phase: Cell 10

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.0265757		
10% of values less than 0.048431		
50% of values less than 0.370751		
90% of values less than 2.59134		
95% of values less than 3.97746		
Minimum 1.49404E-005	Maximum 4.715	
Mean 0.886574	Std. Dev. 1.17423	Variance 1.37882

At 54 years

05% of values less than 0.0752215		
10% of values less than 0.112834		
50% of values less than 0.593542		
90% of values less than 2.6813		
95% of values less than 4.20332		
Minimum 0.00290978	Maximum 5.06822	
Mean 1.10054	Std. Dev. 1.22093	Variance 1.49067

At 154 years

05% of values less than 0.136302		
10% of values less than 0.202404		
50% of values less than 0.828512		
90% of values less than 2.85912		
95% of values less than 4.15963		
Minimum 0.0751755	Maximum 6.05249	
Mean 1.29443	Std. Dev. 1.23226	Variance 1.51847

At 1054 years

05% of values less than 0.065586		
10% of values less than 0.105543		
50% of values less than 0.482186		
90% of values less than 1.75368		
95% of values less than 2.6885		
Minimum 0	Maximum 3.77533	
Mean 0.791908	Std. Dev. 0.788868	Variance 0.622313

At infinity

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		
Minimum 0	Maximum 0.547662	
Mean 0.00382594	Std. Dev. 0.0409131	Variance 0.00167389

Phase: Cell 10

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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 4.85374E-012

Minimum 0	Maximum 3.45084E-005	
Mean 1.72522E-007	Std. Dev. 2.434E-006	Variance 5.92434E-012

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.63556E-015
95% of values less than 4.80409E-010

Minimum 0	Maximum 0.000391465	
Mean 1.97559E-006	Std. Dev. 2.76106E-005	Variance 7.62344E-010

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.67922E-009
95% of values less than 6.60811E-008

Minimum 0	Maximum 0.000834837	
Mean 5.14402E-006	Std. Dev. 5.95868E-005	Variance 3.55059E-009

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.42353E-016
90% of values less than 9.23436E-007
95% of values less than 4.91665E-005

Minimum 0	Maximum 0.0010457	
Mean 1.52092E-005	Std. Dev. 9.68984E-005	Variance 9.38929E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.25383E-011
90% of values less than 7.66881E-005
95% of values less than 0.00013027

Minimum 0	Maximum 0.000423526	
Mean 1.91476E-005	Std. Dev. 5.7923E-005	Variance 3.35507E-009

Phase: Cell 10

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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 2.44797E-016		
Minimum 0	Maximum 1.54769E-015	
Mean 2.88759E-017	Std. Dev. 1.39229E-016	Variance 1.93848E-032

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 6.07898E-017		
90% of values less than 1.01835E-008		
95% of values less than 7.17271E-008		
Minimum 0	Maximum 1.34287E-005	
Mean 1.39675E-007	Std. Dev. 1.1559E-006	Variance 1.33611E-012

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.40678E-011		
90% of values less than 0.00210566		
95% of values less than 0.00517946		
Minimum 0	Maximum 0.0167008	
Mean 0.000670039	Std. Dev. 0.00207923	Variance 4.32321E-006

Phase: Cell 10

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.82813E-012
90% of values less than 5.68397E-006
95% of values less than 0.000169869

Minimum 0	Maximum 0.0364967	
Mean 0.00033203	Std. Dev. 0.00293661	Variance 8.62365E-006

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.85202E-012
90% of values less than 8.42291E-006
95% of values less than 0.000209637

Minimum 0	Maximum 0.0844785	
Mean 0.000699274	Std. Dev. 0.00654389	Variance 4.28225E-005

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.88998E-012
90% of values less than 1.26252E-005
95% of values less than 0.000363395

Minimum 0	Maximum 0.0853645	
Mean 0.000736571	Std. Dev. 0.00660135	Variance 4.35778E-005

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.89E-012
90% of values less than 7.2801E-006
95% of values less than 0.000254306

Minimum 0	Maximum 0.0580863	
Mean 0.000498242	Std. Dev. 0.00448383	Variance 2.01048E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.89709E-011
95% of values less than 3.31089E-010

Minimum 0	Maximum 0.000444936	
Mean 2.21386E-006	Std. Dev. 3.13833E-005	Variance 9.84914E-010

Phase: Cell 10

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.75166E-009
95% of values less than 1.4118E-007

Minimum 0	Maximum 6.26059E-005	
Mean 4.11012E-007	Std. Dev. 4.45811E-006	Variance 1.98748E-011

At 54 years

05% of values less than 3.20981E-016
10% of values less than 2.15856E-013
50% of values less than 2.44705E-008
90% of values less than 0.00036247
95% of values less than 0.00152468

Minimum 0	Maximum 0.0347367	
Mean 0.000607755	Std. Dev. 0.00318245	Variance 1.0128E-005

At 154 years

05% of values less than 1.94842E-007
10% of values less than 1.71869E-006
50% of values less than 0.000127533
90% of values less than 0.00874867
95% of values less than 0.0148646

Minimum 1.38678E-010	Maximum 0.117179	
Mean 0.00489334	Std. Dev. 0.0147006	Variance 0.000216108

At 1054 years

05% of values less than 7.12642E-007
10% of values less than 2.47786E-006
50% of values less than 0.000154175
90% of values less than 0.00845456
95% of values less than 0.0131998

Minimum 1.53734E-009	Maximum 0.0919577	
Mean 0.00394828	Std. Dev. 0.0114658	Variance 0.000131465

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.33178E-015
90% of values less than 8.14166E-011
95% of values less than 2.54888E-010

Minimum 0	Maximum 0.000696593	
Mean 3.80283E-006	Std. Dev. 4.92254E-005	Variance 2.42314E-009

Phase: Cell 10

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 4.13532E-007	
Mean 2.37243E-009	Std. Dev. 2.94795E-008	Variance 8.6904E-016

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 7.40392E-012
95% of values less than 1.80744E-008

Minimum 0	Maximum 0.000808605	
Mean 4.97533E-006	Std. Dev. 5.82467E-005	Variance 3.39268E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.3041E-013
90% of values less than 9.71757E-006
95% of values less than 9.85196E-005

Minimum 0	Maximum 0.0012045	
Mean 1.72183E-005	Std. Dev. 9.53919E-005	Variance 9.09962E-009

Phase: Cell 10

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.7302E-012
90% of values less than 0.000265025
95% of values less than 0.00220934

Minimum 0	Maximum 0.0122914	
Mean 0.00035257	Std. Dev. 0.00150663	Variance 2.26993E-006

Phase: Cell 10

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

At 29 years

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

Minimum 0	Maximum 4.00044E-014	
Mean 1.99915E-016	Std. Dev. 2.82166E-015	Variance 7.96175E-030

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.24649E-014
95% of values less than 2.67476E-013

Minimum 0	Maximum 1.54495E-007	
Mean 7.80924E-010	Std. Dev. 1.08971E-008	Variance 1.18746E-016

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.0894E-012
95% of values less than 2.29288E-010

Minimum 0	Maximum 5.17573E-005	
Mean 2.6245E-007	Std. Dev. 3.65083E-006	Variance 1.33285E-011

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 8.18984E-012
95% of values less than 2.08581E-010

Minimum 0	Maximum 4.63367E-005	
Mean 2.35504E-007	Std. Dev. 3.26841E-006	Variance 1.06825E-011

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.31441E-015
95% of values less than 3.18746E-014

Minimum 0	Maximum 8.984E-008	
Mean 4.47018E-010	Std. Dev. 6.33682E-009	Variance 4.01553E-017

Phase: Cell 10

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

05% of values less than 190
10% of values less than 190
50% of values less than 232
90% of values less than 282
95% of values less than 282

Minimum 95	Maximum 344	
Mean 229.587	Std. Dev. 32.424	Variance 1051.31

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

05% of values less than 0
10% of values less than 0
50% of values less than 16406
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 11550.5	Std. Dev. 9223.64	Variance 8.50755E+007

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

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

Minimum 0	Maximum 20000	
Mean 14328.4	Std. Dev. 9037.24	Variance 8.16716E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 256
95% of values less than 312

Minimum 0	Maximum 1681	
Mean 143.493	Std. Dev. 306.753	Variance 94097.7

Phase: Cell 10

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.08238E-012
95% of values less than 7.13833E-010

Minimum 0	Maximum 5.61865E-007	
Mean 3.22607E-009	Std. Dev. 3.97392E-008	Variance 1.5792E-015

At 54 years

05% of values less than 0
10% of values less than 2.61768E-016
50% of values less than 1.0188E-010
90% of values less than 2.5E-006
95% of values less than 1.18865E-005

Minimum 0	Maximum 0.000613847	
Mean 6.39378E-006	Std. Dev. 4.61265E-005	Variance 2.12765E-009

At 154 years

05% of values less than 1.33162E-009
10% of values less than 1.14313E-008
50% of values less than 1.35133E-006
90% of values less than 0.000127862
95% of values less than 0.00026385

Minimum 6.32177E-013	Maximum 0.00201826	
Mean 6.04129E-005	Std. Dev. 0.000202947	Variance 4.11876E-008

At 1054 years

05% of values less than 6.70644E-009
10% of values less than 3.16306E-008
50% of values less than 1.87966E-006
90% of values less than 0.000110993
95% of values less than 0.000219351

Minimum 1.03665E-011	Maximum 0.00163522	
Mean 5.19653E-005	Std. Dev. 0.000165878	Variance 2.75154E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.99913E-015
90% of values less than 1.52464E-012
95% of values less than 3.78775E-012

Minimum 0	Maximum 2.66172E-005	
Mean 1.34672E-007	Std. Dev. 1.8774E-006	Variance 3.52464E-012

Phase: Cell 10

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 3.22679E-012	
Mean 1.8723E-014	Std. Dev. 2.28983E-013	Variance 5.24332E-026

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.97107E-016		
95% of values less than 3.46356E-012		
Minimum 0	Maximum 2.83075E-006	
Mean 2.12625E-008	Std. Dev. 2.15647E-007	Variance 4.65037E-014

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 7.48172E-016		
90% of values less than 3.98013E-008		
95% of values less than 7.68797E-007		
Minimum 0	Maximum 1.06159E-005	
Mean 1.67186E-007	Std. Dev. 9.38211E-007	Variance 8.8024E-013

Phase: Cell 10

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.05983E-014
90% of values less than 9.65496E-007
95% of values less than 6.42522E-006

Minimum 0	Maximum 4.96434E-005	
Mean 1.35728E-006	Std. Dev. 5.92231E-006	Variance 3.50738E-011

Phase: Cell 10

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.96525E-018
95% of values less than 1.56679E-017

Minimum 0	Maximum 5.94872E-011	
Mean 2.97839E-013	Std. Dev. 4.19583E-012	Variance 1.7605E-023

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.56584E-014
95% of values less than 3.08668E-013

Minimum 0	Maximum 2.87104E-007	
Mean 1.43263E-009	Std. Dev. 2.02505E-008	Variance 4.10082E-016

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.78265E-014
95% of values less than 3.84125E-013

Minimum 0	Maximum 2.89395E-007	
Mean 1.44422E-009	Std. Dev. 2.0412E-008	Variance 4.16651E-016

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.362E-018
95% of values less than 1.73089E-016

Minimum 0	Maximum 5.58094E-011	
Mean 2.77849E-013	Std. Dev. 3.93648E-012	Variance 1.54959E-023

Phase: Cell 10

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

05% of values less than 210
10% of values less than 210
50% of values less than 256
90% of values less than 312
95% of values less than 312

Minimum 190	Maximum 380	
Mean 253.134	Std. Dev. 33.2966	Variance 1108.67

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

05% of values less than 0
10% of values less than 0
50% of values less than 18114
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 11563.7	Std. Dev. 9413.24	Variance 8.86092E+007

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

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

Minimum 0	Maximum 20000	
Mean 14029.9	Std. Dev. 9174.92	Variance 8.41791E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 282
95% of values less than 344

Minimum 0	Maximum 1523	
Mean 139.861	Std. Dev. 308.968	Variance 95461.5

Phase: Cell 10

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 166.496		
10% of values less than 166.496		
50% of values less than 166.496		
90% of values less than 1879.09		
95% of values less than 2137.61		
Minimum 166.496	Maximum 2451.8	
Mean 632.946	Std. Dev. 703.977	Variance 495583

At 54 years

05% of values less than 166.496		
10% of values less than 166.496		
50% of values less than 166.496		
90% of values less than 915.792		
95% of values less than 1360.52		
Minimum 166.496	Maximum 2366.32	
Mean 322.084	Std. Dev. 411.514	Variance 169344

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 10

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 1.13643
10% of values less than 1.13643
50% of values less than 1.13643
90% of values less than 1.13801
95% of values less than 1.34971

Minimum 1.13643	Maximum 3.04868	
Mean 1.1836	Std. Dev. 0.224641	Variance 0.0504637

At 1054 years

05% of values less than 1.13643
10% of values less than 1.13643
50% of values less than 1.13643
90% of values less than 1.13643
95% of values less than 1.13643

Minimum 1.13643	Maximum 1.75255	
Mean 1.14231	Std. Dev. 0.0588923	Variance 0.0034683

At infinity

05% of values less than 1.13643
10% of values less than 1.13643
50% of values less than 1.13643
90% of values less than 1.13643
95% of values less than 1.13643

Minimum 1.13643	Maximum 1.75255	
Mean 1.14231	Std. Dev. 0.0588923	Variance 0.0034683

Phase: Cell 10

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 10

Leakage through EBS [l/day]

At 29 years

05% of values less than 469.689
10% of values less than 728.21
50% of values less than 2440.8
90% of values less than 2440.8
95% of values less than 2440.8

Minimum 155.501	Maximum 2440.8	
Mean 1974.35	Std. Dev. 703.977	Variance 495583

At 54 years

05% of values less than 1246.77
10% of values less than 1691.5
50% of values less than 2440.8
90% of values less than 2440.8
95% of values less than 2440.8

Minimum 240.981	Maximum 2440.8	
Mean 2285.21	Std. Dev. 411.514	Variance 169344

At 154 years

05% of values less than 2607.29
10% of values less than 2607.29
50% of values less than 2607.29
90% of values less than 2609.23
95% of values less than 2615.75

Minimum 2607.29	Maximum 3618.8	
Mean 2622.18	Std. Dev. 96.595	Variance 9330.59

At 1054 years

05% of values less than 2607.3
10% of values less than 2607.3
50% of values less than 2607.3
90% of values less than 2607.3
95% of values less than 2607.3

Minimum 2607.3	Maximum 2621.38	
Mean 2607.43	Std. Dev. 1.38151	Variance 1.90857

At infinity

05% of values less than 2607.3
10% of values less than 2607.3
50% of values less than 2607.3
90% of values less than 2607.3
95% of values less than 2607.3

Minimum 2607.3	Maximum 2621.38	
Mean 2607.43	Std. Dev. 1.38151	Variance 1.90857

Phase: Cell 10

Aquifer Flow [m³/year]

At 29 years

05% of values less than 30820.6
10% of values less than 36388.2
50% of values less than 95236.3
90% of values less than 265183
95% of values less than 297992

Minimum 0	Maximum 476315	
Mean 122643	Std. Dev. 88171.3	Variance 7.77417E+009

At 54 years

05% of values less than 30820.6
10% of values less than 36388.2
50% of values less than 95236.3
90% of values less than 265183
95% of values less than 297992

Minimum 0	Maximum 476315	
Mean 122643	Std. Dev. 88171.3	Variance 7.77417E+009

At 154 years

05% of values less than 30820.6
10% of values less than 36388.2
50% of values less than 95236.3
90% of values less than 265183
95% of values less than 297992

Minimum 0	Maximum 476315	
Mean 122643	Std. Dev. 88171.3	Variance 7.77417E+009

At 1054 years

05% of values less than 30820.6
10% of values less than 36388.2
50% of values less than 95236.3
90% of values less than 265183
95% of values less than 297992

Minimum 0	Maximum 476315	
Mean 122643	Std. Dev. 88171.3	Variance 7.77417E+009

At infinity

05% of values less than 30820.6
10% of values less than 36388.2
50% of values less than 95236.3
90% of values less than 265183
95% of values less than 297992

Minimum 0	Maximum 476315	
Mean 122643	Std. Dev. 88171.3	Variance 7.77417E+009

Phase: Cell 11

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 11.3527
10% of values less than 13.4556
50% of values less than 18.3921
90% of values less than 25.4845
95% of values less than 27.1536

Minimum 9.86875	Maximum 32.8227	
Mean 18.9031	Std. Dev. 4.56984	Variance 20.8835

At 54 years

05% of values less than 11.2428
10% of values less than 13.3278
50% of values less than 18.2141
90% of values less than 25.2379
95% of values less than 26.8908

Minimum 9.77326	Maximum 32.5052	
Mean 18.7209	Std. Dev. 4.52547	Variance 20.4799

At 154 years

05% of values less than 10.8128
10% of values less than 12.8149
50% of values less than 17.5174
90% of values less than 24.2726
95% of values less than 25.8623

Minimum 9.39946	Maximum 31.2619	
Mean 18.0052	Std. Dev. 4.35209	Variance 18.9407

At 1054 years

05% of values less than 7.58202
10% of values less than 8.98587
50% of values less than 12.2833
90% of values less than 17.0201
95% of values less than 18.1348

Minimum 6.59096	Maximum 21.9211	
Mean 12.6248	Std. Dev. 3.05197	Variance 9.31453

At infinity

05% of values less than 0.00431191
10% of values less than 0.00511028
50% of values less than 0.00698556
90% of values less than 0.00967938
95% of values less than 0.0103133

Minimum 0.00374829	Maximum 0.0124665	
Mean 0.00717882	Std. Dev. 0.0017361	Variance 3.01404E-006

Phase: Cell 11

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 5.35473E-023
10% of values less than 2.62238E-021
50% of values less than 2.97405E-011
90% of values less than 0.000161313
95% of values less than 0.000745033

Minimum 3.48084E-028	Maximum 0.00583597	
Mean 0.000119574	Std. Dev. 0.000522859	Variance 2.73382E-007

At 54 years

05% of values less than 5.35473E-023
10% of values less than 2.62238E-021
50% of values less than 2.97405E-011
90% of values less than 0.000161289
95% of values less than 0.000743403

Minimum 3.48084E-028	Maximum 0.00580778	
Mean 0.000119195	Std. Dev. 0.000520645	Variance 2.71071E-007

At 154 years

05% of values less than 5.35473E-023
10% of values less than 2.62238E-021
50% of values less than 2.97405E-011
90% of values less than 0.000161196
95% of values less than 0.000736743

Minimum 3.48084E-028	Maximum 0.00569445	
Mean 0.000117678	Std. Dev. 0.000511773	Variance 2.61911E-007

At 1054 years

05% of values less than 5.35473E-023
10% of values less than 2.62238E-021
50% of values less than 2.97405E-011
90% of values less than 0.000160345
95% of values less than 0.000679148

Minimum 3.48084E-028	Maximum 0.0047362	
Mean 0.000104757	Std. Dev. 0.000436983	Variance 1.90954E-007

At infinity

05% of values less than 5.35473E-023
10% of values less than 2.62238E-021
50% of values less than 2.97405E-011
90% of values less than 0.000107371
95% of values less than 0.00012276

Minimum 3.48084E-028	Maximum 0.000144505	
Mean 1.73755E-005	Std. Dev. 4.04374E-005	Variance 1.63518E-009

Phase: Cell 11

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 3.23204E-024
10% of values less than 4.87852E-022
50% of values less than 1.96753E-011
90% of values less than 0.0103615
95% of values less than 0.0377746

Minimum 8.61752E-029	Maximum 0.292175	
Mean 0.00755392	Std. Dev. 0.0332739	Variance 0.00110715

At 54 years

05% of values less than 3.23204E-024
10% of values less than 4.87852E-022
50% of values less than 1.96753E-011
90% of values less than 0.0103433
95% of values less than 0.0376546

Minimum 8.61752E-029	Maximum 0.290617	
Mean 0.00752197	Std. Dev. 0.0331075	Variance 0.00109611

At 154 years

05% of values less than 3.23204E-024
10% of values less than 4.87852E-022
50% of values less than 1.96753E-011
90% of values less than 0.0102705
95% of values less than 0.0371771

Minimum 8.61752E-029	Maximum 0.284341	
Mean 0.00739446	Std. Dev. 0.032443	Variance 0.00105255

At 1054 years

05% of values less than 3.23204E-024
10% of values less than 4.87852E-022
50% of values less than 1.96753E-011
90% of values less than 0.00963105
95% of values less than 0.0331003

Minimum 8.61752E-029	Maximum 0.233223	
Mean 0.00633637	Std. Dev. 0.0269945	Variance 0.000728705

At infinity

05% of values less than 3.23204E-024
10% of values less than 4.87852E-022
50% of values less than 1.96753E-011
90% of values less than 0.00248868
95% of values less than 0.0028703

Minimum 8.61752E-029	Maximum 0.00359734	
Mean 0.000451161	Std. Dev. 0.000990842	Variance 9.81768E-007

Phase: Cell 11

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 4.07203E-024
10% of values less than 1.12423E-021
50% of values less than 2.41868E-010
90% of values less than 0.0156271
95% of values less than 0.181276

Minimum 1.15768E-027	Maximum 1.6066	
Mean 0.0361871	Std. Dev. 0.177409	Variance 0.0314741

At 54 years

05% of values less than 4.07203E-024
10% of values less than 1.12423E-021
50% of values less than 2.41868E-010
90% of values less than 0.0155309
95% of values less than 0.179944

Minimum 1.15768E-027	Maximum 1.59308	
Mean 0.0359005	Std. Dev. 0.175947	Variance 0.0309575

At 154 years

05% of values less than 4.07203E-024
10% of values less than 1.12423E-021
50% of values less than 2.41868E-010
90% of values less than 0.0151512
95% of values less than 0.174698

Minimum 1.15768E-027	Maximum 1.53999	
Mean 0.0347698	Std. Dev. 0.170187	Variance 0.0289636

At 1054 years

05% of values less than 4.07203E-024
10% of values less than 1.12423E-021
50% of values less than 2.41868E-010
90% of values less than 0.0120952
95% of values less than 0.133455

Minimum 1.15768E-027	Maximum 1.13122	
Mean 0.0259867	Std. Dev. 0.12573	Variance 0.0158081

At infinity

05% of values less than 4.07203E-024
10% of values less than 1.12423E-021
50% of values less than 2.41868E-010
90% of values less than 0.000105451
95% of values less than 0.000460637

Minimum 1.15768E-027	Maximum 0.00171139	
Mean 6.38981E-005	Std. Dev. 0.000227498	Variance 5.17552E-008

Phase: Cell 11

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.00311356
10% of values less than 0.0119961
50% of values less than 0.140002
90% of values less than 2.35483
95% of values less than 2.97913

Minimum 1.1225E-005	Maximum 4.53106	
Mean 0.639326	Std. Dev. 1.00268	Variance 1.00537

At 54 years

05% of values less than 0.0719275
10% of values less than 0.135118
50% of values less than 0.743297
90% of values less than 2.98191
95% of values less than 4.43702

Minimum 0.00652434	Maximum 6.27233	
Mean 1.18109	Std. Dev. 1.27135	Variance 1.61633

At 154 years

05% of values less than 0.188012
10% of values less than 0.248755
50% of values less than 0.942104
90% of values less than 3.09829
95% of values less than 4.43518

Minimum 0.0676711	Maximum 6.21906	
Mean 1.4112	Std. Dev. 1.28536	Variance 1.65216

At 1054 years

05% of values less than 0.0643618
10% of values less than 0.0932252
50% of values less than 0.496421
90% of values less than 1.90606
95% of values less than 2.75348

Minimum 0.0187084	Maximum 3.90933	
Mean 0.808677	Std. Dev. 0.812565	Variance 0.660262

At infinity

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

Minimum 0	Maximum 0.336397	
Mean 0.00167362	Std. Dev. 0.0237276	Variance 0.000563001

Phase: Cell 11

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.54165E-016
95% of values less than 9.12362E-014

Minimum 0	Maximum 3.07907E-009	
Mean 2.10253E-011	Std. Dev. 2.22557E-010	Variance 4.95318E-020

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.38823E-011
95% of values less than 1.36473E-009

Minimum 0	Maximum 1.03736E-005	
Mean 1.03021E-007	Std. Dev. 8.87374E-007	Variance 7.87433E-013

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.03746E-007
95% of values less than 5.60682E-006

Minimum 0	Maximum 0.000759517	
Mean 1.19176E-005	Std. Dev. 7.53091E-005	Variance 5.67145E-009

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.62526E-014
90% of values less than 3.49599E-005
95% of values less than 0.000303925

Minimum 0	Maximum 0.00230706	
Mean 5.64401E-005	Std. Dev. 0.000254673	Variance 6.48584E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.27764E-011
90% of values less than 9.72197E-005
95% of values less than 0.000145179

Minimum 0	Maximum 0.000197429	
Mean 1.87564E-005	Std. Dev. 4.68494E-005	Variance 2.19487E-009

Phase: Cell 11

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.23771E-017		
95% of values less than 1.42556E-016		
Minimum 0	Maximum 6.53006E-015	
Mean 1.16863E-016	Std. Dev. 6.70278E-016	Variance 4.49273E-031

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 5.08648E-017		
90% of values less than 2.77784E-008		
95% of values less than 8.43614E-007		
Minimum 0	Maximum 7.8468E-005	
Mean 1.41941E-006	Std. Dev. 8.99968E-006	Variance 8.09942E-011

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.95553E-011		
90% of values less than 0.00389567		
95% of values less than 0.00567229		
Minimum 0	Maximum 0.0145517	
Mean 0.000899728	Std. Dev. 0.00232065	Variance 5.3854E-006

Phase: Cell 11

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 4.29051E-014
90% of values less than 3.13461E-005
95% of values less than 0.000141485

Minimum 0	Maximum 0.00712022	
Mean 6.87138E-005	Std. Dev. 0.000528276	Variance 2.79076E-007

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.05151E-013
90% of values less than 9.61087E-005
95% of values less than 0.000469252

Minimum 0	Maximum 0.0699411	
Mean 0.000452619	Std. Dev. 0.00494883	Variance 2.44909E-005

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 4.1341E-013
90% of values less than 0.000105146
95% of values less than 0.000729755

Minimum 0	Maximum 0.0948863	
Mean 0.000635158	Std. Dev. 0.00674972	Variance 4.55587E-005

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 3.17268E-013
90% of values less than 7.08432E-005
95% of values less than 0.000280949

Minimum 0	Maximum 0.0513597	
Mean 0.000357305	Std. Dev. 0.00368554	Variance 1.35832E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.22433E-012
95% of values less than 2.27511E-010

Minimum 0	Maximum 9.22488E-009	
Mean 1.86917E-010	Std. Dev. 1.07775E-009	Variance 1.16154E-018

Phase: Cell 11

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

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.01738E-012		
95% of values less than 2.00837E-011		
Minimum 0	Maximum 4.8792E-007	
Mean 3.8668E-009	Std. Dev. 3.91885E-008	Variance 1.53574E-015

At 54 years

05% of values less than 3.58504E-015		
10% of values less than 7.81103E-014		
50% of values less than 2.76868E-008		
90% of values less than 0.000138822		
95% of values less than 0.00055452		
Minimum 0	Maximum 0.0160313	
Mean 0.000279939	Std. Dev. 0.00161827	Variance 2.61879E-006

At 154 years

05% of values less than 4.15898E-006		
10% of values less than 1.08009E-005		
50% of values less than 0.000594149		
90% of values less than 0.0169524		
95% of values less than 0.0311642		
Minimum 1.25821E-008	Maximum 0.0940759	
Mean 0.00589515	Std. Dev. 0.0145702	Variance 0.000212291

At 1054 years

05% of values less than 5.46708E-006		
10% of values less than 1.71603E-005		
50% of values less than 0.000635501		
90% of values less than 0.0136551		
95% of values less than 0.0243638		
Minimum 3.14797E-008	Maximum 0.0780863	
Mean 0.00497958	Std. Dev. 0.0116481	Variance 0.000135677

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.24295E-017		
90% of values less than 1.35349E-014		
95% of values less than 1.39329E-013		
Minimum 0	Maximum 0.00198545	
Mean 9.87786E-006	Std. Dev. 0.000140043	Variance 1.96119E-008

Phase: Cell 11

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 5.62594E-010	
Mean 2.9313E-012	Std. Dev. 3.97063E-011	Variance 1.57659E-021

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 4.31491E-012		
95% of values less than 5.96832E-009		
Minimum 0	Maximum 0.000750791	
Mean 4.24634E-006	Std. Dev. 5.31443E-005	Variance 2.82432E-009

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 2.08099E-012		
90% of values less than 4.66048E-005		
95% of values less than 0.000166473		
Minimum 0	Maximum 0.000789252	
Mean 2.8244E-005	Std. Dev. 9.96913E-005	Variance 9.93836E-009

Phase: Cell 11

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.34228E-012
90% of values less than 0.000912189
95% of values less than 0.00303323

Minimum 0	Maximum 0.0219093	
Mean 0.000653207	Std. Dev. 0.00273201	Variance 7.4639E-006

Phase: Cell 11

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.02297E-013		
95% of values less than 7.9142E-012		
Minimum 0	Maximum 5.37895E-010	
Mean 8.67E-012	Std. Dev. 4.93702E-011	Variance 2.43741E-021

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 2.68888E-010		
95% of values less than 1.21712E-008		
Minimum 0	Maximum 2.60142E-007	
Mean 3.38811E-009	Std. Dev. 2.12604E-008	Variance 4.52006E-016

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.66118E-010		
95% of values less than 8.5601E-009		
Minimum 0	Maximum 2.60154E-007	
Mean 3.56501E-009	Std. Dev. 2.17488E-008	Variance 4.73009E-016

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.82817E-016		
95% of values less than 1.70353E-014		
Minimum 0	Maximum 1.43011E-010	
Mean 8.49245E-013	Std. Dev. 1.01871E-011	Variance 1.03776E-022

Phase: Cell 11

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

05% of values less than 210
10% of values less than 210
50% of values less than 232
90% of values less than 282
95% of values less than 282

Minimum 190	Maximum 344	
Mean 236.756	Std. Dev. 26.9211	Variance 724.745

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

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

Minimum 0	Maximum 20000	
Mean 12581.7	Std. Dev. 8966.01	Variance 8.03894E+007

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

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

Minimum 0	Maximum 20000	
Mean 14726.4	Std. Dev. 8834.58	Variance 7.80498E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 256
95% of values less than 282

Minimum 0	Maximum 11039	
Mean 175.527	Std. Dev. 803.747	Variance 646010

Phase: Cell 11

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.35032E-016
95% of values less than 1.39701E-014

Minimum 0	Maximum 1.57883E-009	
Mean 1.30918E-011	Std. Dev. 1.32683E-010	Variance 1.76048E-020

At 54 years

05% of values less than 3.4396E-018
10% of values less than 6.10809E-017
50% of values less than 6.8112E-011
90% of values less than 3.57496E-007
95% of values less than 1.98514E-006

Minimum 0	Maximum 0.000179451	
Mean 1.66176E-006	Std. Dev. 1.39602E-005	Variance 1.94886E-010

At 154 years

05% of values less than 1.69074E-008
10% of values less than 9.00868E-008
50% of values less than 3.77769E-006
90% of values less than 0.000137366
95% of values less than 0.000201514

Minimum 2.34054E-011	Maximum 0.00131418	
Mean 4.66454E-005	Std. Dev. 0.000139824	Variance 1.95509E-008

At 1054 years

05% of values less than 4.13093E-008
10% of values less than 1.33462E-007
50% of values less than 4.57327E-006
90% of values less than 0.000149509
95% of values less than 0.000211179

Minimum 1.25964E-010	Maximum 0.00110782	
Mean 4.69129E-005	Std. Dev. 0.000125597	Variance 1.57747E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.57364E-019
90% of values less than 7.17848E-015
95% of values less than 2.12302E-013

Minimum 0	Maximum 6.11014E-005	
Mean 3.03987E-007	Std. Dev. 4.30976E-006	Variance 1.8574E-011

Phase: Cell 11

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 3.52522E-017	
Mean 2.4008E-019	Std. Dev. 2.64597E-018	Variance 7.00117E-036

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.41865E-018		
95% of values less than 4.47968E-014		
Minimum 0	Maximum 3.52753E-007	
Mean 1.81921E-009	Std. Dev. 2.48876E-008	Variance 6.19394E-016

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 8.43604E-015		
90% of values less than 2.45547E-007		
95% of values less than 1.22539E-006		
Minimum 0	Maximum 1.80454E-005	
Mean 2.88477E-007	Std. Dev. 1.59469E-006	Variance 2.54303E-012

Phase: Cell 11

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 5.35517E-015		
90% of values less than 2.34058E-006		
95% of values less than 1.07822E-005		
Minimum 0	Maximum 8.26006E-005	
Mean 1.86736E-006	Std. Dev. 8.03498E-006	Variance 6.45609E-011

Phase: Cell 11

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.06108E-019
95% of values less than 1.0558E-016

Minimum 0	Maximum 2.06176E-014	
Mean 3.75671E-016	Std. Dev. 2.11641E-015	Variance 4.47918E-030

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.43929E-013
95% of values less than 7.33453E-012

Minimum 0	Maximum 3.19551E-010	
Mean 4.00872E-012	Std. Dev. 2.73322E-011	Variance 7.47048E-022

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.95627E-013
95% of values less than 8.58649E-012

Minimum 0	Maximum 3.08E-010	
Mean 5.43746E-012	Std. Dev. 3.42782E-011	Variance 1.17499E-021

At infinity

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 3.59332E-017

Minimum 0	Maximum 5.48964E-013	
Mean 3.26911E-015	Std. Dev. 3.89026E-014	Variance 1.51341E-027

Phase: Cell 11

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

05% of values less than 232
10% of values less than 232
50% of values less than 256
90% of values less than 312
95% of values less than 312

Minimum 210	Maximum 380	
Mean 261.264	Std. Dev. 29.1406	Variance 849.175

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

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

Minimum 0	Maximum 20000	
Mean 12572.5	Std. Dev. 9193.71	Variance 8.45243E+007

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

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

Minimum 0	Maximum 20000	
Mean 14328.4	Std. Dev. 9037.24	Variance 8.16716E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 256
95% of values less than 282

Minimum 0	Maximum 1681	
Mean 107.284	Std. Dev. 202.728	Variance 41098.8

Phase: Cell 11

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 523.331
10% of values less than 523.331
50% of values less than 523.331
90% of values less than 1613.88
95% of values less than 2083

Minimum 523.331	Maximum 2477.55	
Mean 810.008	Std. Dev. 520.912	Variance 271349

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 11

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.05161
10% of values less than 1.05161
50% of values less than 1.05161
90% of values less than 1.11982
95% of values less than 1.15548

Minimum 1.05161	Maximum 1.22168	
Mean 1.06594	Std. Dev. 0.0361403	Variance 0.00130612

At 154 years

05% of values less than 1.48313
10% of values less than 1.48313
50% of values less than 1.48313
90% of values less than 1.48402
95% of values less than 1.69524

Minimum 1.48313	Maximum 4.02413	
Mean 1.52095	Std. Dev. 0.206348	Variance 0.0425797

At 1054 years

05% of values less than 1.48314
10% of values less than 1.48314
50% of values less than 1.48314
90% of values less than 1.48314
95% of values less than 1.48314

Minimum 1.48314	Maximum 1.49501	
Mean 1.48319	Std. Dev. 0.000837771	Variance 7.01861E-007

At infinity

05% of values less than 1.48314
10% of values less than 1.48314
50% of values less than 1.48314
90% of values less than 1.48314
95% of values less than 1.48314

Minimum 1.48314	Maximum 1.49501	
Mean 1.48319	Std. Dev. 0.000837771	Variance 7.01861E-007

Phase: Cell 11

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 11

Leakage through EBS [l/day]

At 29 years

05% of values less than 606.721
10% of values less than 1075.85
50% of values less than 2166.39
90% of values less than 2166.39
95% of values less than 2166.39

Minimum 212.174	Maximum 2166.39	
Mean 1879.72	Std. Dev. 520.912	Variance 271349

At 54 years

05% of values less than 1277.15
10% of values less than 1645.93
50% of values less than 2222.29
90% of values less than 2222.29
95% of values less than 2222.29

Minimum 520.61	Maximum 2222.29	
Mean 2093.67	Std. Dev. 339.274	Variance 115107

At 154 years

05% of values less than 2689.72
10% of values less than 2689.72
50% of values less than 2689.72
90% of values less than 2690.68
95% of values less than 2698.69

Minimum 2689.72	Maximum 2876.56	
Mean 2692.98	Std. Dev. 17.1796	Variance 295.137

At 1054 years

05% of values less than 2689.72
10% of values less than 2689.72
50% of values less than 2689.72
90% of values less than 2689.72
95% of values less than 2689.72

Minimum 2689.72	Maximum 2700.43	
Mean 2689.78	Std. Dev. 0.755311	Variance 0.570495

At infinity

05% of values less than 2689.72
10% of values less than 2689.72
50% of values less than 2689.72
90% of values less than 2689.72
95% of values less than 2689.72

Minimum 2689.72	Maximum 2700.43	
Mean 2689.78	Std. Dev. 0.755311	Variance 0.570495

Phase: Cell 11

Aquifer Flow [m³/year]

At 29 years

05% of values less than 39437.1
10% of values less than 46561.2
50% of values less than 121862
90% of values less than 339320
95% of values less than 381302

Minimum 0	Maximum 609479	
Mean 156930	Std. Dev. 112821	Variance 1.27286E+010

At 54 years

05% of values less than 39437.1
10% of values less than 46561.2
50% of values less than 121862
90% of values less than 339320
95% of values less than 381302

Minimum 0	Maximum 609479	
Mean 156930	Std. Dev. 112821	Variance 1.27286E+010

At 154 years

05% of values less than 39437.1
10% of values less than 46561.2
50% of values less than 121862
90% of values less than 339320
95% of values less than 381302

Minimum 0	Maximum 609479	
Mean 156930	Std. Dev. 112821	Variance 1.27286E+010

At 1054 years

05% of values less than 39437.1
10% of values less than 46561.2
50% of values less than 121862
90% of values less than 339320
95% of values less than 381302

Minimum 0	Maximum 609479	
Mean 156930	Std. Dev. 112821	Variance 1.27286E+010

At infinity

05% of values less than 39437.1
10% of values less than 46561.2
50% of values less than 121862
90% of values less than 339320
95% of values less than 381302

Minimum 0	Maximum 609479	
Mean 156930	Std. Dev. 112821	Variance 1.27286E+010

Phase: Cell 12

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 12.5326
10% of values less than 13.4857
50% of values less than 19.0997
90% of values less than 25.8558
95% of values less than 26.9122

Minimum 9.14528	Maximum 31.9011	
Mean 19.4126	Std. Dev. 4.5086	Variance 20.3274

At 54 years

05% of values less than 12.4262
10% of values less than 13.3712
50% of values less than 18.941
90% of values less than 25.6363
95% of values less than 26.6889

Minimum 9.0679	Maximum 31.6303	
Mean 19.248	Std. Dev. 4.47037	Variance 19.9842

At 154 years

05% of values less than 12.0123
10% of values less than 12.9257
50% of values less than 18.2945
90% of values less than 24.7823
95% of values less than 25.8128

Minimum 8.76547	Maximum 30.5766	
Mean 18.6067	Std. Dev. 4.32177	Variance 18.6777

At 1054 years

05% of values less than 8.71427
10% of values less than 9.37696
50% of values less than 13.2714
90% of values less than 17.9783
95% of values less than 18.7133

Minimum 6.3589	Maximum 22.1818	
Mean 13.4979	Std. Dev. 3.13495	Variance 9.82792

At infinity

05% of values less than 0.0101352
10% of values less than 0.010906
50% of values less than 0.0154355
90% of values less than 0.0209098
95% of values less than 0.0217647

Minimum 0.00739578	Maximum 0.0257987	
Mean 0.0156988	Std. Dev. 0.00364614	Variance 1.32943E-005

Phase: Cell 12

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 6.05316E-025
10% of values less than 3.96122E-022
50% of values less than 2.32181E-011
90% of values less than 0.000158715
95% of values less than 0.000690868

Minimum 3.02227E-030	Maximum 0.00432479	
Mean 0.00013931	Std. Dev. 0.000573601	Variance 3.29019E-007

At 54 years

05% of values less than 6.05316E-025
10% of values less than 3.96122E-022
50% of values less than 2.32181E-011
90% of values less than 0.000158698
95% of values less than 0.000689579

Minimum 3.02227E-030	Maximum 0.00430747	
Mean 0.000138888	Std. Dev. 0.000571503	Variance 3.26616E-007

At 154 years

05% of values less than 6.05316E-025
10% of values less than 3.96122E-022
50% of values less than 2.32181E-011
90% of values less than 0.000158634
95% of values less than 0.000684482

Minimum 3.02227E-030	Maximum 0.00423817	
Mean 0.00013722	Std. Dev. 0.000563205	Variance 3.17199E-007

At 1054 years

05% of values less than 6.05316E-025
10% of values less than 3.96122E-022
50% of values less than 2.32181E-011
90% of values less than 0.000157988
95% of values less than 0.000638025

Minimum 3.02227E-030	Maximum 0.00363736	
Mean 0.000122513	Std. Dev. 0.000490676	Variance 2.40763E-007

At infinity

05% of values less than 6.05316E-025
10% of values less than 3.96122E-022
50% of values less than 2.32181E-011
90% of values less than 0.000145056
95% of values less than 0.000145296

Minimum 3.02227E-030	Maximum 0.000145601	
Mean 1.98495E-005	Std. Dev. 4.65791E-005	Variance 2.16961E-009

Phase: Cell 12

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 2.40062E-024
10% of values less than 8.59467E-021
50% of values less than 2.05074E-010
90% of values less than 0.00780044
95% of values less than 0.0286871

Minimum 7.13548E-030	Maximum 0.326047	
Mean 0.00723886	Std. Dev. 0.0334962	Variance 0.001122

At 54 years

05% of values less than 2.40062E-024
10% of values less than 8.59467E-021
50% of values less than 2.05074E-010
90% of values less than 0.00779052
95% of values less than 0.0286147

Minimum 7.13548E-030	Maximum 0.324462	
Mean 0.00721149	Std. Dev. 0.0333465	Variance 0.00111199

At 154 years

05% of values less than 2.40062E-024
10% of values less than 8.59467E-021
50% of values less than 2.05074E-010
90% of values less than 0.00775126
95% of values less than 0.0283288

Minimum 7.13548E-030	Maximum 0.318244	
Mean 0.00710343	Std. Dev. 0.0327569	Variance 0.00107302

At 1054 years

05% of values less than 2.40062E-024
10% of values less than 8.59467E-021
50% of values less than 2.05074E-010
90% of values less than 0.00738891
95% of values less than 0.025758

Minimum 7.13548E-030	Maximum 0.264934	
Mean 0.00616409	Std. Dev. 0.0276827	Variance 0.000766333

At infinity

05% of values less than 2.40062E-024
10% of values less than 8.59467E-021
50% of values less than 2.05074E-010
90% of values less than 0.00269709
95% of values less than 0.00347684

Minimum 7.13548E-030	Maximum 0.00558467	
Mean 0.000531063	Std. Dev. 0.00123121	Variance 1.51587E-006

Phase: Cell 12

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 2.5184E-023
10% of values less than 8.1909E-021
50% of values less than 3.96408E-009
90% of values less than 0.0241249
95% of values less than 0.102261

Minimum 3.869E-027	Maximum 1.20446	
Mean 0.0307561	Std. Dev. 0.142451	Variance 0.0202922

At 54 years

05% of values less than 2.5184E-023
10% of values less than 8.1909E-021
50% of values less than 3.96408E-009
90% of values less than 0.0239902
95% of values less than 0.101626

Minimum 3.869E-027	Maximum 1.19571	
Mean 0.0305458	Std. Dev. 0.141438	Variance 0.0200047

At 154 years

05% of values less than 2.5184E-023
10% of values less than 8.1909E-021
50% of values less than 3.96408E-009
90% of values less than 0.0234622
95% of values less than 0.0991435

Minimum 3.869E-027	Maximum 1.16158	
Mean 0.0297215	Std. Dev. 0.137463	Variance 0.0188962

At 1054 years

05% of values less than 2.5184E-023
10% of values less than 8.1909E-021
50% of values less than 3.96408E-009
90% of values less than 0.0190022
95% of values less than 0.078435

Minimum 3.869E-027	Maximum 0.882866	
Mean 0.0229459	Std. Dev. 0.104987	Variance 0.0110223

At infinity

05% of values less than 2.5184E-023
10% of values less than 8.1909E-021
50% of values less than 3.96408E-009
90% of values less than 0.000224515
95% of values less than 0.00056553

Minimum 3.869E-027	Maximum 0.00273873	
Mean 0.000109341	Std. Dev. 0.000376752	Variance 1.41942E-007

Phase: Cell 12

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.00112591
10% of values less than 0.00261389
50% of values less than 0.0434053
90% of values less than 1.21748
95% of values less than 1.93647

Minimum 7.09549E-007	Maximum 4.21626	
Mean 0.368663	Std. Dev. 0.721918	Variance 0.521166

At 54 years

05% of values less than 0.106848
10% of values less than 0.137754
50% of values less than 0.604558
90% of values less than 2.907
95% of values less than 3.5927

Minimum 0.0106014	Maximum 6.99304	
Mean 1.09165	Std. Dev. 1.21448	Variance 1.47496

At 154 years

05% of values less than 0.669813
10% of values less than 0.888495
50% of values less than 2.06304
90% of values less than 5.12742
95% of values less than 6.0148

Minimum 0.321509	Maximum 9.99818	
Mean 2.60208	Std. Dev. 1.7501	Variance 3.06284

At 1054 years

05% of values less than 0.194243
10% of values less than 0.286922
50% of values less than 0.866212
90% of values less than 2.79996
95% of values less than 3.39326

Minimum 0.0629745	Maximum 5.93061	
Mean 1.23578	Std. Dev. 1.06815	Variance 1.14094

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 12

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 4.14039E-016	
Mean 2.0599E-018	Std. Dev. 2.92041E-017	Variance 8.52878E-034

At 154 years

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

Minimum 0	Maximum 8.54244E-010	
Mean 4.25511E-012	Std. Dev. 6.02534E-011	Variance 3.63047E-021

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.29017E-011
95% of values less than 1.04881E-008

Minimum 0	Maximum 3.33466E-005	
Mean 3.22702E-007	Std. Dev. 2.72646E-006	Variance 7.43357E-012

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 6.80355E-012
90% of values less than 3.65041E-005
95% of values less than 8.55659E-005

Minimum 0	Maximum 0.000174649	
Mean 1.06655E-005	Std. Dev. 3.10138E-005	Variance 9.61854E-010

Phase: Cell 12

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.54814E-016
95% of values less than 1.0261E-015

Minimum 0	Maximum 1.04134E-014	
Mean 2.7267E-016	Std. Dev. 1.22171E-015	Variance 1.49257E-030

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.44185E-013
90% of values less than 1.14766E-005
95% of values less than 6.82299E-005

Minimum 0	Maximum 0.00215124	
Mean 3.59512E-005	Std. Dev. 0.000223608	Variance 5.00004E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.05072E-010
90% of values less than 0.00322454
95% of values less than 0.00528846

Minimum 0	Maximum 0.0118216	
Mean 0.000752963	Std. Dev. 0.0019493	Variance 3.79977E-006

Phase: Cell 12

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 5.55639E-013
90% of values less than 1.74726E-005
95% of values less than 0.000125985

Minimum 0	Maximum 0.00209714	
Mean 4.79776E-005	Std. Dev. 0.000244419	Variance 5.97406E-008

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.89585E-012
90% of values less than 7.87416E-005
95% of values less than 0.00122045

Minimum 0	Maximum 0.0154043	
Mean 0.000352297	Std. Dev. 0.00180639	Variance 3.26306E-006

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 3.42822E-011
90% of values less than 0.000444168
95% of values less than 0.00637263

Minimum 0	Maximum 0.0487336	
Mean 0.00126435	Std. Dev. 0.0059512	Variance 3.54168E-005

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.35544E-011
90% of values less than 0.000233901
95% of values less than 0.00264993

Minimum 0	Maximum 0.021837	
Mean 0.000568351	Std. Dev. 0.0026591	Variance 7.07082E-006

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.35544E-011
95% of values less than 1.04958E-009

Minimum 0	Maximum 1.2046E-008	
Mean 2.81782E-010	Std. Dev. 1.4239E-009	Variance 2.02749E-018

Phase: Cell 12

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

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.92644E-011		
95% of values less than 3.3735E-010		
Minimum 0	Maximum 7.45743E-006	
Mean 4.12776E-008	Std. Dev. 5.27104E-007	Variance 2.77838E-013

At 54 years

05% of values less than 5.35067E-010		
10% of values less than 9.35522E-009		
50% of values less than 1.81699E-005		
90% of values less than 0.00389145		
95% of values less than 0.0130178		
Minimum 0	Maximum 0.211133	
Mean 0.00381021	Std. Dev. 0.0202869	Variance 0.000411559

At 154 years

05% of values less than 0.000716538		
10% of values less than 0.0016961		
50% of values less than 0.0220858		
90% of values less than 0.190339		
95% of values less than 0.267374		
Minimum 6.82772E-005	Maximum 0.946789	
Mean 0.0690946	Std. Dev. 0.124015	Variance 0.0153797

At 1054 years

05% of values less than 0.00119739		
10% of values less than 0.00229202		
50% of values less than 0.0227655		
90% of values less than 0.157461		
95% of values less than 0.232107		
Minimum 0.00027265	Maximum 0.753059	
Mean 0.0590917	Std. Dev. 0.0979066	Variance 0.0095857

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 9.42682E-016		
90% of values less than 2.31121E-014		
95% of values less than 5.96931E-014		
Minimum 0	Maximum 1.52059E-012	
Mean 1.73711E-014	Std. Dev. 1.09679E-013	Variance 1.20294E-026

Phase: Cell 12

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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 2.29679E-014

Minimum 0	Maximum 6.56993E-007	
Mean 7.06936E-009	Std. Dev. 6.11287E-008	Variance 3.73672E-015

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 6.80235E-012
90% of values less than 1.94057E-005
95% of values less than 6.99516E-005

Minimum 0	Maximum 0.000324009	
Mean 9.39878E-006	Std. Dev. 3.56095E-005	Variance 1.26804E-009

Phase: Cell 12

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.45777E-010
90% of values less than 0.00423111
95% of values less than 0.00909347

Minimum 0	Maximum 0.0442826	
Mean 0.00188097	Std. Dev. 0.00660449	Variance 4.36193E-005

Phase: Cell 12

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

At 29 years

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

Minimum 0	Maximum 1.01857E-014	
Mean 9.994E-017	Std. Dev. 9.65409E-016	Variance 9.32014E-031

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.6608E-010
95% of values less than 3.43418E-009

Minimum 0	Maximum 4.28513E-006	
Mean 2.86795E-008	Std. Dev. 3.08234E-007	Variance 9.5008E-014

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 6.43476E-016
90% of values less than 4.86305E-008
95% of values less than 7.24525E-007

Minimum 0	Maximum 0.000339179	
Mean 5.45681E-006	Std. Dev. 3.6991E-005	Variance 1.36834E-009

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.21166E-015
90% of values less than 4.06845E-008
95% of values less than 6.55884E-007

Minimum 0	Maximum 0.000299062	
Mean 4.88856E-006	Std. Dev. 3.28744E-005	Variance 1.08073E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.84135E-014
95% of values less than 1.33955E-012

Minimum 0	Maximum 1.1721E-010	
Mean 1.72177E-012	Std. Dev. 1.09865E-011	Variance 1.20703E-022

Phase: Cell 12

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

05% of values less than 210
10% of values less than 210
50% of values less than 232
90% of values less than 256
95% of values less than 256

Minimum 190	Maximum 312	
Mean 231.343	Std. Dev. 16.0414	Variance 257.327

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

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

Minimum 0	Maximum 20000	
Mean 13080.4	Std. Dev. 9351.94	Variance 8.74587E+007

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

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

Minimum 0	Maximum 20000	
Mean 15629.3	Std. Dev. 8187.65	Variance 6.70376E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 232
90% of values less than 1856
95% of values less than 12189

Minimum 0	Maximum 18114	
Mean 1533.99	Std. Dev. 4255.87	Variance 1.81124E+007

Phase: Cell 12

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

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.0134E-015
95% of values less than 2.17319E-014

Minimum 0	Maximum 1.70123E-009	
Mean 8.85507E-012	Std. Dev. 1.20014E-010	Variance 1.44034E-020

At 54 years

05% of values less than 2.8996E-013
10% of values less than 7.03127E-012
50% of values less than 3.12028E-008
90% of values less than 1.40646E-005
95% of values less than 3.01688E-005

Minimum 0	Maximum 0.000478418	
Mean 8.3716E-006	Std. Dev. 4.09344E-005	Variance 1.67563E-009

At 154 years

05% of values less than 2.56267E-006
10% of values less than 6.06204E-006
50% of values less than 0.00012693
90% of values less than 0.00180168
95% of values less than 0.00283678

Minimum 3.09898E-007	Maximum 0.0060303	
Mean 0.00055695	Std. Dev. 0.00102601	Variance 1.0527E-006

At 1054 years

05% of values less than 1.06323E-005
10% of values less than 1.64792E-005
50% of values less than 0.000257271
90% of values less than 0.00240289
95% of values less than 0.00331548

Minimum 1.6052E-006	Maximum 0.00732421	
Mean 0.000724231	Std. Dev. 0.00119991	Variance 1.43978E-006

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.08383E-017
90% of values less than 6.70294E-016
95% of values less than 3.16036E-015

Minimum 0	Maximum 1.90217E-014	
Mean 4.92997E-016	Std. Dev. 1.92258E-015	Variance 3.69631E-030

Phase: Cell 12

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 1.43242E-009	
Mean 8.28979E-012	Std. Dev. 1.01718E-010	Variance 1.03465E-020

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.29818E-014
90% of values less than 1.11857E-007
95% of values less than 5.0998E-007

Minimum 0	Maximum 1.23827E-005	
Mean 1.32396E-007	Std. Dev. 9.083E-007	Variance 8.25009E-013

Phase: Cell 12

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.27595E-013
90% of values less than 4.0172E-005
95% of values less than 0.000100856

Minimum 0	Maximum 0.000707672	
Mean 2.2674E-005	Std. Dev. 9.52456E-005	Variance 9.07172E-009

Phase: Cell 12

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 9.75143E-015		
95% of values less than 4.24255E-013		
Minimum 0	Maximum 1.34766E-009	
Mean 7.61607E-012	Std. Dev. 9.54641E-011	Variance 9.11339E-021

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.64594E-018		
90% of values less than 8.70727E-011		
95% of values less than 7.01294E-010		
Minimum 0	Maximum 6.01146E-007	
Mean 5.93789E-009	Std. Dev. 4.77412E-008	Variance 2.27923E-015

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.69489E-018		
90% of values less than 1.51425E-010		
95% of values less than 1.166E-009		
Minimum 0	Maximum 1.08744E-006	
Mean 9.8363E-009	Std. Dev. 8.28157E-008	Variance 6.85844E-015

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 4.27524E-017		
95% of values less than 3.70708E-015		
Minimum 0	Maximum 9.43092E-013	
Mean 7.39556E-015	Std. Dev. 6.84794E-014	Variance 4.68943E-027

Phase: Cell 12

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

05% of values less than 232
10% of values less than 232
50% of values less than 256
90% of values less than 282
95% of values less than 282

Minimum 210	Maximum 344	
Mean 256.806	Std. Dev. 18.3436	Variance 336.487

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

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

Minimum 0	Maximum 20000	
Mean 13191.2	Std. Dev. 9391.84	Variance 8.82066E+007

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

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

Minimum 0	Maximum 20000	
Mean 15712	Std. Dev. 8218.21	Variance 6.7539E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 256
90% of values less than 1024
95% of values less than 12189

Minimum 0	Maximum 20000	
Mean 1174.46	Std. Dev. 3917.07	Variance 1.53435E+007

Phase: Cell 12

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 1802.29
10% of values less than 1802.29
50% of values less than 1802.29
90% of values less than 2543.09
95% of values less than 2671.41

Minimum 1802.29	Maximum 2844.23	
Mean 1963.38	Std. Dev. 302.919	Variance 91759.8

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 12

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.2966
10% of values less than 1.2966
50% of values less than 1.2966
90% of values less than 1.30769
95% of values less than 1.38456

Minimum 1.2966	Maximum 1.42711	
Mean 1.30536	Std. Dev. 0.0279037	Variance 0.000778614

At 154 years

05% of values less than 4.04627
10% of values less than 4.04627
50% of values less than 4.04627
90% of values less than 4.04627
95% of values less than 4.05055

Minimum 4.04627	Maximum 6.07794	
Mean 4.07234	Std. Dev. 0.175118	Variance 0.0306665

At 1054 years

05% of values less than 4.0479
10% of values less than 4.0479
50% of values less than 4.0479
90% of values less than 4.0479
95% of values less than 4.0479

Minimum 4.0479	Maximum 4.0479	
Mean 4.0479	Std. Dev. 1.52208E-007	Variance 2.31672E-014

At infinity

05% of values less than 4.0479
10% of values less than 4.0479
50% of values less than 4.0479
90% of values less than 4.0479
95% of values less than 4.0479

Minimum 4.0479	Maximum 4.0479	
Mean 4.0479	Std. Dev. 1.52208E-007	Variance 2.31672E-014

Phase: Cell 12

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 12

Leakage through EBS [l/day]

At 29 years

05% of values less than 313.525
10% of values less than 441.838
50% of values less than 1182.64
90% of values less than 1182.64
95% of values less than 1182.64

Minimum 140.702	Maximum 1182.64	
Mean 1021.55	Std. Dev. 302.919	Variance 91759.8

At 54 years

05% of values less than 877.158
10% of values less than 1358.03
50% of values less than 1358.03
90% of values less than 1358.03
95% of values less than 1358.03

Minimum 521.947	Maximum 1364.59	
Mean 1310.58	Std. Dev. 164.63	Variance 27103.1

At 154 years

05% of values less than 2983.97
10% of values less than 2983.97
50% of values less than 2983.97
90% of values less than 2983.97
95% of values less than 2986.5

Minimum 2983.97	Maximum 3218.97	
Mean 2986.73	Std. Dev. 19.3667	Variance 375.068

At 1054 years

05% of values less than 2984.93
10% of values less than 2984.93
50% of values less than 2984.93
90% of values less than 2984.93
95% of values less than 2984.93

Minimum 2984.93	Maximum 2984.93	
Mean 2984.93	Std. Dev. 0.000123219	Variance -1.51829E-008

At infinity

05% of values less than 2984.93
10% of values less than 2984.93
50% of values less than 2984.93
90% of values less than 2984.93
95% of values less than 2984.93

Minimum 2984.93	Maximum 2984.93	
Mean 2984.93	Std. Dev. 0.000123219	Variance -1.51829E-008

Phase: Cell 12

Aquifer Flow [m³/year]

At 29 years

05% of values less than 35791.6
10% of values less than 42257.2
50% of values less than 110597
90% of values less than 307954
95% of values less than 346055

Minimum 0	Maximum 553140	
Mean 142424	Std. Dev. 102392	Variance 1.04842E+010

At 54 years

05% of values less than 35791.6
10% of values less than 42257.2
50% of values less than 110597
90% of values less than 307954
95% of values less than 346055

Minimum 0	Maximum 553140	
Mean 142424	Std. Dev. 102392	Variance 1.04842E+010

At 154 years

05% of values less than 35791.6
10% of values less than 42257.2
50% of values less than 110597
90% of values less than 307954
95% of values less than 346055

Minimum 0	Maximum 553140	
Mean 142424	Std. Dev. 102392	Variance 1.04842E+010

At 1054 years

05% of values less than 35791.6
10% of values less than 42257.2
50% of values less than 110597
90% of values less than 307954
95% of values less than 346055

Minimum 0	Maximum 553140	
Mean 142424	Std. Dev. 102392	Variance 1.04842E+010

At infinity

05% of values less than 35791.6
10% of values less than 42257.2
50% of values less than 110597
90% of values less than 307954
95% of values less than 346055

Minimum 0	Maximum 553140	
Mean 142424	Std. Dev. 102392	Variance 1.04842E+010

Phase: Cell 13

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 11.7964
10% of values less than 13.4542
50% of values less than 18.7016
90% of values less than 24.9159
95% of values less than 27.8904

Minimum 8.75591	Maximum 34.6391	
Mean 18.969	Std. Dev. 4.72118	Variance 22.2895

At 54 years

05% of values less than 11.695
10% of values less than 13.3352
50% of values less than 18.5362
90% of values less than 24.6956
95% of values less than 27.6438

Minimum 8.67849	Maximum 34.3328	
Mean 18.8019	Std. Dev. 4.67953	Variance 21.898

At 154 years

05% of values less than 11.2877
10% of values less than 12.8769
50% of values less than 17.8991
90% of values less than 23.8469
95% of values less than 26.6937

Minimum 8.38024	Maximum 33.1529	
Mean 18.1549	Std. Dev. 4.51852	Variance 20.417

At 1054 years

05% of values less than 8.06969
10% of values less than 9.20584
50% of values less than 12.7962
90% of values less than 17.0484
95% of values less than 19.0836

Minimum 5.99112	Maximum 23.7013	
Mean 12.9788	Std. Dev. 3.23025	Variance 10.4345

At infinity

05% of values less than 0.00689694
10% of values less than 0.00786798
50% of values less than 0.0109366
90% of values less than 0.0145708
95% of values less than 0.0163102

Minimum 0.00512044	Maximum 0.0202569	
Mean 0.0110926	Std. Dev. 0.00276081	Variance 7.62206E-006

Phase: Cell 13

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 1.03473E-025
10% of values less than 4.31833E-022
50% of values less than 2.80249E-012
90% of values less than 0.000197239
95% of values less than 0.001032

Minimum 3.35876E-030	Maximum 0.00728871	
Mean 0.000151402	Std. Dev. 0.000656527	Variance 4.31027E-007

At 54 years

05% of values less than 1.03473E-025
10% of values less than 4.31833E-022
50% of values less than 2.80249E-012
90% of values less than 0.000197164
95% of values less than 0.00102948

Minimum 3.35876E-030	Maximum 0.00725322	
Mean 0.000150911	Std. Dev. 0.000653763	Variance 4.27406E-007

At 154 years

05% of values less than 1.03473E-025
10% of values less than 4.31833E-022
50% of values less than 2.80249E-012
90% of values less than 0.000196866
95% of values less than 0.00101961

Minimum 3.35876E-030	Maximum 0.00711514	
Mean 0.000148979	Std. Dev. 0.000642952	Variance 4.13388E-007

At 1054 years

05% of values less than 1.03473E-025
10% of values less than 4.31833E-022
50% of values less than 2.80249E-012
90% of values less than 0.000194037
95% of values less than 0.000929627

Minimum 3.35876E-030	Maximum 0.00591673	
Mean 0.000131832	Std. Dev. 0.000548657	Variance 3.01025E-007

At infinity

05% of values less than 1.03473E-025
10% of values less than 4.31833E-022
50% of values less than 2.80249E-012
90% of values less than 0.000121854
95% of values less than 0.000132921

Minimum 3.35876E-030	Maximum 0.000143071	
Mean 1.78164E-005	Std. Dev. 4.23121E-005	Variance 1.79031E-009

Phase: Cell 13

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 6.4326E-025
10% of values less than 2.25402E-021
50% of values less than 1.11247E-011
90% of values less than 0.0045512
95% of values less than 0.0263738

Minimum 2.28552E-029	Maximum 0.241126	
Mean 0.00669589	Std. Dev. 0.0304937	Variance 0.000929868

At 54 years

05% of values less than 6.4326E-025
10% of values less than 2.25402E-021
50% of values less than 1.11247E-011
90% of values less than 0.00454764
95% of values less than 0.0263066

Minimum 2.28552E-029	Maximum 0.239979	
Mean 0.0066695	Std. Dev. 0.0303575	Variance 0.000921581

At 154 years

05% of values less than 6.4326E-025
10% of values less than 2.25402E-021
50% of values less than 1.11247E-011
90% of values less than 0.00453362
95% of values less than 0.026044

Minimum 2.28552E-029	Maximum 0.235513	
Mean 0.0065666	Std. Dev. 0.0298272	Variance 0.000889665

At 1054 years

05% of values less than 6.4326E-025
10% of values less than 2.25402E-021
50% of values less than 1.11247E-011
90% of values less than 0.00440133
95% of values less than 0.0236533

Minimum 2.28552E-029	Maximum 0.196665	
Mean 0.00566098	Std. Dev. 0.0251957	Variance 0.000634822

At infinity

05% of values less than 6.4326E-025
10% of values less than 2.25402E-021
50% of values less than 1.11247E-011
90% of values less than 0.00235952
95% of values less than 0.00311593

Minimum 2.28552E-029	Maximum 0.00442277	
Mean 0.000417836	Std. Dev. 0.00104277	Variance 1.08736E-006

Phase: Cell 13

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 2.05348E-024
10% of values less than 1.70796E-021
50% of values less than 1.43823E-009
90% of values less than 0.0261194
95% of values less than 0.20345

Minimum 4.62234E-029	Maximum 2.78385	
Mean 0.0413034	Std. Dev. 0.234453	Variance 0.054968

At 54 years

05% of values less than 2.05348E-024
10% of values less than 1.70796E-021
50% of values less than 1.43823E-009
90% of values less than 0.0259666
95% of values less than 0.202073

Minimum 4.62234E-029	Maximum 2.76176	
Mean 0.0409991	Std. Dev. 0.232626	Variance 0.0541149

At 154 years

05% of values less than 2.05348E-024
10% of values less than 1.70796E-021
50% of values less than 1.43823E-009
90% of values less than 0.0253733
95% of values less than 0.19674

Minimum 4.62234E-029	Maximum 2.67644	
Mean 0.0398218	Std. Dev. 0.225571	Variance 0.0508825

At 1054 years

05% of values less than 2.05348E-024
10% of values less than 1.70796E-021
50% of values less than 1.43823E-009
90% of values less than 0.0203258
95% of values less than 0.152202

Minimum 4.62234E-029	Maximum 1.98055	
Mean 0.0301183	Std. Dev. 0.167879	Variance 0.0281833

At infinity

05% of values less than 2.05348E-024
10% of values less than 1.70796E-021
50% of values less than 1.43823E-009
90% of values less than 0.000190629
95% of values less than 0.000685138

Minimum 4.62234E-029	Maximum 0.00349835	
Mean 9.70772E-005	Std. Dev. 0.000360925	Variance 1.30267E-007

Phase: Cell 13

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0.00011147
10% of values less than 0.000394678
50% of values less than 0.0206349
90% of values less than 0.845219
95% of values less than 1.32555

Minimum 8.66285E-008	Maximum 2.35087	
Mean 0.233296	Std. Dev. 0.462192	Variance 0.213622

At 54 years

05% of values less than 0.0782247
10% of values less than 0.13742
50% of values less than 0.655801
90% of values less than 3.12142
95% of values less than 3.69115

Minimum 0.0157685	Maximum 6.55024	
Mean 1.19185	Std. Dev. 1.2802	Variance 1.63891

At 154 years

05% of values less than 0.999025
10% of values less than 1.15993
50% of values less than 2.65217
90% of values less than 5.88575
95% of values less than 6.71894

Minimum 0.626607	Maximum 11.0442	
Mean 3.18034	Std. Dev. 1.9659	Variance 3.86476

At 1054 years

05% of values less than 0.243043
10% of values less than 0.390045
50% of values less than 1.17772
90% of values less than 3.1795
95% of values less than 3.85366

Minimum 0.144367	Maximum 6.48138	
Mean 1.5145	Std. Dev. 1.19365	Variance 1.42481

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 13

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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 2.61678E-012

Minimum 0	Maximum 5.58742E-007	
Mean 3.16035E-009	Std. Dev. 3.95375E-008	Variance 1.56322E-015

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.67861E-011
95% of values less than 1.05835E-007

Minimum 0	Maximum 0.000501527	
Mean 3.35921E-006	Std. Dev. 3.60586E-005	Variance 1.30022E-009

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.3312E-007
95% of values less than 3.86744E-005

Minimum 0	Maximum 0.00203767	
Mean 2.83203E-005	Std. Dev. 0.000181397	Variance 3.29049E-008

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.35904E-015
90% of values less than 2.15373E-005
95% of values less than 0.000333019

Minimum 0	Maximum 0.00197191	
Mean 5.53493E-005	Std. Dev. 0.000252722	Variance 6.38682E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.38781E-012
90% of values less than 8.16923E-005
95% of values less than 0.000156648

Minimum 0	Maximum 0.00021235	
Mean 1.87445E-005	Std. Dev. 4.86304E-005	Variance 2.36492E-009

Phase: Cell 13

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.76271E-016		
95% of values less than 1.7718E-015		
Minimum 0	Maximum 2.64461E-014	
Mean 4.13592E-016	Std. Dev. 2.30009E-015	Variance 5.2904E-030

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 9.96583E-014		
90% of values less than 1.67942E-005		
95% of values less than 0.000254702		
Minimum 0	Maximum 0.0160272	
Mean 0.000138173	Std. Dev. 0.00118485	Variance 1.40387E-006

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.11241E-011		
90% of values less than 0.00265768		
95% of values less than 0.00419962		
Minimum 0	Maximum 0.00853527	
Mean 0.000574997	Std. Dev. 0.00156634	Variance 2.45343E-006

Phase: Cell 13

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.65797E-013
90% of values less than 2.16131E-006
95% of values less than 4.44742E-005

Minimum 0	Maximum 0.0014283	
Mean 1.91746E-005	Std. Dev. 0.000122159	Variance 1.49228E-008

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.88832E-013
90% of values less than 4.43345E-005
95% of values less than 0.000617629

Minimum 0	Maximum 0.0261363	
Mean 0.000402418	Std. Dev. 0.00252524	Variance 6.37684E-006

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.4917E-011
90% of values less than 0.000655604
95% of values less than 0.00352204

Minimum 0	Maximum 0.125284	
Mean 0.00181345	Std. Dev. 0.0109341	Variance 0.000119554

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.95277E-011
90% of values less than 0.000143341
95% of values less than 0.00160803

Minimum 0	Maximum 0.0406834	
Mean 0.000743391	Std. Dev. 0.00428935	Variance 1.83985E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.81143E-011
95% of values less than 1.69518E-010

Minimum 0	Maximum 8.8936E-009	
Mean 9.99982E-011	Std. Dev. 6.88039E-010	Variance 4.73398E-019

Phase: Cell 13

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

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.29801E-014		
95% of values less than 6.76032E-012		
Minimum 0	Maximum 3.2437E-009	
Mean 3.03576E-011	Std. Dev. 2.71532E-010	Variance 7.37298E-020

At 54 years

05% of values less than 6.19935E-009		
10% of values less than 5.45117E-008		
50% of values less than 0.000121615		
90% of values less than 0.013349		
95% of values less than 0.0507628		
Minimum 1.08515E-014	Maximum 0.252467	
Mean 0.0086865	Std. Dev. 0.0324076	Variance 0.00105026

At 154 years

05% of values less than 0.00312228		
10% of values less than 0.00657951		
50% of values less than 0.0809682		
90% of values less than 0.439311		
95% of values less than 0.571804		
Minimum 0.000318199	Maximum 2.07009	
Mean 0.174948	Std. Dev. 0.27351	Variance 0.0748079

At 1054 years

05% of values less than 0.00382775		
10% of values less than 0.00710423		
50% of values less than 0.0715404		
90% of values less than 0.37553		
95% of values less than 0.461185		
Minimum 0.000811194	Maximum 1.6256	
Mean 0.14309	Std. Dev. 0.211108	Variance 0.0445664

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.05327E-015		
90% of values less than 5.67112E-014		
95% of values less than 1.83964E-013		
Minimum 0	Maximum 3.72796E-012	
Mean 6.35028E-014	Std. Dev. 3.27817E-013	Variance 1.07464E-025

Phase: Cell 13

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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 5.23377E-016

Minimum 0	Maximum 9.74243E-009	
Mean 4.92434E-011	Std. Dev. 6.87155E-010	Variance 4.72182E-019

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.61354E-008
95% of values less than 1.96245E-006

Minimum 0	Maximum 0.000365716	
Mean 5.87868E-006	Std. Dev. 3.96865E-005	Variance 1.57502E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 6.62149E-013
90% of values less than 3.0929E-005
95% of values less than 0.000211881

Minimum 0	Maximum 0.000915534	
Mean 3.23322E-005	Std. Dev. 0.000120468	Variance 1.45125E-008

Phase: Cell 13

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 2.1084E-016	
Mean 1.04895E-018	Std. Dev. 1.48715E-017	Variance 2.21161E-034

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.08076E-011		
90% of values less than 0.00296094		
95% of values less than 0.0115162		
Minimum 0	Maximum 0.0577577	
Mean 0.00178629	Std. Dev. 0.00687599	Variance 4.72792E-005

Phase: Cell 13

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.59236E-010
95% of values less than 6.76049E-009

Minimum 0	Maximum 3.04322E-006	
Mean 3.65501E-008	Std. Dev. 2.99597E-007	Variance 8.97586E-014

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.93056E-014
90% of values less than 1.43507E-007
95% of values less than 3.13806E-006

Minimum 0	Maximum 0.000480339	
Mean 5.37912E-006	Std. Dev. 4.14008E-005	Variance 1.71403E-009

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.62517E-014
90% of values less than 1.8072E-007
95% of values less than 2.82442E-006

Minimum 0	Maximum 0.000407996	
Mean 4.54018E-006	Std. Dev. 3.50819E-005	Variance 1.23074E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.28605E-014
95% of values less than 5.99758E-013

Minimum 0	Maximum 2.00935E-010	
Mean 2.74735E-012	Std. Dev. 2.11494E-011	Variance 4.47299E-022

Phase: Cell 13

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

05% of values less than 210
10% of values less than 210
50% of values less than 232
90% of values less than 256
95% of values less than 256

Minimum 210	Maximum 312	
Mean 231.821	Std. Dev. 14.5027	Variance 210.328

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

05% of values less than 0
10% of values less than 0
50% of values less than 16406
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 11922	Std. Dev. 8952.14	Variance 8.01408E+007

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

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

Minimum 0	Maximum 20000	
Mean 15447.2	Std. Dev. 8155.18	Variance 6.6507E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 232
90% of values less than 12189
95% of values less than 14859

Minimum 0	Maximum 18114	
Mean 2225.56	Std. Dev. 4952.05	Variance 2.45228E+007

Phase: Cell 13

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

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.87941E-017		
95% of values less than 3.20305E-015		
Minimum 0	Maximum 2.40598E-012	
Mean 2.49348E-014	Std. Dev. 2.11566E-013	Variance 4.47602E-026

At 54 years

05% of values less than 4.12274E-012		
10% of values less than 6.06246E-011		
50% of values less than 1.82175E-007		
90% of values less than 3.04358E-005		
95% of values less than 0.000108907		
Minimum 5.85913E-018	Maximum 0.000922915	
Mean 2.18717E-005	Std. Dev. 9.4153E-005	Variance 8.86478E-009

At 154 years

05% of values less than 9.51298E-006		
10% of values less than 2.22448E-005		
50% of values less than 0.000441689		
90% of values less than 0.00359821		
95% of values less than 0.00660544		
Minimum 5.16898E-007	Maximum 0.0367839	
Mean 0.00158388	Std. Dev. 0.00361842	Variance 1.3093E-005

At 1054 years

05% of values less than 2.71643E-005		
10% of values less than 4.75175E-005		
50% of values less than 0.000651639		
90% of values less than 0.00447516		
95% of values less than 0.00681871		
Minimum 2.48756E-006	Maximum 0.0349453	
Mean 0.00176906	Std. Dev. 0.00355838	Variance 1.2662E-005

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 6.01185E-017		
90% of values less than 2.01748E-015		
95% of values less than 1.04681E-014		
Minimum 0	Maximum 2.65214E-013	
Mean 4.75836E-015	Std. Dev. 2.47373E-014	Variance 6.11936E-028

Phase: Cell 13

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 1.57096E-012	
Mean 7.92448E-015	Std. Dev. 1.10809E-013	Variance 1.22787E-026

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.51596E-011
95% of values less than 1.42212E-009

Minimum 0	Maximum 6.30455E-006	
Mean 5.80385E-008	Std. Dev. 5.14129E-007	Variance 2.64328E-013

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 5.01275E-015
90% of values less than 3.09905E-007
95% of values less than 1.13688E-006

Minimum 0	Maximum 4.96598E-005	
Mean 5.18261E-007	Std. Dev. 3.70887E-006	Variance 1.37557E-011

Phase: Cell 13

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 5.1123E-014		
90% of values less than 2.32746E-005		
95% of values less than 7.9639E-005		
Minimum 0	Maximum 0.00102848	
Mean 2.0574E-005	Std. Dev. 0.000106058	Variance 1.12483E-008

Phase: Cell 13

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.00941E-013		
95% of values less than 5.77981E-012		
Minimum 0	Maximum 2.495E-009	
Mean 2.80516E-011	Std. Dev. 2.34456E-010	Variance 5.49695E-020

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 5.86847E-017		
90% of values less than 9.92185E-010		
95% of values less than 8.33274E-009		
Minimum 0	Maximum 1.61752E-006	
Mean 1.55213E-008	Std. Dev. 1.27116E-007	Variance 1.61585E-014

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.0502E-016		
90% of values less than 1.80147E-009		
95% of values less than 1.49452E-008		
Minimum 0	Maximum 2.19872E-006	
Mean 2.06737E-008	Std. Dev. 1.69997E-007	Variance 2.88989E-014

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.40082E-016		
95% of values less than 6.26887E-015		
Minimum 0	Maximum 1.66977E-012	
Mean 1.62887E-014	Std. Dev. 1.34714E-013	Variance 1.81479E-026

Phase: Cell 13

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

05% of values less than 232
10% of values less than 256
50% of values less than 256
90% of values less than 282
95% of values less than 282

Minimum 210	Maximum 344	
Mean 258.726	Std. Dev. 14.7949	Variance 218.89

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

05% of values less than 0
10% of values less than 0
50% of values less than 18114
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 12067	Std. Dev. 9063.04	Variance 8.21386E+007

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

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

Minimum 0	Maximum 20000	
Mean 15354.3	Std. Dev. 8304	Variance 6.89564E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 256
90% of values less than 11039
95% of values less than 13458

Minimum 0	Maximum 20000	
Mean 2232.96	Std. Dev. 5081.29	Variance 2.58195E+007

Phase: Cell 13

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 1552.92
10% of values less than 1552.92
50% of values less than 1552.92
90% of values less than 2039.36
95% of values less than 2181.76

Minimum 1552.92	Maximum 2299.61	
Mean 1672.3	Std. Dev. 215.742	Variance 46544.5

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 13

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.3523
10% of values less than 1.3523
50% of values less than 1.3523
90% of values less than 1.45866
95% of values less than 1.48947

Minimum 1.3523	Maximum 1.51485	
Mean 1.3784	Std. Dev. 0.0470957	Variance 0.002218

At 154 years

05% of values less than 4.74858
10% of values less than 4.74858
50% of values less than 4.74858
90% of values less than 4.74924
95% of values less than 4.77872

Minimum 4.74858	Maximum 6.66598	
Mean 4.77462	Std. Dev. 0.170521	Variance 0.0290773

At 1054 years

05% of values less than 4.75389
10% of values less than 4.75389
50% of values less than 4.75389
90% of values less than 4.75389
95% of values less than 4.75389

Minimum 4.75389	Maximum 4.75389	
Mean 4.75389	Std. Dev. 4.33859E-007	Variance -1.88234E-013

At infinity

05% of values less than 4.75389
10% of values less than 4.75389
50% of values less than 4.75389
90% of values less than 4.75389
95% of values less than 4.75389

Minimum 4.75389	Maximum 4.75389	
Mean 4.75389	Std. Dev. 4.33859E-007	Variance -1.88234E-013

Phase: Cell 13

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 13

Leakage through EBS [l/day]

At 29 years

05% of values less than 198.527
10% of values less than 340.931
50% of values less than 827.366
90% of values less than 827.366
95% of values less than 827.366

Minimum 80.6807	Maximum 827.366	
Mean 707.986	Std. Dev. 215.742	Variance 46544.5

At 54 years

05% of values less than 296.035
10% of values less than 497.661
50% of values less than 973.108
90% of values less than 973.108
95% of values less than 973.108

Minimum 122.403	Maximum 982.005	
Mean 861.139	Std. Dev. 225.433	Variance 50820

At 154 years

05% of values less than 2378.09
10% of values less than 2378.09
50% of values less than 2378.09
90% of values less than 2378.36
95% of values less than 2390.56

Minimum 2378.09	Maximum 2777.57	
Mean 2384.18	Std. Dev. 38.3401	Variance 1469.97

At 1054 years

05% of values less than 2380.29
10% of values less than 2380.29
50% of values less than 2380.29
90% of values less than 2380.29
95% of values less than 2380.29

Minimum 2380.29	Maximum 2380.29	
Mean 2380.29	Std. Dev. 0.000240198	Variance -5.76949E-008

At infinity

05% of values less than 2380.29
10% of values less than 2380.29
50% of values less than 2380.29
90% of values less than 2380.29
95% of values less than 2380.29

Minimum 2380.29	Maximum 2380.29	
Mean 2380.29	Std. Dev. 0.000240198	Variance -5.76949E-008

Phase: Cell 13

Aquifer Flow [m³/year]

At 29 years

05% of values less than 31152
10% of values less than 36779.4
50% of values less than 96260.4
90% of values less than 268034
95% of values less than 301196

Minimum 0	Maximum 481437	
Mean 123962	Std. Dev. 89119.4	Variance 7.94226E+009

At 54 years

05% of values less than 31152
10% of values less than 36779.4
50% of values less than 96260.4
90% of values less than 268034
95% of values less than 301196

Minimum 0	Maximum 481437	
Mean 123962	Std. Dev. 89119.4	Variance 7.94226E+009

At 154 years

05% of values less than 31152
10% of values less than 36779.4
50% of values less than 96260.4
90% of values less than 268034
95% of values less than 301196

Minimum 0	Maximum 481437	
Mean 123962	Std. Dev. 89119.4	Variance 7.94226E+009

At 1054 years

05% of values less than 31152
10% of values less than 36779.4
50% of values less than 96260.4
90% of values less than 268034
95% of values less than 301196

Minimum 0	Maximum 481437	
Mean 123962	Std. Dev. 89119.4	Variance 7.94226E+009

At infinity

05% of values less than 31152
10% of values less than 36779.4
50% of values less than 96260.4
90% of values less than 268034
95% of values less than 301196

Minimum 0	Maximum 481437	
Mean 123962	Std. Dev. 89119.4	Variance 7.94226E+009

Phase: Cell 14a

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 12.2383
10% of values less than 13.7877
50% of values less than 18.8474
90% of values less than 24.6977
95% of values less than 25.6194

Minimum 9.11756	Maximum 33.1912	
Mean 19.0781	Std. Dev. 4.37137	Variance 19.1089

At 54 years

05% of values less than 12.1205
10% of values less than 13.6554
50% of values less than 18.6675
90% of values less than 24.4599
95% of values less than 25.3736

Minimum 9.02977	Maximum 32.8716	
Mean 18.8953	Std. Dev. 4.32938	Variance 18.7436

At 154 years

05% of values less than 11.6602
10% of values less than 13.1362
50% of values less than 17.9566
90% of values less than 23.531
95% of values less than 24.4088

Minimum 8.68685	Maximum 31.6233	
Mean 18.1771	Std. Dev. 4.16532	Variance 17.3499

At 1054 years

05% of values less than 8.1274
10% of values less than 9.15623
50% of values less than 12.5161
90% of values less than 16.4016
95% of values less than 17.0134

Minimum 6.05492	Maximum 22.0421	
Mean 12.6692	Std. Dev. 2.90294	Variance 8.42709

At infinity

05% of values less than 0.00407473
10% of values less than 0.00459054
50% of values less than 0.00627505
90% of values less than 0.00822306
95% of values less than 0.0085298

Minimum 0.00303567	Maximum 0.011051	
Mean 0.00635179	Std. Dev. 0.00145541	Variance 2.11822E-006

Phase: Cell 14a

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 1.16402E-023
10% of values less than 8.42546E-021
50% of values less than 6.95775E-011
90% of values less than 0.000131601
95% of values less than 0.00085888

Minimum 1.12812E-029	Maximum 0.00269636	
Mean 0.000114441	Std. Dev. 0.000413069	Variance 1.70626E-007

At 54 years

05% of values less than 1.16402E-023
10% of values less than 8.42546E-021
50% of values less than 6.95775E-011
90% of values less than 0.000131601
95% of values less than 0.00085683

Minimum 1.12812E-029	Maximum 0.0026857	
Mean 0.0001141	Std. Dev. 0.000411649	Variance 1.69455E-007

At 154 years

05% of values less than 1.16402E-023
10% of values less than 8.42546E-021
50% of values less than 6.95775E-011
90% of values less than 0.000131601
95% of values less than 0.000848581

Minimum 1.12812E-029	Maximum 0.00264346	
Mean 0.000112734	Std. Dev. 0.000405963	Variance 1.64806E-007

At 1054 years

05% of values less than 1.16402E-023
10% of values less than 8.42546E-021
50% of values less than 6.95775E-011
90% of values less than 0.000131601
95% of values less than 0.000775598

Minimum 1.12812E-029	Maximum 0.00228031	
Mean 0.000100873	Std. Dev. 0.000356889	Variance 1.2737E-007

At infinity

05% of values less than 1.16402E-023
10% of values less than 8.42546E-021
50% of values less than 6.95775E-011
90% of values less than 0.000104002
95% of values less than 0.000116801

Minimum 1.12812E-029	Maximum 0.000144714	
Mean 1.56237E-005	Std. Dev. 3.78933E-005	Variance 1.4359E-009

Phase: Cell 14a

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 1.31883E-023
10% of values less than 2.40486E-020
50% of values less than 4.77198E-010
90% of values less than 0.00415618
95% of values less than 0.045239

Minimum 8.75167E-029	Maximum 0.420463	
Mean 0.00844577	Std. Dev. 0.0434899	Variance 0.00189138

At 54 years

05% of values less than 1.31883E-023
10% of values less than 2.40486E-020
50% of values less than 4.77198E-010
90% of values less than 0.00415304
95% of values less than 0.0450872

Minimum 8.75167E-029	Maximum 0.418032	
Mean 0.00840606	Std. Dev. 0.0432547	Variance 0.00187097

At 154 years

05% of values less than 1.31883E-023
10% of values less than 2.40486E-020
50% of values less than 4.77198E-010
90% of values less than 0.00414054
95% of values less than 0.0444847

Minimum 8.75167E-029	Maximum 0.408445	
Mean 0.00824842	Std. Dev. 0.0423242	Variance 0.00179134

At 1054 years

05% of values less than 1.31883E-023
10% of values less than 2.40486E-020
50% of values less than 4.77198E-010
90% of values less than 0.00402577
95% of values less than 0.0392411

Minimum 8.75167E-029	Maximum 0.329002	
Mean 0.00692206	Std. Dev. 0.0345789	Variance 0.0011957

At infinity

05% of values less than 1.31883E-023
10% of values less than 2.40486E-020
50% of values less than 4.77198E-010
90% of values less than 0.00222766
95% of values less than 0.00279955

Minimum 8.75167E-029	Maximum 0.00346547	
Mean 0.000344166	Std. Dev. 0.000875101	Variance 7.65803E-007

Phase: Cell 14a

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 2.40881E-022
10% of values less than 5.17894E-020
50% of values less than 4.74596E-010
90% of values less than 0.0528016
95% of values less than 0.302565

Minimum 7.80021E-030	Maximum 1.68441	
Mean 0.0500098	Std. Dev. 0.202662	Variance 0.0410718

At 54 years

05% of values less than 2.40881E-022
10% of values less than 5.17894E-020
50% of values less than 4.74596E-010
90% of values less than 0.0524541
95% of values less than 0.300277

Minimum 7.80021E-030	Maximum 1.67027	
Mean 0.0496142	Std. Dev. 0.201003	Variance 0.0404021

At 154 years

05% of values less than 2.40881E-022
10% of values less than 5.17894E-020
50% of values less than 4.74596E-010
90% of values less than 0.0510492
95% of values less than 0.291294

Minimum 7.80021E-030	Maximum 1.61487	
Mean 0.0480595	Std. Dev. 0.194494	Variance 0.0378281

At 1054 years

05% of values less than 2.40881E-022
10% of values less than 5.17894E-020
50% of values less than 4.74596E-010
90% of values less than 0.0397066
95% of values less than 0.219464

Minimum 7.80021E-030	Maximum 1.17911	
Mean 0.0357281	Std. Dev. 0.143123	Variance 0.0204841

At infinity

05% of values less than 2.40881E-022
10% of values less than 5.17894E-020
50% of values less than 4.74596E-010
90% of values less than 0.000200279
95% of values less than 0.000565878

Minimum 7.80021E-030	Maximum 0.00157152	
Mean 7.70018E-005	Std. Dev. 0.00023716	Variance 5.62447E-008

Phase: Cell 14a

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 8.87278E-007		
10% of values less than 1.08309E-005		
50% of values less than 0.00268646		
90% of values less than 0.329208		
95% of values less than 0.609029		
Minimum 3.62719E-013	Maximum 1.25806	
Mean 0.0919895	Std. Dev. 0.217971	Variance 0.0475116

At 54 years

05% of values less than 0.0500512		
10% of values less than 0.102408		
50% of values less than 0.727503		
90% of values less than 2.74899		
95% of values less than 3.55711		
Minimum 0.000988309	Maximum 6.21783	
Mean 1.13896	Std. Dev. 1.19956	Variance 1.43895

At 154 years

05% of values less than 0.337141		
10% of values less than 0.510874		
50% of values less than 1.70172		
90% of values less than 4.36966		
95% of values less than 5.03883		
Minimum 0.157767	Maximum 8.55436	
Mean 2.10726	Std. Dev. 1.5421	Variance 2.37806

At 1054 years

05% of values less than 0.0520798		
10% of values less than 0.12304		
50% of values less than 0.631228		
90% of values less than 2.26649		
95% of values less than 2.70555		
Minimum 0.00289041	Maximum 4.96273	
Mean 0.951396	Std. Dev. 0.900124	Variance 0.810223

At infinity

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 14a

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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 5.09564E-016

Minimum 0	Maximum 1.33789E-008	
Mean 6.6697E-011	Std. Dev. 9.43664E-010	Variance 8.90502E-019

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.64016E-011
95% of values less than 2.46379E-007

Minimum 0	Maximum 0.000347146	
Mean 1.91706E-006	Std. Dev. 2.45202E-005	Variance 6.01241E-010

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.74248E-007
95% of values less than 3.10958E-005

Minimum 0	Maximum 0.00203822	
Mean 3.36236E-005	Std. Dev. 0.000205912	Variance 4.23998E-008

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.18705E-015
90% of values less than 1.53532E-005
95% of values less than 0.000330576

Minimum 0	Maximum 0.00232997	
Mean 6.4556E-005	Std. Dev. 0.000292728	Variance 8.56899E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 6.39452E-011
90% of values less than 8.89419E-005
95% of values less than 0.000140778

Minimum 0	Maximum 0.000184777	
Mean 1.64215E-005	Std. Dev. 4.29903E-005	Variance 1.84817E-009

Phase: Cell 14a

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 5.09166E-017		
95% of values less than 6.52673E-016		
Minimum 0	Maximum 9.1326E-015	
Mean 1.54113E-016	Std. Dev. 8.38914E-016	Variance 7.03776E-031

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.75101E-013		
90% of values less than 8.80699E-007		
95% of values less than 1.22073E-005		
Minimum 0	Maximum 0.000482831	
Mean 4.31739E-006	Std. Dev. 3.50718E-005	Variance 1.23003E-009

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.77099E-010		
90% of values less than 0.00259342		
95% of values less than 0.00473555		
Minimum 0	Maximum 0.0101924	
Mean 0.000558687	Std. Dev. 0.00162795	Variance 2.65023E-006

Phase: Cell 14a

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 9.02955E-015
90% of values less than 6.512E-007
95% of values less than 1.14894E-005

Minimum 0	Maximum 0.000263417	
Mean 3.51378E-006	Std. Dev. 2.20349E-005	Variance 4.85538E-010

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.49275E-013
90% of values less than 4.16327E-005
95% of values less than 0.00136882

Minimum 0	Maximum 0.057463	
Mean 0.00072768	Std. Dev. 0.00484604	Variance 2.34841E-005

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.22841E-012
90% of values less than 0.000168277
95% of values less than 0.00351353

Minimum 0	Maximum 0.115403	
Mean 0.00154201	Std. Dev. 0.00975721	Variance 9.52031E-005

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 5.46405E-013
90% of values less than 7.95418E-005
95% of values less than 0.000905734

Minimum 0	Maximum 0.0473887	
Mean 0.000659917	Std. Dev. 0.00417037	Variance 1.7392E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.27701E-011
95% of values less than 1.21263E-010

Minimum 0	Maximum 1.6653E-005	
Mean 8.29389E-008	Std. Dev. 1.17461E-006	Variance 1.3797E-012

Phase: Cell 14a

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 2.69012E-014
10% of values less than 7.8154E-013
50% of values less than 9.96137E-008
90% of values less than 0.000307835
95% of values less than 0.00154801

Minimum 0	Maximum 0.00694113	
Mean 0.00023398	Std. Dev. 0.000887494	Variance 7.87645E-007

At 154 years

05% of values less than 0.000114668
10% of values less than 0.000283307
50% of values less than 0.00808437
90% of values less than 0.0959902
95% of values less than 0.155369

Minimum 4.05423E-006	Maximum 0.379175	
Mean 0.0332584	Std. Dev. 0.0605035	Variance 0.00366067

At 1054 years

05% of values less than 0.000180534
10% of values less than 0.000350773
50% of values less than 0.00804159
90% of values less than 0.0743425
95% of values less than 0.122358

Minimum 2.48507E-005	Maximum 0.429965	
Mean 0.0276026	Std. Dev. 0.0512353	Variance 0.00262505

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.8171E-016
90% of values less than 1.26435E-014
95% of values less than 3.14802E-014

Minimum 0	Maximum 5.61056E-005	
Mean 2.79133E-007	Std. Dev. 3.95738E-006	Variance 1.56609E-011

Phase: Cell 14a

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 1.16628E-011	
Mean 5.80237E-014	Std. Dev. 8.22628E-013	Variance 6.76716E-025

At 154 years

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 1.26077E-015

Minimum 0	Maximum 0.000387495	
Mean 1.92792E-006	Std. Dev. 2.73318E-005	Variance 7.47027E-010

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.43551E-009
95% of values less than 2.78047E-006

Minimum 0	Maximum 0.00203251	
Mean 3.03345E-005	Std. Dev. 0.000207328	Variance 4.29848E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 5.33152E-012
90% of values less than 3.91477E-005
95% of values less than 0.000204101

Minimum 0	Maximum 0.000457046	
Mean 2.3109E-005	Std. Dev. 7.83837E-005	Variance 6.144E-009

Phase: Cell 14a

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.34766E-010
90% of values less than 0.00171191
95% of values less than 0.00806861

Minimum 0	Maximum 0.0609518	
Mean 0.00149158	Std. Dev. 0.00655145	Variance 4.29215E-005

Phase: Cell 14a

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.22699E-012		
95% of values less than 2.28825E-011		
Minimum 0	Maximum 5.70511E-008	
Mean 4.85469E-010	Std. Dev. 4.76095E-009	Variance 2.26666E-017

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 7.1084E-017		
90% of values less than 4.27056E-009		
95% of values less than 3.75419E-008		
Minimum 0	Maximum 7.72191E-005	
Mean 7.24111E-007	Std. Dev. 6.09392E-006	Variance 3.71358E-011

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 9.20236E-017		
90% of values less than 2.97108E-009		
95% of values less than 2.84153E-008		
Minimum 0	Maximum 5.34536E-005	
Mean 5.86828E-007	Std. Dev. 4.43883E-006	Variance 1.97032E-011

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.74219E-015		
95% of values less than 3.42056E-014		
Minimum 0	Maximum 4.61977E-007	
Mean 2.2987E-009	Std. Dev. 3.25853E-008	Variance 1.0618E-015

Phase: Cell 14a

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

05% of values less than 210
10% of values less than 210
50% of values less than 232
90% of values less than 256
95% of values less than 256

Minimum 190	Maximum 344	
Mean 228.239	Std. Dev. 21.9532	Variance 481.943

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

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

Minimum 0	Maximum 20000	
Mean 12811.4	Std. Dev. 8850.32	Variance 7.83281E+007

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

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

Minimum 0	Maximum 20000	
Mean 15413.5	Std. Dev. 8418.83	Variance 7.08766E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 210
90% of values less than 1681
95% of values less than 12189

Minimum 0	Maximum 18114	
Mean 1266.19	Std. Dev. 3805.45	Variance 1.44815E+007

Phase: Cell 14a

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 9.29048E-018		
10% of values less than 1.17728E-015		
50% of values less than 9.47151E-011		
90% of values less than 5.42114E-007		
95% of values less than 3.25184E-006		
Minimum 0	Maximum 1.38702E-005	
Mean 4.51643E-007	Std. Dev. 1.81298E-006	Variance 3.28691E-012

At 154 years

05% of values less than 3.89227E-007		
10% of values less than 8.5474E-007		
50% of values less than 2.89874E-005		
90% of values less than 0.000709602		
95% of values less than 0.00117318		
Minimum 8.28043E-009	Maximum 0.00259952	
Mean 0.000213802	Std. Dev. 0.000422091	Variance 1.78161E-007

At 1054 years

05% of values less than 1.16372E-006		
10% of values less than 2.55225E-006		
50% of values less than 5.27744E-005		
90% of values less than 0.000770117		
95% of values less than 0.00113807		
Minimum 1.31655E-007	Maximum 0.00301884	
Mean 0.000248961	Std. Dev. 0.000464902	Variance 2.16134E-007

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 2.41877E-018		
90% of values less than 2.69621E-016		
95% of values less than 1.79969E-015		
Minimum 0	Maximum 4.36545E-007	
Mean 2.17187E-009	Std. Dev. 3.07915E-008	Variance 9.48115E-016

Phase: Cell 14a

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 4.78728E-014	
Mean 2.38181E-016	Std. Dev. 3.37669E-015	Variance 1.1402E-029

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.13748E-014
95% of values less than 1.30781E-009

Minimum 0	Maximum 4.06846E-005	
Mean 2.30662E-007	Std. Dev. 2.87689E-006	Variance 8.27652E-012

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.02782E-014
90% of values less than 1.94865E-007
95% of values less than 9.74279E-007

Minimum 0	Maximum 9.69573E-006	
Mean 2.17645E-007	Std. Dev. 1.00927E-006	Variance 1.01862E-012

Phase: Cell 14a

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 6.17814E-013
90% of values less than 6.02762E-006
95% of values less than 4.50289E-005

Minimum 0	Maximum 0.000804841	
Mean 1.13047E-005	Std. Dev. 6.84757E-005	Variance 4.68893E-009

Phase: Cell 14a

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.01828E-018
95% of values less than 1.33357E-016

Minimum 0	Maximum 2.2426E-013	
Mean 2.05268E-015	Std. Dev. 1.82369E-014	Variance 3.32585E-028

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.66432E-012
95% of values less than 2.32384E-011

Minimum 0	Maximum 1.81046E-007	
Mean 1.10427E-009	Std. Dev. 1.28823E-008	Variance 1.65955E-016

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.23807E-012
95% of values less than 2.75439E-011

Minimum 0	Maximum 2.62881E-007	
Mean 1.79636E-009	Std. Dev. 1.91999E-008	Variance 3.68636E-016

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.05409E-018
95% of values less than 8.12756E-017

Minimum 0	Maximum 3.73291E-010	
Mean 1.8578E-012	Std. Dev. 2.63299E-011	Variance 6.93264E-022

Phase: Cell 14a

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

05% of values less than 232
10% of values less than 232
50% of values less than 256
90% of values less than 282
95% of values less than 282

Minimum 210	Maximum 380	
Mean 251.781	Std. Dev. 22.496	Variance 506.072

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

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

Minimum 0	Maximum 20000	
Mean 12619.9	Std. Dev. 9023	Variance 8.14145E+007

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

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

Minimum 0	Maximum 20000	
Mean 15024.9	Std. Dev. 8667.43	Variance 7.51244E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 312
95% of values less than 1054

Minimum 0	Maximum 20000	
Mean 509.114	Std. Dev. 2309.87	Variance 5.33552E+006

Phase: Cell 14a

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 857.675
10% of values less than 857.675
50% of values less than 857.675
90% of values less than 1386.52
95% of values less than 1468.93

Minimum 857.675	Maximum 1670.18	
Mean 971.793	Std. Dev. 216.771	Variance 46989.6

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 14a

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.18987
10% of values less than 1.18987
50% of values less than 1.18987
90% of values less than 1.30475
95% of values less than 1.32251

Minimum 1.18987	Maximum 1.36572	
Mean 1.21466	Std. Dev. 0.0470489	Variance 0.0022136

At 154 years

05% of values less than 2.89198
10% of values less than 2.89198
50% of values less than 2.89198
90% of values less than 2.89221
95% of values less than 2.90041

Minimum 2.89198	Maximum 5.07615	
Mean 2.92418	Std. Dev. 0.20557	Variance 0.0422591

At 1054 years

05% of values less than 2.89226
10% of values less than 2.89226
50% of values less than 2.89226
90% of values less than 2.89226
95% of values less than 2.89226

Minimum 2.89226	Maximum 2.89226	
Mean 2.89226	Std. Dev. 1.00676E-007	Variance 1.01357E-014

At infinity

05% of values less than 2.89226
10% of values less than 2.89226
50% of values less than 2.89226
90% of values less than 2.89226
95% of values less than 2.89226

Minimum 2.89226	Maximum 2.89226	
Mean 2.89226	Std. Dev. 1.00676E-007	Variance 1.01357E-014

Phase: Cell 14a

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 14a

Leakage through EBS [l/day]

At 29 years

05% of values less than 295.258
10% of values less than 377.667
50% of values less than 906.509
90% of values less than 906.509
95% of values less than 906.509

Minimum 94.0082	Maximum 906.509	
Mean 792.39	Std. Dev. 216.771	Variance 46989.6

At 54 years

05% of values less than 390.217
10% of values less than 492.368
50% of values less than 992.567
90% of values less than 992.567
95% of values less than 992.567

Minimum 128.347	Maximum 997.942	
Mean 888.694	Std. Dev. 211.366	Variance 44675.6

At 154 years

05% of values less than 1764.06
10% of values less than 1764.06
50% of values less than 1764.06
90% of values less than 1764.16
95% of values less than 1767.88

Minimum 1764.06	Maximum 1945.97	
Mean 1766.7	Std. Dev. 16.1707	Variance 261.493

At 1054 years

05% of values less than 1764.18
10% of values less than 1764.18
50% of values less than 1764.18
90% of values less than 1764.18
95% of values less than 1764.18

Minimum 1764.18	Maximum 1764.18	
Mean 1764.18	Std. Dev. 8.49227E-005	Variance -7.21187E-009

At infinity

05% of values less than 1764.18
10% of values less than 1764.18
50% of values less than 1764.18
90% of values less than 1764.18
95% of values less than 1764.18

Minimum 1764.18	Maximum 1764.18	
Mean 1764.18	Std. Dev. 8.49227E-005	Variance -7.21187E-009

Phase: Cell 14a

Aquifer Flow [m³/year]

At 29 years

05% of values less than 30157.8
10% of values less than 35605.6
50% of values less than 93188.2
90% of values less than 259480
95% of values less than 291584

Minimum 0	Maximum 466072	
Mean 120006	Std. Dev. 86275.1	Variance 7.4434E+009

At 54 years

05% of values less than 30157.8
10% of values less than 35605.6
50% of values less than 93188.2
90% of values less than 259480
95% of values less than 291584

Minimum 0	Maximum 466072	
Mean 120006	Std. Dev. 86275.1	Variance 7.4434E+009

At 154 years

05% of values less than 30157.8
10% of values less than 35605.6
50% of values less than 93188.2
90% of values less than 259480
95% of values less than 291584

Minimum 0	Maximum 466072	
Mean 120006	Std. Dev. 86275.1	Variance 7.4434E+009

At 1054 years

05% of values less than 30157.8
10% of values less than 35605.6
50% of values less than 93188.2
90% of values less than 259480
95% of values less than 291584

Minimum 0	Maximum 466072	
Mean 120006	Std. Dev. 86275.1	Variance 7.4434E+009

At infinity

05% of values less than 30157.8
10% of values less than 35605.6
50% of values less than 93188.2
90% of values less than 259480
95% of values less than 291584

Minimum 0	Maximum 466072	
Mean 120006	Std. Dev. 86275.1	Variance 7.4434E+009

Phase: Cell 15

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 10.2862
10% of values less than 11.6973
50% of values less than 17.6713
90% of values less than 23.0955
95% of values less than 24.1617

Minimum 7.98803	Maximum 29.2432	
Mean 17.3662	Std. Dev. 4.3422	Variance 18.8547

At 54 years

05% of values less than 10.1849
10% of values less than 11.5845
50% of values less than 17.5012
90% of values less than 22.8681
95% of values less than 23.9283

Minimum 7.90937	Maximum 28.9552	
Mean 17.1958	Std. Dev. 4.29964	Variance 18.4869

At 154 years

05% of values less than 9.80551
10% of values less than 11.1502
50% of values less than 16.8383
90% of values less than 22.0163
95% of values less than 23.0183

Minimum 7.61476	Maximum 27.8767	
Mean 16.5541	Std. Dev. 4.13946	Variance 17.1351

At 1054 years

05% of values less than 6.73316
10% of values less than 7.65256
50% of values less than 11.5624
90% of values less than 15.118
95% of values less than 15.8059

Minimum 5.22884	Maximum 19.1421	
Mean 11.3668	Std. Dev. 2.84213	Variance 8.07771

At infinity

05% of values less than 0.00246211
10% of values less than 0.00279831
50% of values less than 0.00422801
90% of values less than 0.00552818
95% of values less than 0.00577972

Minimum 0.00191203	Maximum 0.00699968	
Mean 0.0041565	Std. Dev. 0.00103928	Variance 1.0801E-006

Phase: Cell 15

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 8.42942E-024
10% of values less than 4.97222E-022
50% of values less than 1.5941E-011
90% of values less than 0.000384437
95% of values less than 0.00153021

Minimum 8.11496E-029	Maximum 0.00648336	
Mean 0.000211301	Std. Dev. 0.000759583	Variance 5.76967E-007

At 54 years

05% of values less than 8.42942E-024
10% of values less than 4.97222E-022
50% of values less than 1.5941E-011
90% of values less than 0.000383912
95% of values less than 0.00152517

Minimum 8.11496E-029	Maximum 0.00644898	
Mean 0.000210495	Std. Dev. 0.000756133	Variance 5.71737E-007

At 154 years

05% of values less than 8.42942E-024
10% of values less than 4.97222E-022
50% of values less than 1.5941E-011
90% of values less than 0.000381908
95% of values less than 0.001506

Minimum 8.11496E-029	Maximum 0.00631875	
Mean 0.000207424	Std. Dev. 0.000743031	Variance 5.52095E-007

At 1054 years

05% of values less than 8.42942E-024
10% of values less than 4.97222E-022
50% of values less than 1.5941E-011
90% of values less than 0.000362622
95% of values less than 0.00132871

Minimum 8.11496E-029	Maximum 0.00516298	
Mean 0.000179558	Std. Dev. 0.000625617	Variance 3.91396E-007

At infinity

05% of values less than 8.42942E-024
10% of values less than 4.97222E-022
50% of values less than 1.5941E-011
90% of values less than 8.98553E-005
95% of values less than 0.00010178

Minimum 8.11496E-029	Maximum 0.000143038	
Mean 1.66136E-005	Std. Dev. 3.59526E-005	Variance 1.29259E-009

Phase: Cell 15

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 1.02704E-023
10% of values less than 3.93529E-022
50% of values less than 2.35119E-011
90% of values less than 0.00249527
95% of values less than 0.0312964

Minimum 1.93448E-028	Maximum 0.346424	
Mean 0.0065113	Std. Dev. 0.035102	Variance 0.00123215

At 54 years

05% of values less than 1.02704E-023
10% of values less than 3.93529E-022
50% of values less than 2.35119E-011
90% of values less than 0.00249476
95% of values less than 0.0312011

Minimum 1.93448E-028	Maximum 0.344435	
Mean 0.00648168	Std. Dev. 0.0349102	Variance 0.00121872

At 154 years

05% of values less than 1.02704E-023
10% of values less than 3.93529E-022
50% of values less than 2.35119E-011
90% of values less than 0.00249283
95% of values less than 0.0308381

Minimum 1.93448E-028	Maximum 0.336911	
Mean 0.00636884	Std. Dev. 0.0341833	Variance 0.0011685

At 1054 years

05% of values less than 1.02704E-023
10% of values less than 3.93529E-022
50% of values less than 2.35119E-011
90% of values less than 0.00247377
95% of values less than 0.0274644

Minimum 1.93448E-028	Maximum 0.270729	
Mean 0.00536173	Std. Dev. 0.0277773	Variance 0.000771576

At infinity

05% of values less than 1.02704E-023
10% of values less than 3.93529E-022
50% of values less than 2.35119E-011
90% of values less than 0.00210461
95% of values less than 0.00239573

Minimum 1.93448E-028	Maximum 0.00270971	
Mean 0.000327633	Std. Dev. 0.00076148	Variance 5.79851E-007

Phase: Cell 15

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 1.30608E-024
10% of values less than 1.68473E-021
50% of values less than 5.67315E-010
90% of values less than 0.00688849
95% of values less than 0.0526366

Minimum 1.52422E-029	Maximum 1.21986	
Mean 0.0213547	Std. Dev. 0.116262	Variance 0.0135169

At 54 years

05% of values less than 1.30608E-024
10% of values less than 1.68473E-021
50% of values less than 5.67315E-010
90% of values less than 0.00684838
95% of values less than 0.052275

Minimum 1.52422E-029	Maximum 1.20955	
Mean 0.0211853	Std. Dev. 0.115304	Variance 0.013295

At 154 years

05% of values less than 1.30608E-024
10% of values less than 1.68473E-021
50% of values less than 5.67315E-010
90% of values less than 0.00669477
95% of values less than 0.0509061

Minimum 1.52422E-029	Maximum 1.17079	
Mean 0.0205451	Std. Dev. 0.111684	Variance 0.0124732

At 1054 years

05% of values less than 1.30608E-024
10% of values less than 1.68473E-021
50% of values less than 5.67315E-010
90% of values less than 0.00535273
95% of values less than 0.0391524

Minimum 1.52422E-029	Maximum 0.848053	
Mean 0.0151724	Std. Dev. 0.0814967	Variance 0.00664171

At infinity

05% of values less than 1.30608E-024
10% of values less than 1.68473E-021
50% of values less than 5.67315E-010
90% of values less than 4.82025E-005
95% of values less than 0.00015577

Minimum 1.52422E-029	Maximum 0.000954584	
Mean 2.97985E-005	Std. Dev. 0.000114194	Variance 1.30403E-008

Phase: Cell 15

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 4.95755E-008		
10% of values less than 2.99996E-007		
50% of values less than 0.000184897		
90% of values less than 0.110267		
95% of values less than 0.207676		
Minimum 1.06546E-011	Maximum 0.385414	
Mean 0.0315905	Std. Dev. 0.0758327	Variance 0.0057506

At 54 years

05% of values less than 0.0440094		
10% of values less than 0.090833		
50% of values less than 0.578702		
90% of values less than 2.88439		
95% of values less than 3.8704		
Minimum 0.00666208	Maximum 5.64628	
Mean 1.077	Std. Dev. 1.19051	Variance 1.41732

At 154 years

05% of values less than 1.17361		
10% of values less than 1.45754		
50% of values less than 3.38901		
90% of values less than 6.89658		
95% of values less than 7.50033		
Minimum 0.382017	Maximum 10.8478	
Mean 3.68071	Std. Dev. 2.03559	Variance 4.14364

At 1054 years

05% of values less than 0.295106		
10% of values less than 0.404688		
50% of values less than 1.42695		
90% of values less than 3.42917		
95% of values less than 4.12148		
Minimum 0.0527458	Maximum 5.97591	
Mean 1.67595	Std. Dev. 1.21572	Variance 1.47797

At infinity

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 15

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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

Minimum 0	Maximum 6.79006E-010	
Mean 3.37925E-012	Std. Dev. 4.78933E-011	Variance 2.29377E-021

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.58447E-012
95% of values less than 7.39642E-010

Minimum 0	Maximum 0.000251846	
Mean 1.30649E-006	Std. Dev. 1.77727E-005	Variance 3.15868E-010

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.24391E-007
95% of values less than 4.47576E-006

Minimum 0	Maximum 0.00219204	
Mean 2.04542E-005	Std. Dev. 0.000187295	Variance 3.50794E-008

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.49891E-013
90% of values less than 4.02926E-005
95% of values less than 0.00026428

Minimum 0	Maximum 0.00531395	
Mean 9.2818E-005	Std. Dev. 0.000507776	Variance 2.57837E-007

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.1632E-011
90% of values less than 0.000109938
95% of values less than 0.000126954

Minimum 0	Maximum 0.000145187	
Mean 1.7368E-005	Std. Dev. 4.06229E-005	Variance 1.65022E-009

Phase: Cell 15

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.5173E-016		
95% of values less than 2.543E-015		
Minimum 0	Maximum 3.02484E-014	
Mean 5.33983E-016	Std. Dev. 2.88942E-015	Variance 8.34873E-030

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 6.82415E-013		
90% of values less than 5.35155E-005		
95% of values less than 0.000862818		
Minimum 0	Maximum 0.0142199	
Mean 0.000284775	Std. Dev. 0.0014997	Variance 2.24911E-006

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 2.34493E-011		
90% of values less than 0.00215255		
95% of values less than 0.00339665		
Minimum 0	Maximum 0.00497973	
Mean 0.000422368	Std. Dev. 0.00105018	Variance 1.10287E-006

Phase: Cell 15

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0
10% of values less than 0
50% of values less than 8.2799E-016
90% of values less than 1.29634E-008
95% of values less than 1.58642E-007

Minimum 0	Maximum 1.02456E-005	
Mean 1.19835E-007	Std. Dev. 9.62038E-007	Variance 9.25516E-013

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.05209E-012
90% of values less than 4.85527E-006
95% of values less than 0.000123169

Minimum 0	Maximum 0.0660548	
Mean 0.000489169	Std. Dev. 0.00495908	Variance 2.45925E-005

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.68451E-011
90% of values less than 0.000269788
95% of values less than 0.00203252

Minimum 0	Maximum 0.271738	
Mean 0.00248436	Std. Dev. 0.0208949	Variance 0.000436595

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 2.72331E-011
90% of values less than 4.29067E-005
95% of values less than 0.000390103

Minimum 0	Maximum 0.136459	
Mean 0.001204	Std. Dev. 0.0104672	Variance 0.000109561

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 4.31438E-011
95% of values less than 5.42643E-010

Minimum 0	Maximum 1.08963E-008	
Mean 2.37615E-010	Std. Dev. 1.26143E-009	Variance 1.5912E-018

Phase: Cell 15

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 3.63182E-010		
10% of values less than 5.86596E-009		
50% of values less than 7.83871E-006		
90% of values less than 0.00600198		
95% of values less than 0.0261049		
Minimum 4.25258E-013	Maximum 0.217809	
Mean 0.00537982	Std. Dev. 0.0240769	Variance 0.000579695

At 154 years

05% of values less than 0.00859214		
10% of values less than 0.0153605		
50% of values less than 0.111559		
90% of values less than 0.612803		
95% of values less than 0.89386		
Minimum 0.00249184	Maximum 2.78206	
Mean 0.251382	Std. Dev. 0.404646	Variance 0.163738

At 1054 years

05% of values less than 0.00966452		
10% of values less than 0.0151225		
50% of values less than 0.10143		
90% of values less than 0.474553		
95% of values less than 0.678853		
Minimum 0.00264534	Maximum 2.08948	
Mean 0.200072	Std. Dev. 0.305202	Variance 0.0931485

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 5.09395E-015		
90% of values less than 1.05888E-013		
95% of values less than 2.15797E-013		
Minimum 0	Maximum 4.33966E-010	
Mean 2.5136E-012	Std. Dev. 3.07464E-011	Variance 9.4534E-022

Phase: Cell 15

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 5.3731E-013	
Mean 5.13059E-015	Std. Dev. 5.12164E-014	Variance 2.62312E-027

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.20835E-009
95% of values less than 1.44094E-006

Minimum 0	Maximum 0.00424415	
Mean 2.32405E-005	Std. Dev. 0.000299593	Variance 8.97559E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.1632E-011
90% of values less than 6.99811E-005
95% of values less than 0.00033544

Minimum 0	Maximum 0.00147955	
Mean 4.00599E-005	Std. Dev. 0.000142814	Variance 2.03958E-008

Phase: Cell 15

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 3.55015E-013	
Mean 1.78691E-015	Std. Dev. 2.50404E-014	Variance 6.27021E-028

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 2.19288E-011
90% of values less than 0.00222192
95% of values less than 0.0096145

Minimum 0	Maximum 0.0409924	
Mean 0.00133726	Std. Dev. 0.00489851	Variance 2.39954E-005

Phase: Cell 15

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 3.8371E-011
95% of values less than 4.3181E-010

Minimum 0	Maximum 2.20878E-006	
Mean 1.49582E-008	Std. Dev. 1.58472E-007	Variance 2.51134E-014

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 4.74946E-015
90% of values less than 2.66705E-007
95% of values less than 4.54303E-006

Minimum 0	Maximum 0.00313788	
Mean 2.94768E-005	Std. Dev. 0.000267067	Variance 7.1325E-008

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.03131E-014
90% of values less than 2.75245E-007
95% of values less than 3.83151E-006

Minimum 0	Maximum 0.00272898	
Mean 2.48376E-005	Std. Dev. 0.000225859	Variance 5.10124E-008

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.97031E-014
95% of values less than 2.96072E-012

Minimum 0	Maximum 2.22117E-010	
Mean 4.23685E-012	Std. Dev. 2.55892E-011	Variance 6.54806E-022

Phase: Cell 15

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

05% of values less than 232
10% of values less than 232
50% of values less than 256
90% of values less than 256
95% of values less than 256

Minimum 190	Maximum 282	
Mean 247.194	Std. Dev. 14.6071	Variance 213.367

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

05% of values less than 0
10% of values less than 0
50% of values less than 18114
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 13203.1	Std. Dev. 8295.7	Variance 6.88186E+007

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

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

Minimum 0	Maximum 20000	
Mean 14436	Std. Dev. 8617.07	Variance 7.42539E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 282
90% of values less than 12189
95% of values less than 13458

Minimum 0	Maximum 18114	
Mean 2132.97	Std. Dev. 4721.61	Variance 2.22936E+007

Phase: Cell 15

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 6.92084E-014		
10% of values less than 9.19738E-013		
50% of values less than 4.51386E-009		
90% of values less than 9.02287E-006		
95% of values less than 4.27135E-005		
Minimum 1.14308E-016	Maximum 0.000363818	
Mean 9.12819E-006	Std. Dev. 4.19077E-005	Variance 1.75626E-009

At 154 years

05% of values less than 4.61811E-005		
10% of values less than 6.68293E-005		
50% of values less than 0.000711249		
90% of values less than 0.00684958		
95% of values less than 0.0107696		
Minimum 1.06343E-005	Maximum 0.028764	
Mean 0.00246889	Std. Dev. 0.0046007	Variance 2.11664E-005

At 1054 years

05% of values less than 9.55477E-005		
10% of values less than 0.000138843		
50% of values less than 0.0011035		
90% of values less than 0.00772241		
95% of values less than 0.0112976		
Minimum 2.88381E-005	Maximum 0.0271024	
Mean 0.00285632	Std. Dev. 0.00457758	Variance 2.09542E-005

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 7.75289E-017		
90% of values less than 3.57432E-015		
95% of values less than 1.28658E-014		
Minimum 0	Maximum 7.09726E-011	
Mean 4.08188E-013	Std. Dev. 5.04533E-012	Variance 2.54554E-023

Phase: Cell 15

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 5.19306E-016	
Mean 2.58566E-018	Std. Dev. 3.66289E-017	Variance 1.34167E-033

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 6.15006E-014
95% of values less than 2.47023E-009

Minimum 0	Maximum 1.45822E-005	
Mean 7.77956E-008	Std. Dev. 1.02911E-006	Variance 1.05907E-012

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.42107E-014
90% of values less than 5.56607E-007
95% of values less than 3.12603E-006

Minimum 0	Maximum 3.37501E-005	
Mean 6.10492E-007	Std. Dev. 2.8931E-006	Variance 8.37E-012

Phase: Cell 15

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 3.9284E-013
90% of values less than 2.85934E-005
95% of values less than 0.000101276

Minimum 0	Maximum 0.00207524	
Mean 2.53849E-005	Std. Dev. 0.000158255	Variance 2.50446E-008

Phase: Cell 15

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.40772E-016
95% of values less than 1.51362E-015

Minimum 0	Maximum 1.43061E-012	
Mean 2.22264E-014	Std. Dev. 1.56856E-013	Variance 2.46037E-026

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 5.07032E-018
90% of values less than 6.50825E-010
95% of values less than 8.25009E-009

Minimum 0	Maximum 5.46963E-006	
Mean 5.44961E-008	Std. Dev. 4.85567E-007	Variance 2.35775E-013

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.29272E-017
90% of values less than 1.08152E-009
95% of values less than 1.59439E-008

Minimum 0	Maximum 8.7631E-006	
Mean 7.73895E-008	Std. Dev. 7.05014E-007	Variance 4.97044E-013

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.96857E-016
95% of values less than 5.61398E-015

Minimum 0	Maximum 4.19609E-013	
Mean 5.24946E-015	Std. Dev. 3.52356E-014	Variance 1.24155E-027

Phase: Cell 15

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

05% of values less than 256
10% of values less than 282
50% of values less than 282
90% of values less than 282
95% of values less than 282

Minimum 232	Maximum 344	
Mean 280.915	Std. Dev. 11.3507	Variance 128.838

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

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

Minimum 0	Maximum 20000	
Mean 13911.1	Std. Dev. 8338.08	Variance 6.95236E+007

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

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

Minimum 0	Maximum 20000	
Mean 14596.8	Std. Dev. 8626.89	Variance 7.44232E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 312
90% of values less than 2050
95% of values less than 13458

Minimum 0	Maximum 20000	
Mean 1642.3	Std. Dev. 4423.66	Variance 1.95687E+007

Phase: Cell 15

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 2610.88
10% of values less than 2610.88
50% of values less than 2610.88
90% of values less than 3310.77
95% of values less than 3391.92

Minimum 2610.88	Maximum 3561.26	
Mean 2765.08	Std. Dev. 276.841	Variance 76641.2

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 15

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.43883
10% of values less than 1.43883
50% of values less than 1.43883
90% of values less than 1.55007
95% of values less than 1.56281

Minimum 1.43883	Maximum 1.5893	
Mean 1.46336	Std. Dev. 0.0439776	Variance 0.00193403

At 154 years

05% of values less than 6.03184
10% of values less than 6.03184
50% of values less than 6.03184
90% of values less than 6.04149
95% of values less than 6.04673

Minimum 6.03184	Maximum 8.17477	
Mean 6.06134	Std. Dev. 0.196206	Variance 0.0384969

At 1054 years

05% of values less than 6.06683
10% of values less than 6.06683
50% of values less than 6.06683
90% of values less than 6.06683
95% of values less than 6.06683

Minimum 6.06683	Maximum 6.06683	
Mean 6.06683	Std. Dev. 3.13785E-007	Variance 9.84607E-014

At infinity

05% of values less than 6.06683
10% of values less than 6.06683
50% of values less than 6.06683
90% of values less than 6.06683
95% of values less than 6.06683

Minimum 6.06683	Maximum 6.06683	
Mean 6.06683	Std. Dev. 3.13785E-007	Variance 9.84607E-014

Phase: Cell 15

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 15

Leakage through EBS [l/day]

At 29 years

05% of values less than 249.538
10% of values less than 330.687
50% of values less than 1030.58
90% of values less than 1030.58
95% of values less than 1030.58

Minimum 80.2058	Maximum 1030.58	
Mean 876.384	Std. Dev. 276.841	Variance 76641.2

At 54 years

05% of values less than 390.864
10% of values less than 513.641
50% of values less than 1256.7
90% of values less than 1256.7
95% of values less than 1258.33

Minimum 127.817	Maximum 1267.85	
Mean 1107.91	Std. Dev. 299.464	Variance 89678.6

At 154 years

05% of values less than 3623.43
10% of values less than 3623.43
50% of values less than 3623.43
90% of values less than 3628.4
95% of values less than 3631.11

Minimum 3623.43	Maximum 4727.67	
Mean 3638.06	Std. Dev. 100.39	Variance 10078.1

At 1054 years

05% of values less than 3641.46
10% of values less than 3641.46
50% of values less than 3641.46
90% of values less than 3641.46
95% of values less than 3641.46

Minimum 3641.46	Maximum 3641.46	
Mean 3641.46	Std. Dev. 0.000414206	Variance 1.71566E-007

At infinity

05% of values less than 3641.46
10% of values less than 3641.46
50% of values less than 3641.46
90% of values less than 3641.46
95% of values less than 3641.46

Minimum 3641.46	Maximum 3641.46	
Mean 3641.46	Std. Dev. 0.000414206	Variance 1.71566E-007

Phase: Cell 15

Aquifer Flow [m³/year]

At 29 years

05% of values less than 37559.1
10% of values less than 44344
50% of values less than 116059
90% of values less than 323162
95% of values less than 363144

Minimum 0	Maximum 580456	
Mean 149457	Std. Dev. 107449	Variance 1.15453E+010

At 54 years

05% of values less than 37559.1
10% of values less than 44344
50% of values less than 116059
90% of values less than 323162
95% of values less than 363144

Minimum 0	Maximum 580456	
Mean 149457	Std. Dev. 107449	Variance 1.15453E+010

At 154 years

05% of values less than 37559.1
10% of values less than 44344
50% of values less than 116059
90% of values less than 323162
95% of values less than 363144

Minimum 0	Maximum 580456	
Mean 149457	Std. Dev. 107449	Variance 1.15453E+010

At 1054 years

05% of values less than 37559.1
10% of values less than 44344
50% of values less than 116059
90% of values less than 323162
95% of values less than 363144

Minimum 0	Maximum 580456	
Mean 149457	Std. Dev. 107449	Variance 1.15453E+010

At infinity

05% of values less than 37559.1
10% of values less than 44344
50% of values less than 116059
90% of values less than 323162
95% of values less than 363144

Minimum 0	Maximum 580456	
Mean 149457	Std. Dev. 107449	Variance 1.15453E+010

Phase: Cell 14b

Source Concentration of Ammoniacal_N [mg/l]

At 29 years

05% of values less than 13.3378
10% of values less than 14.2965
50% of values less than 20.5495
90% of values less than 27.0357
95% of values less than 28.2453

Minimum 9.45385	Maximum 36.5264	
Mean 20.5276	Std. Dev. 4.82462	Variance 23.2769

At 54 years

05% of values less than 13.199
10% of values less than 14.1478
50% of values less than 20.3358
90% of values less than 26.7544
95% of values less than 27.9514

Minimum 9.3555	Maximum 36.1464	
Mean 20.3149	Std. Dev. 4.77478	Variance 22.7985

At 154 years

05% of values less than 12.6721
10% of values less than 13.583
50% of values less than 19.524
90% of values less than 25.6864
95% of values less than 26.8356

Minimum 8.98203	Maximum 34.7034	
Mean 19.5038	Std. Dev. 4.58365	Variance 21.0099

At 1054 years

05% of values less than 8.53
10% of values less than 9.14315
50% of values less than 13.1422
90% of values less than 17.2903
95% of values less than 18.0639

Minimum 6.04608	Maximum 23.3599	
Mean 13.1275	Std. Dev. 3.08507	Variance 9.51763

At infinity

05% of values less than 0.00205184
10% of values less than 0.00219933
50% of values less than 0.00316127
90% of values less than 0.00415907
95% of values less than 0.00434515

Minimum 0.00145435	Maximum 0.00561908	
Mean 0.00315775	Std. Dev. 0.000742093	Variance 5.50702E-007

Phase: Cell 14b

Source Concentration of Cadmium [mg/l]

At 29 years

05% of values less than 1.44756E-024
10% of values less than 1.00731E-020
50% of values less than 2.65488E-010
90% of values less than 0.000125712
95% of values less than 0.000677916

Minimum 2.5142E-029	Maximum 0.00996888	
Mean 0.000148701	Std. Dev. 0.000846007	Variance 7.15728E-007

At 54 years

05% of values less than 1.44756E-024
10% of values less than 1.00731E-020
50% of values less than 2.65488E-010
90% of values less than 0.000125712
95% of values less than 0.000676392

Minimum 2.5142E-029	Maximum 0.00990751	
Mean 0.000148056	Std. Dev. 0.000841195	Variance 7.07609E-007

At 154 years

05% of values less than 1.44756E-024
10% of values less than 1.00731E-020
50% of values less than 2.65488E-010
90% of values less than 0.000125712
95% of values less than 0.000670486

Minimum 2.5142E-029	Maximum 0.00967201	
Mean 0.000145571	Std. Dev. 0.000822713	Variance 6.76857E-007

At 1054 years

05% of values less than 1.44756E-024
10% of values less than 1.00731E-020
50% of values less than 2.65488E-010
90% of values less than 0.000125712
95% of values less than 0.000615726

Minimum 2.5142E-029	Maximum 0.00765609	
Mean 0.00012383	Std. Dev. 0.000663878	Variance 4.40734E-007

At infinity

05% of values less than 1.44756E-024
10% of values less than 1.00731E-020
50% of values less than 2.65488E-010
90% of values less than 7.13692E-005
95% of values less than 0.000102428

Minimum 2.5142E-029	Maximum 0.000143808	
Mean 1.39078E-005	Std. Dev. 3.4179E-005	Variance 1.16821E-009

Phase: Cell 14b

Source Concentration of Copper [mg/l]

At 29 years

05% of values less than 8.75099E-022
10% of values less than 1.38451E-019
50% of values less than 1.46366E-009
90% of values less than 0.01014
95% of values less than 0.0345113

Minimum 1.12615E-027	Maximum 0.150413	
Mean 0.0048289	Std. Dev. 0.0170865	Variance 0.00029195

At 54 years

05% of values less than 8.75099E-022
10% of values less than 1.38451E-019
50% of values less than 1.46366E-009
90% of values less than 0.0101211
95% of values less than 0.0343975

Minimum 1.12615E-027	Maximum 0.149678	
Mean 0.00481132	Std. Dev. 0.0170133	Variance 0.000289453

At 154 years

05% of values less than 8.75099E-022
10% of values less than 1.38451E-019
50% of values less than 1.46366E-009
90% of values less than 0.0100479
95% of values less than 0.0339575

Minimum 1.12615E-027	Maximum 0.14684	
Mean 0.00474282	Std. Dev. 0.0167283	Variance 0.000279837

At 1054 years

05% of values less than 8.75099E-022
10% of values less than 1.38451E-019
50% of values less than 1.46366E-009
90% of values less than 0.009364
95% of values less than 0.0299648

Minimum 1.12615E-027	Maximum 0.121249	
Mean 0.00412791	Std. Dev. 0.0141839	Variance 0.000201182

At infinity

05% of values less than 8.75099E-022
10% of values less than 1.38451E-019
50% of values less than 1.46366E-009
90% of values less than 0.00212307
95% of values less than 0.00215275

Minimum 1.12615E-027	Maximum 0.0021886	
Mean 0.000379194	Std. Dev. 0.000787589	Variance 6.20296E-007

Phase: Cell 14b

Source Concentration of Naphthalene [mg/l]

At 29 years

05% of values less than 1.08308E-024
10% of values less than 2.77087E-021
50% of values less than 1.27138E-008
90% of values less than 0.0264879
95% of values less than 0.121409

Minimum 4.21257E-028	Maximum 1.72908	
Mean 0.0273142	Std. Dev. 0.14108	Variance 0.0199034

At 54 years

05% of values less than 1.08308E-024
10% of values less than 2.77087E-021
50% of values less than 1.27138E-008
90% of values less than 0.0263056
95% of values less than 0.120476

Minimum 4.21257E-028	Maximum 1.71338	
Mean 0.0270874	Std. Dev. 0.139828	Variance 0.0195518

At 154 years

05% of values less than 1.08308E-024
10% of values less than 2.77087E-021
50% of values less than 1.27138E-008
90% of values less than 0.0256072
95% of values less than 0.116911

Minimum 4.21257E-028	Maximum 1.6536	
Mean 0.0262205	Std. Dev. 0.135054	Variance 0.0182395

At 1054 years

05% of values less than 1.08308E-024
10% of values less than 2.77087E-021
50% of values less than 1.27138E-008
90% of values less than 0.0197168
95% of values less than 0.0873186

Minimum 4.21257E-028	Maximum 1.17115	
Mean 0.0191198	Std. Dev. 0.0963964	Variance 0.00929226

At infinity

05% of values less than 1.08308E-024
10% of values less than 2.77087E-021
50% of values less than 1.27138E-008
90% of values less than 8.03333E-005
95% of values less than 0.000187419

Minimum 4.21257E-028	Maximum 0.000821662	
Mean 3.0187E-005	Std. Dev. 9.106E-005	Variance 8.29191E-009

Phase: Cell 14b

Concentration of Ammoniacal_N at base of Clay Liner [mg/l]

At 29 years

05% of values less than 2.15487E-006
10% of values less than 1.13154E-005
50% of values less than 0.00132071
90% of values less than 0.379811
95% of values less than 0.527295

Minimum 1.15055E-011	Maximum 1.8431	
Mean 0.0944381	Std. Dev. 0.228874	Variance 0.0523831

At 54 years

05% of values less than 0.058068
10% of values less than 0.113653
50% of values less than 0.695312
90% of values less than 2.94005
95% of values less than 3.82266

Minimum 0.0051676	Maximum 8.79361	
Mean 1.19418	Std. Dev. 1.33038	Variance 1.76992

At 154 years

05% of values less than 1.10164
10% of values less than 1.42023
50% of values less than 3.10564
90% of values less than 6.41849
95% of values less than 7.92422

Minimum 0.584776	Maximum 12.9454	
Mean 3.60232	Std. Dev. 2.24335	Variance 5.03261

At 1054 years

05% of values less than 0.19767
10% of values less than 0.30089
50% of values less than 1.08509
90% of values less than 3.03247
95% of values less than 3.82963

Minimum 0.0350488	Maximum 8.1509	
Mean 1.47738	Std. Dev. 1.31216	Variance 1.72176

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 14b

Concentration of Cadmium at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 2.09274E-010	
Mean 1.30088E-012	Std. Dev. 1.50423E-011	Variance 2.26269E-022

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.41263E-013		
95% of values less than 1.76944E-010		
Minimum 0	Maximum 7.02655E-005	
Mean 5.0784E-007	Std. Dev. 5.20591E-006	Variance 2.71015E-011

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 1.91166E-008		
95% of values less than 1.97069E-006		
Minimum 0	Maximum 0.000953134	
Mean 8.80852E-006	Std. Dev. 7.65078E-005	Variance 5.85344E-009

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 4.06718E-013		
90% of values less than 9.24765E-006		
95% of values less than 0.000156736		
Minimum 0	Maximum 0.00342689	
Mean 5.52224E-005	Std. Dev. 0.000319523	Variance 1.02095E-007

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.12227E-010		
90% of values less than 7.1243E-005		
95% of values less than 0.000125712		
Minimum 0	Maximum 0.000144439	
Mean 1.44438E-005	Std. Dev. 3.74204E-005	Variance 1.40029E-009

Phase: Cell 14b

Concentration of Copper at base of Clay Liner [mg/l]

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 4.33427E-016		
95% of values less than 2.33991E-015		
Minimum 0	Maximum 1.21878E-014	
Mean 3.53517E-016	Std. Dev. 1.4211E-015	Variance 2.01952E-030

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 9.33659E-012		
90% of values less than 5.50351E-005		
95% of values less than 0.000553997		
Minimum 0	Maximum 0.00470428	
Mean 0.000114198	Std. Dev. 0.000533551	Variance 2.84677E-007

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.4565E-009		
90% of values less than 0.00263882		
95% of values less than 0.00310535		
Minimum 0	Maximum 0.00393261	
Mean 0.000496344	Std. Dev. 0.00107024	Variance 1.14542E-006

Phase: Cell 14b

Concentration of Naphthalene at base of Clay Liner [mg/l]

At 29 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.14058E-013		
90% of values less than 3.75621E-007		
95% of values less than 2.03508E-006		
Minimum 0	Maximum 4.53817E-005	
Mean 6.66271E-007	Std. Dev. 3.8021E-006	Variance 1.4456E-011

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 1.40789E-011		
90% of values less than 4.34738E-005		
95% of values less than 0.000321219		
Minimum 0	Maximum 0.00728083	
Mean 0.000146034	Std. Dev. 0.000791932	Variance 6.27157E-007

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.99341E-010		
90% of values less than 0.000796792		
95% of values less than 0.00325467		
Minimum 0	Maximum 0.0503636	
Mean 0.000894689	Std. Dev. 0.00469059	Variance 2.20017E-005

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 6.19416E-011		
90% of values less than 0.000155089		
95% of values less than 0.00177593		
Minimum 0	Maximum 0.0226308	
Mean 0.000384062	Std. Dev. 0.00199578	Variance 3.98315E-006

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 4.40924E-011		
95% of values less than 4.02548E-010		
Minimum 0	Maximum 5.75149E-009	
Mean 9.81879E-011	Std. Dev. 5.22648E-010	Variance 2.73161E-019

Phase: Cell 14b

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.39397E-007
10% of values less than 6.90819E-007
50% of values less than 0.000682088
90% of values less than 0.0650556
95% of values less than 0.153402

Minimum 2.08417E-011	Maximum 1.269	
Mean 0.025578	Std. Dev. 0.101075	Variance 0.0102162

At 154 years

05% of values less than 0.020724
10% of values less than 0.0324379
50% of values less than 0.24639
90% of values less than 0.989575
95% of values less than 1.27306

Minimum 0.0112272	Maximum 4.00035	
Mean 0.431524	Std. Dev. 0.533515	Variance 0.284639

At 1054 years

05% of values less than 0.0202175
10% of values less than 0.0299589
50% of values less than 0.191109
90% of values less than 0.744936
95% of values less than 0.976858

Minimum 0.00768885	Maximum 2.88787	
Mean 0.32784	Std. Dev. 0.400234	Variance 0.160187

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.41005E-015
90% of values less than 1.10075E-013
95% of values less than 2.01362E-013

Minimum 0	Maximum 2.41561E-008	
Mean 1.63983E-010	Std. Dev. 1.81039E-009	Variance 3.27751E-018

Phase: Cell 14b

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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 2.80108E-016

Minimum 0	Maximum 4.68769E-008	
Mean 3.60314E-010	Std. Dev. 3.56387E-009	Variance 1.27012E-017

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.38357E-008
95% of values less than 2.1506E-006

Minimum 0	Maximum 0.000541023	
Mean 5.55629E-006	Std. Dev. 4.20242E-005	Variance 1.76604E-009

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 9.95099E-011
90% of values less than 5.95244E-005
95% of values less than 0.00018225

Minimum 0	Maximum 0.0022468	
Mean 3.50094E-005	Std. Dev. 0.000175305	Variance 3.07319E-008

Phase: Cell 14b

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 5.59203E-016
95% of values less than 1.24528E-011

Minimum 0	Maximum 3.38695E-008	
Mean 2.85468E-010	Std. Dev. 2.68091E-009	Variance 7.18731E-018

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 1.24419E-009
90% of values less than 0.00485845
95% of values less than 0.0090227

Minimum 0	Maximum 0.0273061	
Mean 0.00134071	Std. Dev. 0.00385402	Variance 1.48534E-005

Phase: Cell 14b

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

At 29 years

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		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 2.7398E-015		
90% of values less than 5.99606E-009		
95% of values less than 5.09943E-008		
Minimum 0	Maximum 2.89353E-005	
Mean 3.91858E-007	Std. Dev. 2.75687E-006	Variance 7.60033E-012

At 154 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 3.2221E-013		
90% of values less than 3.14417E-006		
95% of values less than 2.64803E-005		
Minimum 0	Maximum 0.009006	
Mean 7.57206E-005	Std. Dev. 0.000671903	Variance 4.51454E-007

At 1054 years

05% of values less than 0		
10% of values less than 0		
50% of values less than 7.50399E-013		
90% of values less than 3.06828E-006		
95% of values less than 1.99864E-005		
Minimum 0	Maximum 0.00714961	
Mean 5.94053E-005	Std. Dev. 0.000530284	Variance 2.81201E-007

At infinity

05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.70898E-013		
95% of values less than 1.05211E-011		
Minimum 0	Maximum 2.72416E-010	
Mean 4.5224E-012	Std. Dev. 2.59708E-011	Variance 6.74484E-022

Phase: Cell 14b

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

05% of values less than 210
10% of values less than 210
50% of values less than 232
90% of values less than 256
95% of values less than 256

Minimum 190	Maximum 312	
Mean 228.388	Std. Dev. 19.2101	Variance 369.029

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

05% of values less than 0
10% of values less than 0
50% of values less than 18114
90% of values less than 20000
95% of values less than 20000

Minimum 0	Maximum 20000	
Mean 13308.3	Std. Dev. 8383.7	Variance 7.02864E+007

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

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

Minimum 0	Maximum 20000	
Mean 15669.2	Std. Dev. 7737.67	Variance 5.98715E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 256
90% of values less than 12189
95% of values less than 14859

Minimum 0	Maximum 18114	
Mean 2656.95	Std. Dev. 5246.77	Variance 2.75286E+007

Phase: Cell 14b

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

At 29 years

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 2.77097E-019

Minimum 0	Maximum 5.69286E-018	
Mean 7.46958E-020	Std. Dev. 4.70016E-019	Variance 2.20915E-037

At 54 years

05% of values less than 6.49269E-011
10% of values less than 5.48669E-010
50% of values less than 4.31255E-007
90% of values less than 9.96575E-005
95% of values less than 0.000199243

Minimum 4.4713E-015	Maximum 0.0011472	
Mean 3.30205E-005	Std. Dev. 0.000109703	Variance 1.20347E-008

At 154 years

05% of values less than 7.71598E-005
10% of values less than 0.00011193
50% of values less than 0.00114663
90% of values less than 0.00945527
95% of values less than 0.0120938

Minimum 1.60272E-005	Maximum 0.0286059	
Mean 0.00279278	Std. Dev. 0.0043963	Variance 1.93274E-005

At 1054 years

05% of values less than 9.56242E-005
10% of values less than 0.000230104
50% of values less than 0.00145112
90% of values less than 0.00908959
95% of values less than 0.0124473

Minimum 3.14841E-005	Maximum 0.0286464	
Mean 0.00308555	Std. Dev. 0.00446338	Variance 1.99218E-005

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 8.06635E-017
90% of values less than 1.50077E-015
95% of values less than 4.66369E-015

Minimum 0	Maximum 1.56774E-010	
Mean 1.02063E-012	Std. Dev. 1.15495E-011	Variance 1.33391E-022

Phase: Cell 14b

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 1.09662E-014	
Mean 8.92549E-017	Std. Dev. 9.13916E-016	Variance 8.35242E-031

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.68752E-012
95% of values less than 2.55633E-010

Minimum 0	Maximum 1.72457E-006	
Mean 1.62535E-008	Std. Dev. 1.3589E-007	Variance 1.8466E-014

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 5.52996E-013
90% of values less than 3.59613E-007
95% of values less than 1.08649E-006

Minimum 0	Maximum 2.40268E-005	
Mean 3.69095E-007	Std. Dev. 2.03944E-006	Variance 4.15933E-012

Phase: Cell 14b

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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 2.96045E-018

Minimum 0	Maximum 1.5228E-013	
Mean 8.84154E-016	Std. Dev. 1.08006E-014	Variance 1.16654E-028

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 4.62235E-012
90% of values less than 3.20711E-005
95% of values less than 7.04397E-005

Minimum 0	Maximum 0.000439792	
Mean 1.31259E-005	Std. Dev. 4.65552E-005	Variance 2.16738E-009

Phase: Cell 14b

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

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 1.0086E-012
95% of values less than 9.83914E-012

Minimum 0	Maximum 3.81878E-009	
Mean 5.63731E-011	Std. Dev. 4.16164E-010	Variance 1.73192E-019

At 154 years

05% of values less than 0
10% of values less than 0
50% of values less than 7.94788E-016
90% of values less than 7.91675E-009
95% of values less than 5.92128E-008

Minimum 0	Maximum 3.98579E-005	
Mean 2.58576E-007	Std. Dev. 2.84143E-006	Variance 8.07372E-012

At 1054 years

05% of values less than 0
10% of values less than 0
50% of values less than 1.77572E-015
90% of values less than 1.05683E-008
95% of values less than 7.50933E-008

Minimum 0	Maximum 4.74836E-005	
Mean 3.09642E-007	Std. Dev. 3.38459E-006	Variance 1.14554E-011

At infinity

05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 2.74065E-015
95% of values less than 7.86309E-014

Minimum 0	Maximum 4.90795E-012	
Mean 4.13764E-014	Std. Dev. 3.57325E-013	Variance 1.27681E-025

Phase: Cell 14b

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

05% of values less than 232
10% of values less than 256
50% of values less than 256
90% of values less than 282
95% of values less than 282

Minimum 210	Maximum 344	
Mean 264.09	Std. Dev. 18.0779	Variance 326.812

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

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

Minimum 0	Maximum 20000	
Mean 14131.9	Std. Dev. 8425.93	Variance 7.09964E+007

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

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

Minimum 0	Maximum 20000	
Mean 15882.3	Std. Dev. 7733.33	Variance 5.98044E+007

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

05% of values less than 0
10% of values less than 0
50% of values less than 282
90% of values less than 12189
95% of values less than 14859

Minimum 0	Maximum 20000	
Mean 2267.82	Std. Dev. 5024.32	Variance 2.52438E+007

Phase: Cell 14b

Flow to Leachate Treatment Plant [l/day]

At 29 years

05% of values less than 1014.39
10% of values less than 1014.39
50% of values less than 1014.39
90% of values less than 1319.87
95% of values less than 1403.17

Minimum 1014.39	Maximum 1481.63	
Mean 1090.03	Std. Dev. 135.473	Variance 18353

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 14b

Head on EBS [m]

At 29 years

05% of values less than 1
10% of values less than 1
50% of values less than 1
90% of values less than 1
95% of values less than 1

Minimum 1	Maximum 1	
Mean 1	Std. Dev. 0	Variance 0

At 54 years

05% of values less than 1.36473
10% of values less than 1.36473
50% of values less than 1.36473
90% of values less than 1.46976
95% of values less than 1.49805

Minimum 1.36473	Maximum 1.52456	
Mean 1.39073	Std. Dev. 0.0464977	Variance 0.00216204

At 154 years

05% of values less than 5.06344
10% of values less than 5.06344
50% of values less than 5.06344
90% of values less than 5.06673
95% of values less than 5.18735

Minimum 5.06344	Maximum 7.75373	
Mean 5.12729	Std. Dev. 0.344042	Variance 0.118365

At 1054 years

05% of values less than 5.07659
10% of values less than 5.07659
50% of values less than 5.07659
90% of values less than 5.07659
95% of values less than 5.07659

Minimum 5.07659	Maximum 5.07659	
Mean 5.07659	Std. Dev. 3.91769E-007	Variance 1.53483E-013

At infinity

05% of values less than 5.07659
10% of values less than 5.07659
50% of values less than 5.07659
90% of values less than 5.07659
95% of values less than 5.07659

Minimum 5.07659	Maximum 5.07659	
Mean 5.07659	Std. Dev. 3.91769E-007	Variance 1.53483E-013

Phase: Cell 14b

Surface Breakout [l/day]

At 29 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 54 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 154 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At 1054 years

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

At infinity

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

Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Phase: Cell 14b

Leakage through EBS [l/day]

At 29 years

05% of values less than 108.88
10% of values less than 192.176
50% of values less than 497.664
90% of values less than 497.664
95% of values less than 497.664

Minimum 30.4237	Maximum 497.664	
Mean 422.022	Std. Dev. 135.473	Variance 18353

At 54 years

05% of values less than 163.313
10% of values less than 282.697
50% of values less than 588.42
90% of values less than 588.42
95% of values less than 588.42

Minimum 46.4594	Maximum 593.018	
Mean 515.377	Std. Dev. 143.655	Variance 20636.8

At 154 years

05% of values less than 1508.78
10% of values less than 1508.78
50% of values less than 1508.78
90% of values less than 1509.6
95% of values less than 1524.82

Minimum 1508.78	Maximum 2122.54	
Mean 1515.9	Std. Dev. 48.951	Variance 2396.2

At 1054 years

05% of values less than 1512.05
10% of values less than 1512.05
50% of values less than 1512.05
90% of values less than 1512.05
95% of values less than 1512.05

Minimum 1512.05	Maximum 1512.05	
Mean 1512.05	Std. Dev. 0.00011021	Variance -1.21463E-008

At infinity

05% of values less than 1512.05
10% of values less than 1512.05
50% of values less than 1512.05
90% of values less than 1512.05
95% of values less than 1512.05

Minimum 1512.05	Maximum 1512.05	
Mean 1512.05	Std. Dev. 0.00011021	Variance -1.21463E-008

Phase: Cell 14b

Aquifer Flow [m³/year]

At 29 years

05% of values less than 25407.6
10% of values less than 29997.4
50% of values less than 78510.2
90% of values less than 218610
95% of values less than 245657

Minimum 0	Maximum 392661	
Mean 101104	Std. Dev. 72686	Variance 5.28325E+009

At 54 years

05% of values less than 25407.6
10% of values less than 29997.4
50% of values less than 78510.2
90% of values less than 218610
95% of values less than 245657

Minimum 0	Maximum 392661	
Mean 101104	Std. Dev. 72686	Variance 5.28325E+009

At 154 years

05% of values less than 25407.6
10% of values less than 29997.4
50% of values less than 78510.2
90% of values less than 218610
95% of values less than 245657

Minimum 0	Maximum 392661	
Mean 101104	Std. Dev. 72686	Variance 5.28325E+009

At 1054 years

05% of values less than 25407.6
10% of values less than 29997.4
50% of values less than 78510.2
90% of values less than 218610
95% of values less than 245657

Minimum 0	Maximum 392661	
Mean 101104	Std. Dev. 72686	Variance 5.28325E+009

At infinity

05% of values less than 25407.6
10% of values less than 29997.4
50% of values less than 78510.2
90% of values less than 218610
95% of values less than 245657

Minimum 0	Maximum 392661	
Mean 101104	Std. Dev. 72686	Variance 5.28325E+009