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Subject: M2301 - MCU25/0072 - Response to Information Request
Attachments: OM2301 - Response to Council's Information Request-MCU250072.pdf

Good afternoon,

Please refer to the attached correspondence for your action.

The response to SARA's Information Request is still being finalised.

If you have any questions regarding this correspondence, please contact the undersigned.

Thanks very much.

Kind regards,

Sarah Jones | SENIOR TOWN PLANNER



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MP ref: M2301
DA ref: MCU25/0072
QA: dd.sj

30 June 2026

Assessment Manager
Townsville City Council
PO Box 1268
TOWNSVILLE QLD 4810
Via: TOLS

Attention: Assessment Manager – Planning and Development

Dear Sir/ Madam,

Re: Response to Information Request

Change Application (Other) to Development Permit M33/03 for a Material Change of Use (Waste Disposal and Recycling Facility) and Environmental Authority P-EA-100698838 (ERA60 only) on land described as Lot 1 on RP735647 and located at 42386 Bruce Highway, Bluewater

On behalf of the Applicant, Milford Planning refer to the abovementioned development application and to correspondence dated **10 November 2025**, being the formal Information Request issued by Townsville City Council (Council) (refer **Attachment 1**).

To address the State Assessment and Referral Agency's and the Department of Environment, Tourism, Science and Innovation's Information Requests, the approved cell/ staging configuration has been amended. These amendments are illustrated on the amended plans prepared by Langtree Consulting Engineers, which form part of the updated Stormwater Management Plan (refer **Attachment 2**).

In response to Council's Information Request, and in accordance with Section 13.2 of the Development Assessment Rules, we hereby provide a response to all of the information requested as detailed in **Table 1** over.



Table 1 – Response to Council’s Information Request

Item	Response
Item 1 Visual Impact Assessment	This item requested the applicant to provide a Visual Impact Assessment demonstrating the proposed waste storage and processing areas will not have an adverse impact on the visual amenity of surrounding land uses or when viewed from the Bruce Highway. In response to this item, it can be concluded that the proposed development will not see any adverse impacts on the visual amenity of the surrounding area. A Contour & Detail Plan has been provided by Vision Surveys (refer Attachment 3) to confirm that the maximum height of the landfill will not be in the sight line from the Bruce Highway. The existing vegetation seen along the frontage of the site with the Bruce Highway will be retained, providing a buffer from the street to the landfill. The heights of the vegetation will either match or exceed the maximum height of the landfill, ensuring that these areas will not be visible from the highway or surrounding areas. There are conditions on Environmental Authority P-EA-100698838 that restrict the height of stockpiles and the like associated with the facility. Furthermore, it is evident from the images sourced from Queensland Globe that the existing trees and vegetation screen the facility from the Bruce Highway, when travelling in both directions (refer Attachment 4). It is considered that the above response and attachments satisfactorily address this item.
Item 2 Bushfire Hazard Assessment and Management Plan	This item requested the applicant to provide a Bushfire Hazard Assessment and Management Plan prepared in accordance with <i>SC6.8 Mitigating bushfire hazard planning scheme policy</i> of the Townsville City Plan. In response to this item, a Bushfire Management Plan has been developed by Terra Solutions Environmental Consultants (refer Attachment 5) to support the proposed development. The plan has confirmed the site as containing medium to high potential bushfire intensity. Three vegetation communities have been identified within the site, carrying a potential fuel load ranging from 8.7 t/ha to 17.2 t/ha. These aspects highlight the requirement of measures to be implemented to ensure the safety of the surrounding area. A total of seven recommendations were outlined in the report to be used for the management and operation of the facility. These recommendations range from design choices, such as providing buffer zones to all buildings from bushfire risk, placing future development areas in areas of lower bushfire risk, and landscaping and revegetation measures to be used in a way that does not increase the bushfire hazard or create more prone areas in the future. Operational recommendations include providing a firefighting water supply from a static water supply, fire danger rating-based restrictions on facility usage, the provision of a fire access trail around the perimeter of the facility that is constantly maintained to conditions, and emergency preparedness measures in the event of a bushfire event. These measures will be implemented to ensure the proposed development does not result in an increase to both the potential and risk of bushfire hazards on the surrounding area.



Table 1 – Response to Council’s Information Request

Item	Response
	It is considered that the above response and the attached satisfactorily address this item.

Proceeding

We trust the above and attached information is sufficient to allow Council to assess the development application. If Council is of the view that the response does not appropriately address the Information Request, we request the opportunity to meet to discuss further.

If you have any questions regarding this correspondence, please contact the undersigned on TEL: (07) 4724 0095.

Yours sincerely,

MILFORD PLANNING

Sarah Jones

SENIOR TOWN PLANNER

Encl: Attachment 1: Council Information Request
Attachment 2: Updated Stormwater Management Plan prepared by Langtree Consulting Engineers
Attachment 3: Contour & Detail Plan prepared by Vision Surveys
Attachment 4: Street view images sourced from Queensland Globe
Attachment 5: Bushfire Management Plan prepared by Terra Solutions

Attachment 1



Date >> 10 November 2025

PO BOX 1268, Townsville
Queensland 4810

13 48 10

Queensland Resource And Recovery Pty Ltd
C/- Milford Planning
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TOWNSVILLE CITY QLD 4810

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ABN: 44 741 992 072

Email >> info@milfordplanning.com.au

Dear Sir/Madam

Information Request

Planning Act 2016

Upon review of the below mentioned development application, further information is required to undertake a comprehensive assessment. In accordance with section 12 of Development Assessment Rules under the *Planning Act 2016* the following information is requested.

Application Details

Application no:	MCU25/0072
Assessment no:	10502033
Proposal:	Change (Other) to Development Approval M33/03 - (Waste Disposal and Recycling Facility)
Street address:	42386 Bruce Highway BLUEWATER QLD 4818
Real property description:	Lot 140 SP 112726 Lot 1 RP 735647
Applicant's reference:	M2301

The information requested is set out below >>

Request Item 1 - Visual Impact Assessment

The applicant is requested to provide a Visual Impact Assessment demonstrating the proposed waste storage and processing areas will not have an adverse impact on the visual amenity of surrounding land uses or when viewed from the Bruce Highway.

Reason

To demonstrate compliance with the Rural zone code of the Townsville City Plan.

Request Item 2 - Bushfire Hazard Assessment and Management Plan

The applicant is requested to provide a Bushfire Hazard Assessment and Management Plan prepared in accordance with *SC6.8 Mitigating bushfire hazard planning scheme policy* of the Townsville City Plan.

The Bushfire Hazard Assessment and Management Plan must consider the risk to the Waste Disposal and Recycling Facility from bushfire hazards originating external to the site, as well as potential fire hazard generated by the operations of the facility.

Reason

To demonstrate compliance with the Bushfire hazard overlay code of the Townsville City Plan.

End of Information Request >>

Under the provisions of the Development Assessment Rules under the *Planning Act 2016*, you have three options available in response to this Information Request. You may give the assessment manager (in this instance Council):

- (a) all of the information requested; **or**
- (b) part of the information requested; **or**
- (c) a notice that none of the information will be provided.

For any response given in accordance with items (b) and (c) above, you may also advise Council that it must proceed with its assessment of the development application.

Please be aware that under the Development Assessment Rules under the *Planning Act 2016*, the applicant is to respond to any Information Request within **3 months** of the request. If you do not respond to the Information Request within this time period, or, within a further period agreed between the applicant and Council, it will be taken that you have decided not to provide a response. In the event of no response being received, Council will continue with the assessment of the application without the information requested.

Council prefers that all of the information requested be submitted as one package. If any additional matters arise as a result of the information submitted, or, as a result of public notification (where applicable), you will be advised accordingly.

Should any referral agency make an information request, you are reminded of your obligation to provide council with a copy of the information response provided to that referral agency.

You may wish to follow the progress of this application using PD Online on Council's website www.townsville.qld.gov.au

If you have any further queries in relation to the above, please do not hesitate to contact Taryn Pace on telephone 07 4727 9426, or email developmentassessment@townsville.qld.gov.au.

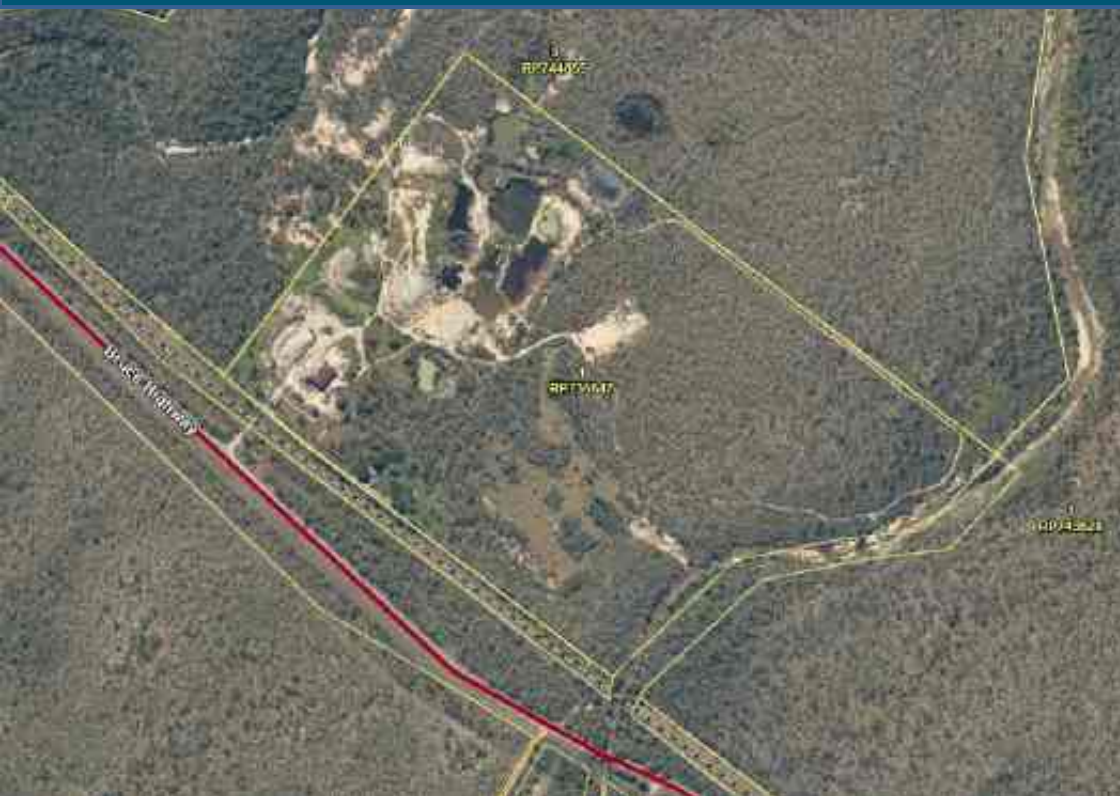
Yours faithfully



For Assessment Manager
Planning and Development

Attachment 2

42386 BRUCE HIGHWAY, BLUEWATER



STORMWATER MANAGEMENT PLAN

Absolute Waste Pty Ltd

LANGTREE CONSULTING

Project No.: 1343

Reference No.: R-NP0340

Date: 29/06/2026

Controlled Copy No.: 1

Revisions: D

Revision Record:

Rev	Review Date	Description	Prepared	Checked	Approved
A	31/07/2025	Issued for Client Comment	Natalie Pham	Brett Langtree	Brett Langtree
B	22/08/2025	Minor Amendments	Natalie Pham	Brett Langtree	Brett Langtree
C	18/06/2026	Addition of Leachate Management	Natalie Pham	Brett Langtree	Brett Langtree
D	29/06/2026	Amendment to Section 8.0	Natalie Pham	Brett Langtree	Brett Langtree

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**APPENDIX D - SOIL/WATER SOLUTION PROCEDURE, JAR TEST PROCEDURE, FLOC PERFORMANCE REPORT,
SEDIMENT BASIN PERFORMANCE REPORT**

APPENDIX E - HELP MODELLING RESULTS

APPENDIX F – POND VOLUME WATER BALANCE

1.0 INTRODUCTION

Langtree Consulting has been engaged by Absolute Waste Pty Ltd to prepare this Stormwater Management Plan in support of a Material Change of Use (MCU) application at 42386 Bruce Highway, Bluewater on land described as Lot 1 on RP735647.

The site is currently an existing waste management facility with a ERA75(a)(iii) permit (Waste disposal – operating a facility for disposing of only general waste or limited regulated waste, if the facility is designed to received waste at a rate of 5,000t or more, but less than 10,000t per year). The development proposes to increase the existing volume of waste received and processed at the facility up to 50,000t per annum.

This report addresses the following objectives:

- Identify site stormwater catchments and assess in stormwater discharge from the site;
- Evaluate potential impact on downstream properties or Council's stormwater drainage system with regards to stormwater quantity and quality in terms of soil erosion and sediment control;
- Outline the proposed leachate management onsite; and
- Determine if any mitigation measures may be required to manage or offset those impacts with regards.

2.0 BACKGROUND

The proposed development is located approximately 35km from the township of Townsville at 42386 Bruce Highway, Bluewater on land described as Lot 1 on RP735647 (hereon in referred to as the subject site). The subject site is 54.44ha in area and bound by undeveloped land to the north and west, Sleeper Log Creek to the east and the Bruce Highway and Northern Coast Rail Line to the south. Refer to **Figure 1** for site locality.



Figure 1. Site Locality (Source: Queensland Globe)

3.0 STORMWATER MANAGEMENT STRATEGY

3.1 TYPES OF STORMWATER GENERATION

Stormwater at the site is categorised as follows:

- Clean stormwater – Stormwater runoff from undisturbed or rehabilitated areas are considered to produce clean stormwater runoff which is safe to discharge to the environment.
- Sediment laden stormwater – Stormwater runoff from non-rehabilitated areas of the site typically has poor ground cover which results in transportation of sediments during rainfall events.
- Leachate – Rainfall that has come into contact with the active face of the land fill or green waste stockpiles are considered as leachate and is managed in accordance with the Leachate Management Plan and EA Permit.

Management of onsite stormwater is based on the following principles:

- Diversion of clean water from entering working areas to minimise volume of stormwater required to be treated.
- Capture of stormwater from operating areas for storage and treatment in leachate ponds or sediment ponds as required.

3.2 STORMWATER MANAGEMENT AND COLLECTION

Landfill area management will typically involve the following practices:

- Revegetation of any permanent surface (with final capping).
- Revegetation or mulching of any surfaces to be left unused for more than one month.
- Trapping of sediments in sediment basins.
- Re-use of the water from sediment basins for on-site purposes such as dust suppression.
- Stormwater that has come into contact with waste is considered leachate and shall not be sent to sediment ponds.

4.0 EXISTING STORMWATER REGIME

4.1 SURROUNDING WATERCOURSES

Four watercourses exist near the subject site as follows:

- Christmas Creek (Stream order 3) to the northwest;
- Unnamed watercourse (Stream order 1) to the north;
- Unnamed watercourse (Stream order 1) to the northeast; and
- Sleeper Log Creek (Stream order 4) to the east.

Contours indicate that stormwater from the site either discharges as overland sheet flow, via natural streams to Christmas Creek or Sleeper Log Creek. Refer to **Figure 2** for watercourses.



Figure 2. Existing watercourses near the subject site

Christmas Creek and Sleeper Log Creek are part of the Black River Basin and is considered lowland fresh water. Water Quality Objectives (WQO) for the site have been derived from the Queensland Government Black River Basin. Refer to **Figure 3** for surface water mapping and **Table 1** for water quality objectives.

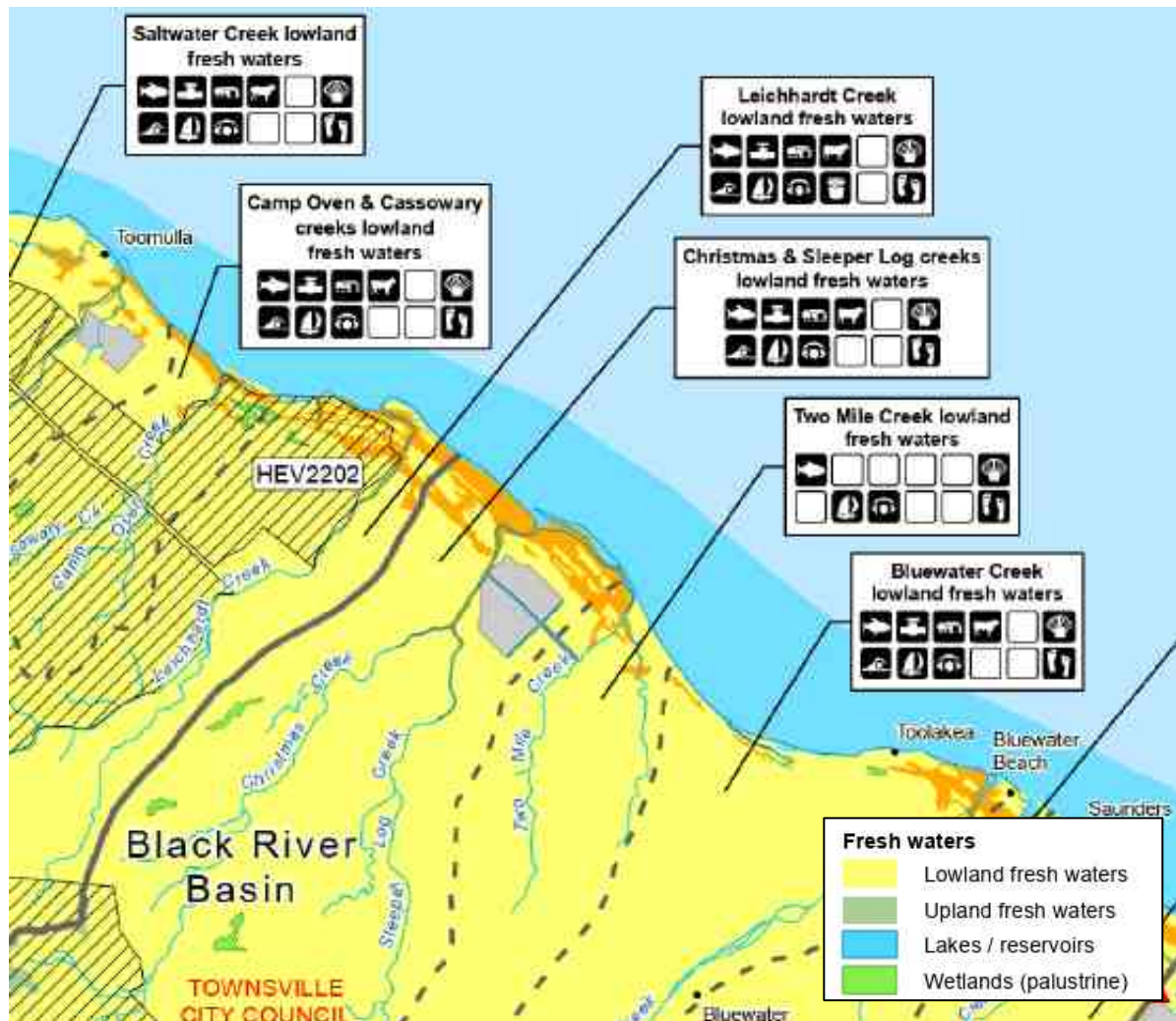


Figure 3. Christmas Creek and Sleeper Log Creek Surface water Schedule 1 Plan (Source: Queensland Government, Environmental Protection (Water) Policy 2009, WQ1171 – Black River Basin (Basin 117))

Table 1. Water Quality Objectives for Black River Catchment - other lowland fresh waters (Source: Queensland Government, (2013), Environmental Protection (Water) Policy 2009, Black River Basin Environmental Values and Water Quality Objectives, Basin No. 117, Table 2 excerpt)

Black River catchment - other lowland fresh waters	Aquatic ecosystem—moderately disturbed (MD)	• ammonia N: <20 µg/L^{b, c, k} • oxidised N: <60 µg/L^{b, c, d, k} • dissolved inorganic N (DIN): <80 µg/L^{b, c, k, l} • organic N: <420 µg/L^{b, c, k} • total N: <500 µg/L^{b, c, k} • filterable reactive phosphorus (FRP): <20 µg/L^{b, k} • total P: <50 µg/L^{b, k} • chlorophyll a: <5 µg/L^k • dissolved oxygen: 85%–110% saturation^{a, k} • turbidity: <50 NTU^k • suspended solids: <10 mg/L^k • pH: 6.5–8.0^{f, k} • temperature: nd^{h, l} • macroinvertebrates: nd^l • fish: nd^l • toxicants: refer to toxicants row later in this table • sodium (Na): <11 mg/L^f • calcium (Ca): <5 mg/L^f • magnesium (Mg): <4 mg/L^f • bicarbonate (HCO₃): <40 mg/L^f • chloride (Cl): <14 mg/L^f • sulfate (SO₄): <2 mg/L^f • electrical conductivity (EC): <98µS/cm (75th percentile)^{g, f} • hardness: <29 mg/L^f • alkalinity: <33 mg/L^f • silica (SiO₂): <21.1mg/L^f • fluoride (F): <0.110 mg/L^f • sodium adsorption ratio (SAR): 0.60–0.95^f

4.2 TOPOGRAPHY

Site contours have been obtained from Elvis Spatial in addition to site commissioned LiDAR. Overland flow for the site and surrounding area is shown in and **Figure 4**.

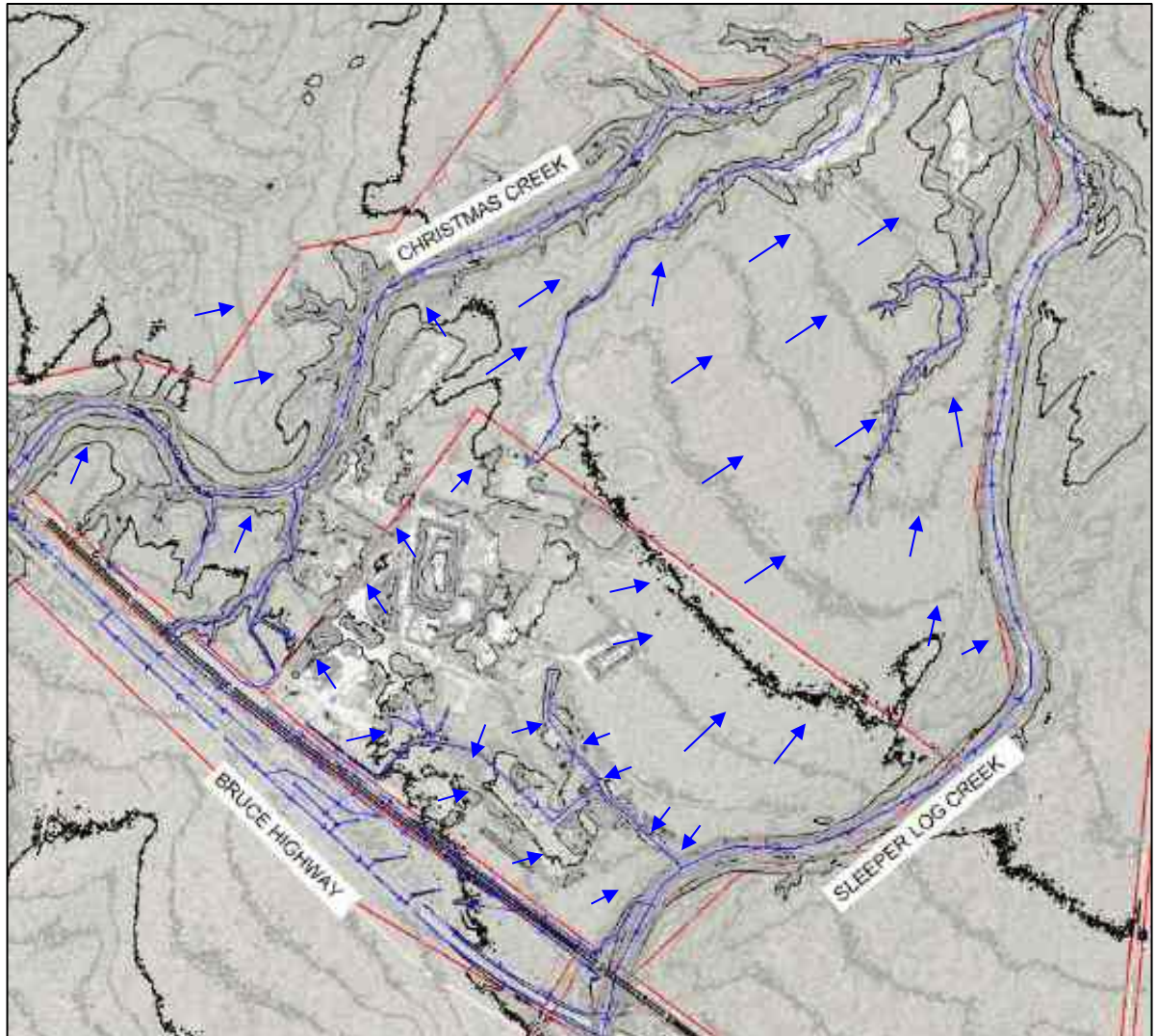


Figure 4. Existing overland flow directions

4.3 EXISTING STORMWATER PONDS

From previous Development Application reporting documents, stormwater catchments areas and ponds are as show in **Figure 5**. Ponds 1, 2 and 4 are freshwater ponds whilst Pond 3 is a leachate pond. Ponds indicated on the plans are still located on site and generally as shown. Stormwater is collected into ponds via drains which discharge into the ponds. Refer to **Figure 6** for existing swale drain locations.

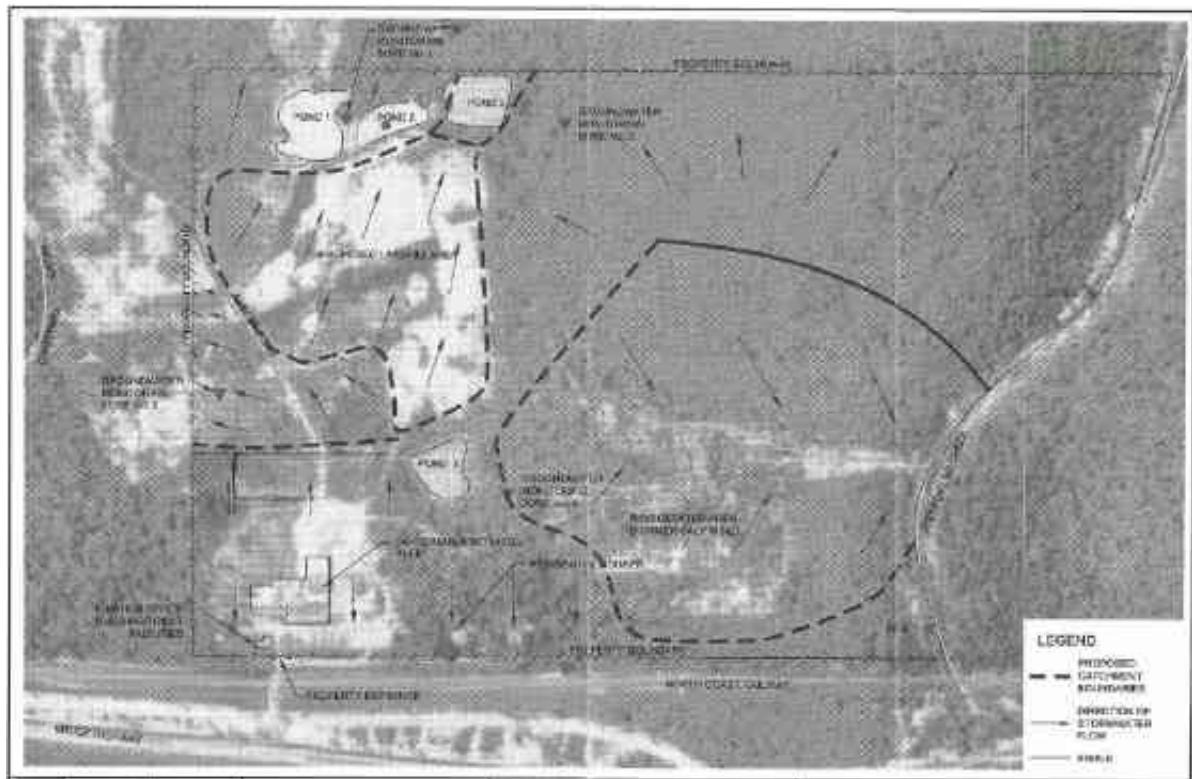


Figure 5. Existing stormwater catchments (Source: GHD Development Application Report (2003), Figure B4)

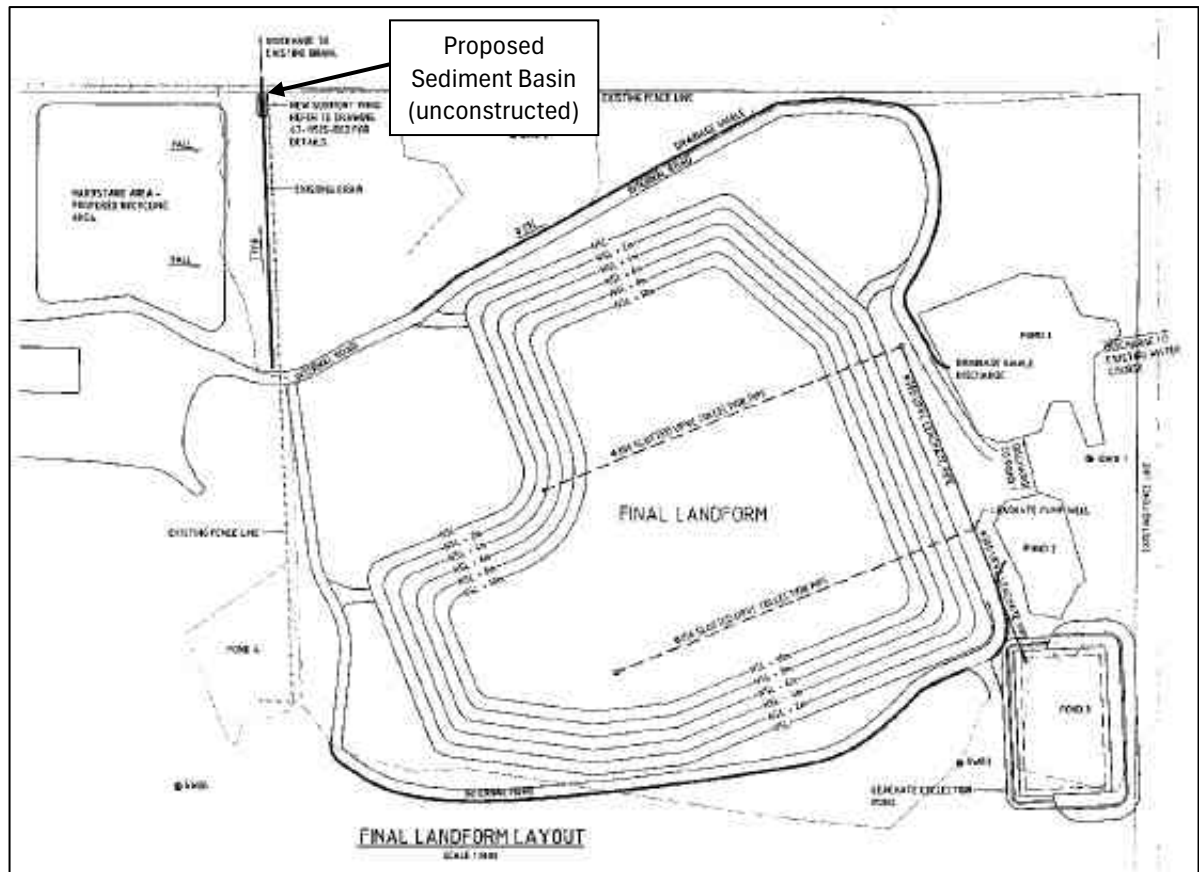


Figure 6. Final Landform layout (Source: GHD Development Application Report (2003), DRG 42-11525-D03)

From the final landform layout it is noted that a sediment basin was proposed along the northwestern site boundary. It is noted from aerial imaging and information provided by the applicant the proposed the sediment basin along the northwestern boundary has not been constructed.

4.4 EXISTING CATCHMENTS

From available Lidar of the site, concentrated stormwater from the working areas of the site discharge from the site at three different locations as follows:

- Pond 1 & 2 (88,953m²)– Northern boundary to Christmas Creek via unnamed order 1 Stream
- Pond 3 (157,116 m²) – Eastern boundary to Sleeper Log Creek

Refer to **Figure 7** or **Appendix A** for catchment areas and for larger view of watercourses.

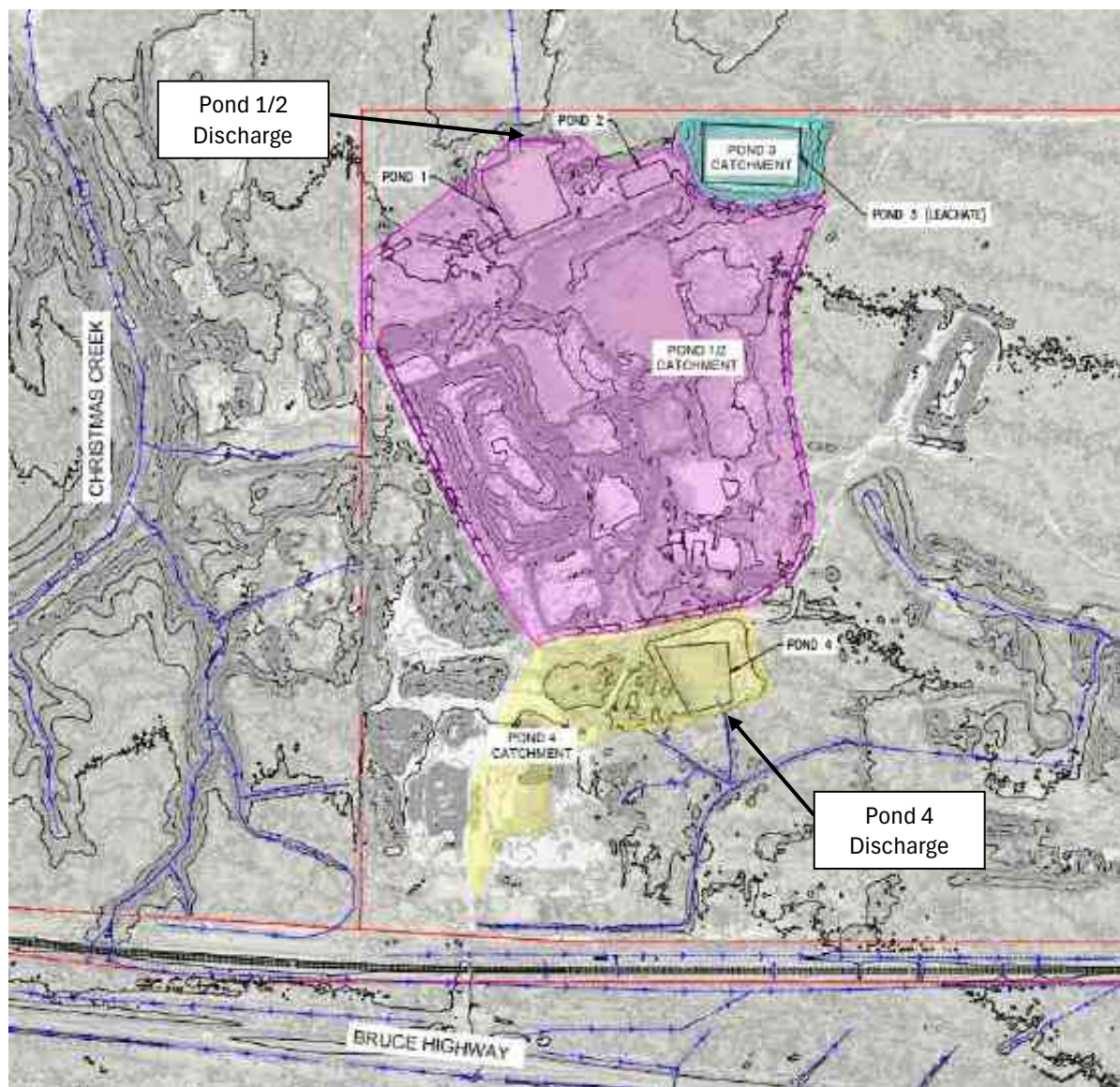


Figure 7. Existing stormwater catchments

Four ponds currently exist on the site as shown in **Figure 7**. Two ponds are located in the northwestern area of the site (Pond 1 & 2) and captures runoff from the landfill area which has not come into contact with waste material (i.e. from capped fill and road areas). Pond 3 acts as a leachate pond, whilst Pond 4 collects runoff from the road and battery storage area near the site access. The battery storage area is roofed and stormwater does not come into contact with any waste in the area.

4.5 FLOODING

From the Townsville Flood Information Map the site is affected by the 1% AEP. The flooding is primarily contained within existing ponds and watercourses /flood plains. Refer to **Figure 8** for flood depths.

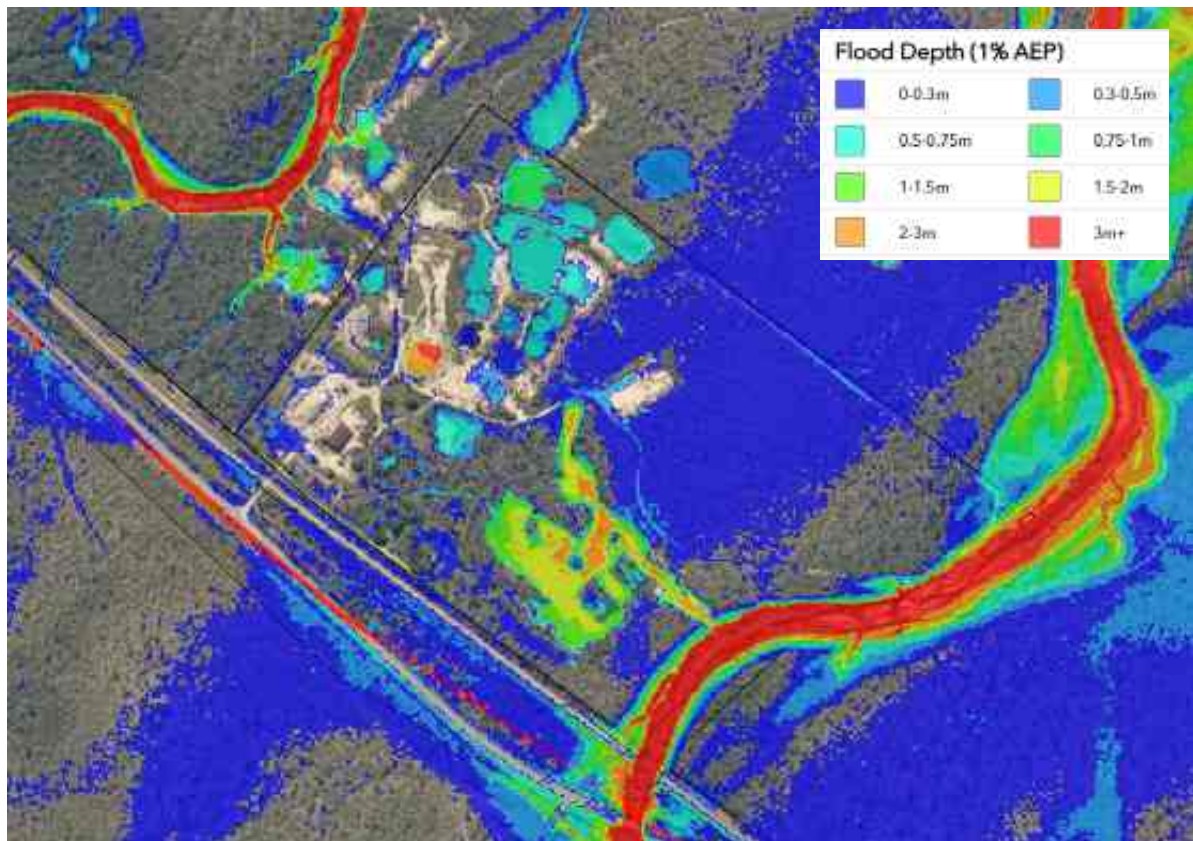


Figure 8. 1% AEP Flood depth (Source: Townsville Flood Information Portal)

5.0 PROPOSED FINAL LANDFORM

The proposed final landform is proposed to be similar to the current approved, however, the working area in the southwest corner is proposed to be filled. From LiDAR of the site this area has already been built up and fill. Refer to **Appendix A** for amended proposed final form.

6.0 SITE STORMWATER MANAGEMENT

The subject site is a landfill. The subject site has ongoing risk of contamination of stormwater with sediment from capped unvegetated landfill area, earth stockpiling and unsealed roads. This stormwater management plan has been designed to minimise the disturbance area outside of the active working area, divert clean water around the site and dirty water to sediment basins. Sediment laden water from the operational area will be treated by sediment traps in the form of sediment basins before being discharged from the site. Leachate produced within the active working area will be collected in a leachate sump before pumping to the leachate pond. Refer to **Section 7.0** of this report for sediment control details and **Section 8.0** of this report for leachate management.

Stormwater run-off at the site will be managed by:

1. Retain existing release points from the site, with catchments to the discharge locations remaining similar to pre-development conditions. No additional or relocated discharge points are proposed;
2. Stormwater management systems so that little to no run-off from outside the working areas enters the areas and no run-off is released from the area prior to treatment;
3. Maintaining a stormwater management system that is suited to the ongoing development of the site;
4. Constructing and maintenance of all the required structures to capture and treat the onsite stormwater (e.g. diversion channels, catch drains, sediment basins and spillways);
5. Minimising disturbed areas that contain materials prone to erosion;
6. Installing sediment and erosion structures that will control the movement of sediment in areas prone to erosion;
7. Regular maintenance inspections of all the associated structures;
8. Using the stormwater captured in the sediment basins for dust suppression;
9. Recycling the water from the sediment basins in the composting process; and
10. Retaining spill kits on site and training of all staff in the use of the kits.

7.0 SEDIMENT CONTROL

7.1 PROPOSED SITE DRAINAGE AND SEDIMENT BASIN CATCHMENTS

The working area of the subject site is proposed with remain relatively the same. Proposed sediment basin catchment areas are shown in **Figure 7**. Sediment basins will be designed to be able to accommodate the catchments areas shown, to ensure the site does not discharge excessive sediment loads from unvegetated areas (e.g. unsealed roads and capped areas before revegetation).

Existing Pond 1 will become Sediment Basin 1 to treat the landfill area. Sediment basin 1 is capable of treating the entire catchment area and existing Pond 2 is not required. Pond 2 will be operated as a sediment basin, however, will also capture emergency overflow from the Leachate Pond. A new sediment basin (Sediment Basin 2) will be constructed to treat the processing area located in the southwestern region of the subject site and Pond 4 will become Sediment Basin 3. The location of sediment basin 2 is proposed to change to accommodate the size of the basin required and take advantage of a natural depression area on the site. All release points shall be monitoring points to ensure any stormwater release complies with water quality objectives.

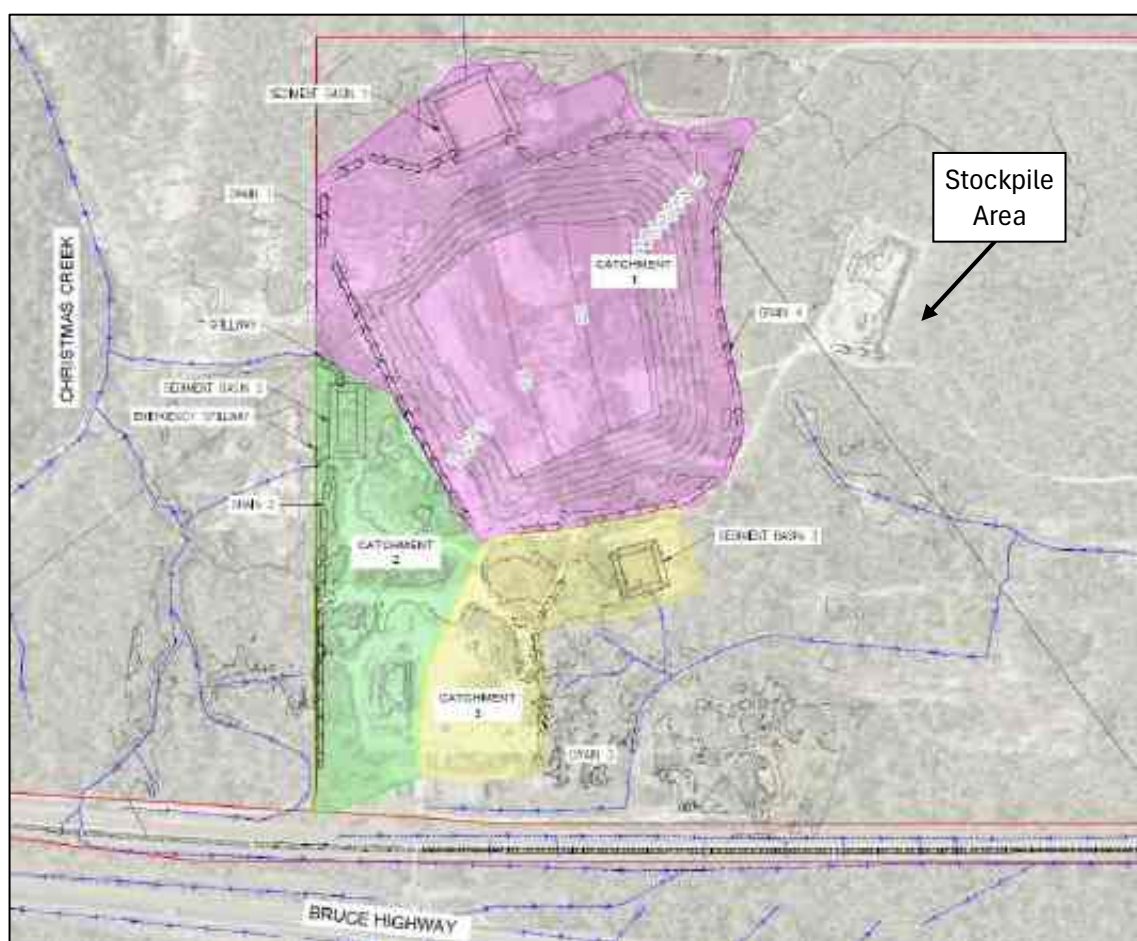


Figure 9. Proposed site plan

Sediment Basin calculations are provided in **Appendix B**. Indicative sediment basin sizes required to meet storage volume requirements is shown in **Figure 9** and is available in **Appendix A**. Existing ponds which are to become Sediment Basin 1 and 3 will likely require little to no amendment with regards to volume capacity. Basin volumes shall be verified to confirm. All basins shall be provided with a 1:6 vehicle access for clean out and a rock lined spillway for discharge. Due to shape of existing basins it is recommended that internal baffles are utilised to increase the effective length to width ratio. Refer to **Figure 10** for example of flow length extension with the use of baffles.

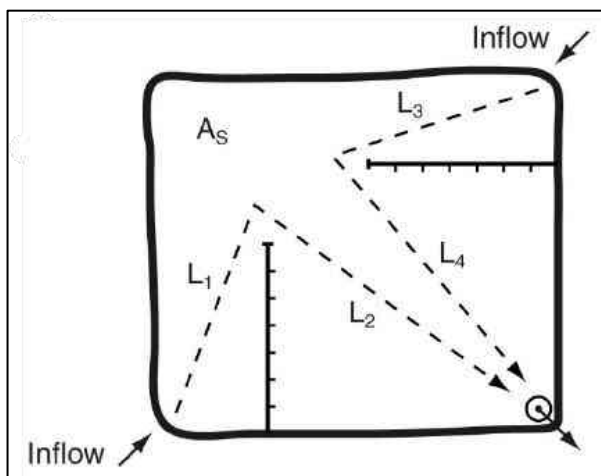


Figure 10. Example of use of baffles to extend effective sediment basin length to width ratio (Source: IECA, *Best Practice Erosion and Sediment Control*, Appendix A, Figure B12 except)

A stockpile area exists to the east of the landfill area. Stormwater from the area generally travels north as overland flow for 150m before departing the site property boundary and does not enter a watercourse for over 400m. Clean water is diverted around the stockpile area. Dirty water from the stockpile area is primarily treated through woven sediment fence and or mulch bund.

7.2 DEVELOPMENT STORMWATER QUANTITY

The working area of the site is proposed to remain relatively the same as previously shown in the existing development application. As such, the site does not proposed increase in stormwater run-off from the subject site. The site discharges to Christmas Creek and Sleeper Log Creek via existing streams and no changes are proposed to discharge locations.

7.3 STORMWATER MANAGEMENT SYSTEM DESIGN

Any upstream stormwater from disturbed areas will be directed to the proposed sediment basins via diversions channels and bunds. The sediment basins will act as a sediment trap for all runoff and will be allowed to settle before releasing the treated water through the spillways and into the downstream **Christmas Creek**. Sediment will be allowed to settle in the sediment basins before being removed and de-watered.

The design of the stormwater management system includes one sediment basin to capture the runoff from a 24 hour, ARI 5 rainfall event. The sediment basin will discharge via spillway which is designed for an ARI 50 rainfall event.

Design of the spillway, catch drains and diversion channels on the site have been analysed using the Rational Method. The guideline utilised for the calculation of the rational method is as per the Queensland Urban Drainage Manual (QUDM) 2017.

$$Q_y = (C_y \cdot t_{ly} \cdot A) / 360$$

Where:

- Q_y = peak flow rate (m³/s) for average recurrence interval (ARI) of “y” years
- C_y = coefficient of discharge (dimensionless) for ARI of ‘y’ years
- A = area of catchment (Hectares)
- t_{ly} = average rainfall intensity (mm/h) for a design duration of ‘t’ hours and an ARI of ‘y’ years
- t = the nominal design storm duration as defined by the time of concentration

The design ARI rainfall event for the spillway is an ARI 50 and ARI 5 for diversion channels.

The following steps have been undertaken for calculation of peak flow rates:

- a) Analysis of possible flow paths based on available contours;
- b) Determination of the time of concentration of each flow path;
- c) Adoption of the flow path with the longest time of concentration (t_c) for design;
- d) Determination of the runoff coefficients; and
- e) Calculation of peak flow rate for structure.

For rural creek catchments, the t_c for the flow path has been estimated using Bransby-Williams' equation as given in QUDM 2017 equation 4.9, as follows:

$$t_c = 58 L / (A^{0.1} \cdot S_e^{0.2})$$

Where: t_c = the time of concentration (min)
 L = Length (km) of flow path from catchment divide to outlet
 A = Catchment Area (ha)
 S_e = equal-area slope of stream flow path (%)

The soil erosion and sediment control design has been based on the following constraints:

1. All runoff will be captured and diverted into a system of drains and banks;
2. All runoff from outside the disturbed areas will be diverted around the site where practicable;
3. Runoff from areas where soil and weathered rock are exposed, will pass through sediment basins prior to entering the stormwater management system;
4. Disturbed soil or extremely weathered rock surfaces will be minimised within the catchment area for the stormwater management system;
5. All sediment basins will be **Type D** sediment basins;
6. The stormwater storage capacity on site will be greater than a 24 hour, ARI 10-year event in alignment with Queensland Government, Stormwater Guidelines for Environmentally relevant activities (ESR/2015/1653);
7. Settling zone has been calculated from the following formula:

$$V_s = A \cdot C_v \cdot R_{(1 \text{ in } 10 \text{ year ARI})}$$

8. The sediment storage zone is equal to 50% of the upper settling volume;
9. The release from the catchment basin will be through its respective spillway into the existing table drain;
10. The emergency spillway structure has been designed with a capacity to control an ARI 50 peak flow rate;
11. The subject site has been assumed to be impervious as a worst-case due to the site being heavily trafficked/compacted; and
12. The water level in the basins will be controlled so that at the end of the dry season, the available capacity of the basins is greater than the runoff calculated for a 24 hour, ARI 5 rainfall event.

7.4 WATER QUALITY TESTING

As the use of chemicals, outside of hydrocarbons is limited, exposed soils are the main source of pollutant and as such, water quality testing of release will be restricted to:

1. Total Suspended Solids (TSS) and/or Turbidity; and
2. pH.

All sampling will be conducted in accordance with the Department of Environment and Science's "Monitoring and Sampling Manual" (2018). Sampling will be conducted at the nominated release point/s.

Refer to **Section 7.6.2** below for Water Quality Objectives (WQO) for the site.

7.5 SOIL EROSION AND SEDIMENT CONTROL MEASURES

All sediment basins, catch drains, diversion channels and diversion bunds are to be constructed and maintained as outlined in Soil Erosion and Sediment Plan drawing attached in **Appendix A**. The measures outlined within the plans are consider the minimum requirements for the site and are subject to on-going maintenance and performance criteria's (i.e. WQO).

7.5.1 *Water Reuse*

Water from the sediment basins storage area may be used for dust suppression etc. within the extraction area, however, must be operated as per the maintenance requirements.

7.5.2 *Monitoring and maintenance*

Regular monitoring and maintenance of the sediment basin and associated systems (which prevent clean water entry into the catchment and deliver soil laden water to the sediment basins) are required to ensure compliance with the Environmental Authority, Development Approval. Compliance assessments are the responsibility of the Site Environmental Officer or delegate.

Appendix C contains a "Site Inspection checklist" that requires completion at the following times:

- Monthly during operational periods;
- After each weather event where the rainfall registered at the office exceeds **60 millimetres** (30-minute ARI 1 rainfall event);
- At the cessation of activities at the beginning of each wet season; and
- At the commence of work after the wet season.

7.6 SEDIMENT BASINS OPERATING PROCEDURES

In general, all basins onsite have been designed as **Type D** basins and must be operated with the following parameters:

- The water level in the basins will be controlled so that at the end of the dry season, the available capacity of the basins is greater than the runoff calculated for a 24 hour, ARI 5 rainfall event;
- Within **120 hours** of the most recent rainfall event the **upper settling volume** of all sediment basins must be made available to capture and store stormwater runoff from the next rainfall event;
- Prior to a rainfall event the sediment basin should be fully drained; and
- In between storm events the basin may retain but must be de-watered prior to any storm that is likely to produce runoff.

The following sections outline procedures for review the basin performances and appropriate actions to improve the basins performance should they be necessary. This includes:

- De-watering procedures;
- Decant water quality objectives;
- Sediment basin performance assessment procedures;
- Corrective measures: coagulants and flocculants;
- Sediment basin de-silting procedure; and
- Sediment basin maintenance.

7.6.1 *De-watering procedures*

Type D basins are able to retain water within the basins for use on site, but the basins must be drained prior to any storm that is likely to produce significant (i.e. measurable) basin inflows.

All the primary sediment basins require cleaning out so that their capacity is at the design level, prior to the wet season. Drains that are overgrown with vegetation or silted up require maintenance so that their design capacity is realised. Eroded areas require treatments or the construction of control devices that will prevent that level of erosion occurring again.

7.6.2 Decant water quality objectives

Before water can be discharged from the basin, the water quality being released must comply with all regulatory WQO and requirements. Total Suspended Solids (TSS), water pH, and turbidity have been outlined below in **Table 2**. For details on all other objectives refer to **Table 1** of this report.

Table 2. Water Quality Objectives

	Water Quality Objective	Source
Total suspended solids (TSS)	50mg/L	Queensland Government Guideline: Stormwater and Environmentally Relevant Activities
pH	6.5 - 8.0	Queensland Government, Black River Basin Environmental Values and Water Quality Objectives, Fresh waters (WQ1171).
Turbidity	50 NTU	Queensland Government, Black River Basin Environmental Values and Water Quality Objectives, Fresh waters (WQ1171).

7.6.3 Sediment Basin Performance assessment procedures

A performance review should be carried out on all basins. Although it is desirable for sediment basins to achieve the desired water quality standard during every storm, circumstances can exist that will cause uncontrolled discharges to exceed these standards.

Sediment basin is not designed to achieve specific water quality; rather, designed to either capture and treat a specific volume of runoff, or to treat discharges up to a specified peak flow.

Sediment basin shall be monitored by the Site Environmental Officer or a suitably trained site personnel member. The operator shall regularly inspect the critical design features of the basin and review the basin's performance against its design expectations. If a water quality failure is observed, then the operator should endeavour to take multiple samples during these releases to document the durations of such exceedances. Adjustments to the basin, and the basins operations, should occur after each observed failure. The use of such adaptive management practices is critical

to achieving the optimum performance of any sediment basin. **Figure 11** below outlines the sediment basin performance assessment process.

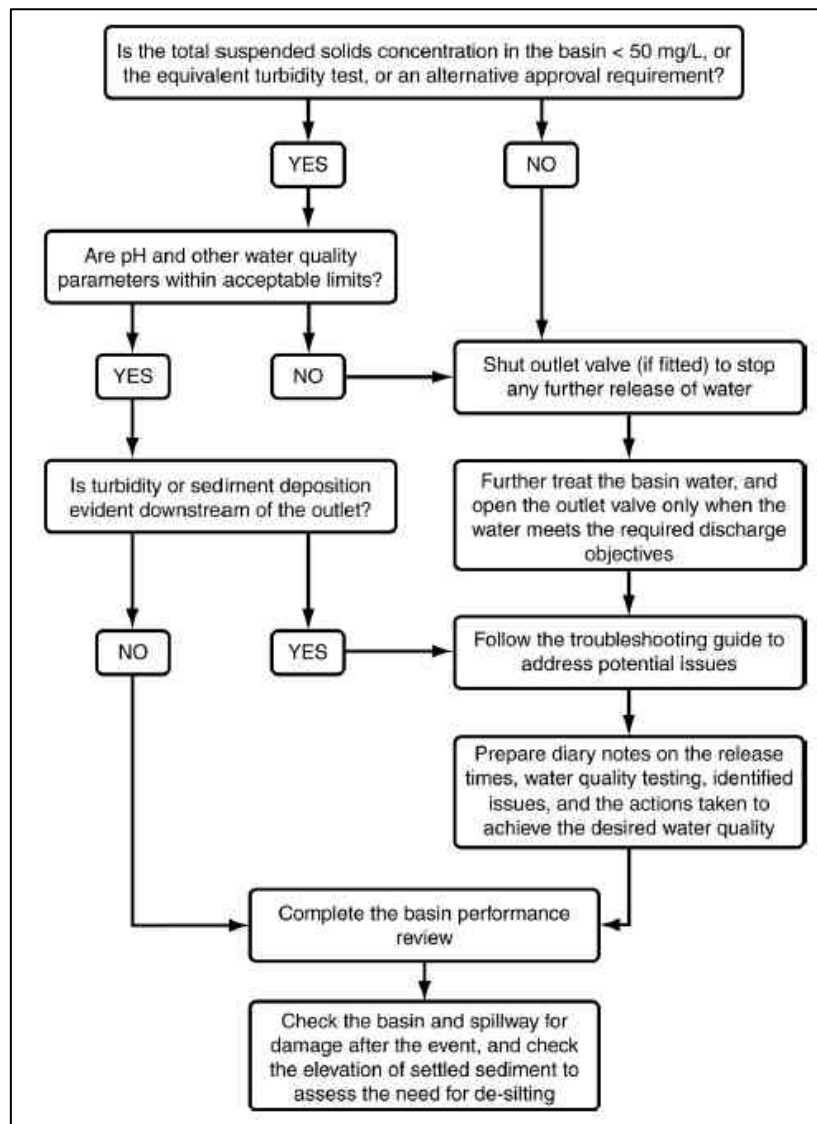


Figure 11. Basin performance assessment process

7.6.4 *Corrective measures: coagulants and flocculants*

If the water being discharged does not satisfy the specified water quality objectives, chemical treatments may be used as a means of promoting settling within the sediment basin.

7.6.4.1 *Coagulation*

Clay is the predominant particle type found in suspension within runoff captured by sediment basin. Clay particles are extremely small (less than 0.002 mm in size) and will not settle readily, if at all, even in still water.

When negatively charged clay articles and other colloids are suspended in water, they tend to repulse each other. The cumulative effects of the repulsion of a vast number of small particles prevents their aggregation into larger, heavier particles that would settle more readily.

A coagulant is utilised to neutralise or destabilise the charge on clay or colloidal particles. Most clay particles in water are negatively charged and therefore a positive ion (cation) can be used as a coagulant.

Charge neutralisation in water can occur very rapidly; therefore, mixing is important for effective treatment of turbid water. After a short time, the ions form hydroxide gels which trap particles, or bridge between particles, to create a floc that may settle.

There is possibility of overdosing with coagulants and building up excess positive charge, hence complying within the optimum dosage range is critical. When a cationic coagulant is overdosed, the clay and colloidal particles will take on positive charge and repel each other and limit any settling.

The dosage range of a coagulant will vary depending on the site water chemistry. Different coagulants also have an optimum pH range over which they are effective and pH buffering may be required depending on the coagulant and water chemistry.

The flocs generated by coagulation are generally small and compact. They can also be broken down under high velocity or high shear conditions.

7.6.4.2 Flocculation

Flocculation is a process of contact and adhesion whereby the particles of a dispersion form larger-size clusters. Flocculation can occur through the use of coagulant, flocculant, or both. Coagulants achieve flocculation through charge neutralization whereas flocculants physically bind clay and colloidal particles together.

The use of natural and synthetic polymeric flocculants can be used to generate larger more stable flocs and may reduce treatment times. This is achieved by brining dispersed particles together increasing the effective particle size. Flocculants can be used alone, or in combination with coagulants.

It is also noted that, at lower pH, the toxicity increases with an effect of possible major concern being the coagulation of mucus on the gills of fish. Please note, from the Australian and New Zealand Environmental and Conservation council (ANZECC) guideline to protect 99% of species which applies to HEV waters, aluminium must be less than **2.1µg/m**.

7.6.4.3 Selection of coagulants and/or flocculants - Jar testing

The purpose of jar testing is to select appropriate coagulants and/or flocculants along with determining their optimum dose rates. The recommended testing procedure is described below.

Jar tests are conducted on a four or six-place gang stirrer. Jars (beakers) with different treatment programs or the same product at different dosages are run side by side, and the results compared to an untreated beaker. Where access to a laboratory is not practicable, field test can be undertaken following a similar process to that described in the procedure with stirring and settling timeframes in different beakers. Testing should be undertaken by a suitably qualified person in the use of coagulants and flocculants.

Preference is given to the use of raw water collected on site which is representative of runoff (including water temperature, which affects settlement characteristics) during the life cycle of the sediment basin. Where raw water is not available, representative soil from the site can be mixed with water to create indicative runoff water chemistry. To create a water sample from soil, a water/soil solution procedure is provided in **Appendix D**.

Sometimes both a coagulant and flocculant are required to achieve the desired treatment efficiencies. In these situations, the coagulant should be tested first, followed by the flocculant.

For the sediment basin, a Floc Performance Report should be prepared to determine a suitable chemical and dose rate for the sediment basin. A Floc Performance Report template is provided in **Appendix D**. A single floc report for multiple sediment basin on a site should only be undertaken when soil properties are uniform for all basins.

7.6.4.4 Application of coagulants and flocculants

Mixing of coagulants and flocculants is critical to the successful treatment of turbid water. Guidance from chemical suppliers or a suitably qualified sediment basin operator shall be sought for appropriate application methods including safety precautions.

7.6.5 De-silting procedures

An appropriately marked (e.g. painted) **de-silting marker post must be installed in the basin to indicate the top of the sediment storage zone.**

The basin must be de-silted if:

- the next storm is likely to cause the settled sediment to rise above this marker point; or
- settled sediment has exceeded 90% of the total nominated sediment storage volume; or
- the settled sediment is already above this marker point.

7.6.6 *Sediment basin maintenance*

Sediment basin maintenance shall be carried out as follows:

1. Inspect the sediment basin during the following periods:
 - i. During construction to determine whether machinery, falling trees, or construction activity has damaged any components of the sediment basin. If damage has occurred, damaged is to be repaired;
 - ii. After each runoff event. Inspect the erosion damage at flow entry and exit points. If damage has occurred, make the necessary repairs;
 - iii. At least weekly during the wet season (**January to March**) otherwise at least fortnightly; and
 - iv. Prior to, and immediately after, periods of 'stop work' or site 'shut down'.
 2. Clean out accumulated sediment when it reaches the marker board/post and resort the original storage volume. Place sediment in a disposal area or, if appropriate, mix with dry soil on the site.
 3. Do not dispose of sediment in a manner that will create an erosion or pollution hazard;
 4. Check all visible pipe connections for leaks and repair as necessary;
 5. Check fill material in the dam for excess settlement, slumping of the slopes or piping between the conduit and the embankment; make all necessary repairs;
 6. Remove all trash and other debris from the basin and rise; and
- Submerged in flow pipes must be inspected and de-silted (as required) after each inflow event.

8.0 LEACHATE MANAGEMENT

Leachate is generated as a result of fluid migration through the landfill waste mass, primarily driven by infiltration processes. As water percolates through the waste, it interacts with solid phases and undergoes physicochemical transformations, resulting in the mobilisation and dissolution of organic and inorganic constituents. This produces a contaminated liquid phase referred to as leachate.

The quality and composition of leachate are highly variable and controlled by a range of factors, including waste composition, degree of decomposition, moisture content, and the prevailing biochemical environment within the landfill. Temporal variation is also significant, with leachate typically evolving from high-strength, biodegradable compositions in early stages to more stabilised, refractory compositions with increasing waste age.

- Leachate generation is influenced by multiple hydrological inputs, which may include:
- direct precipitation infiltrating the landfill surface
- moisture released during waste degradation processes (including biochemical and consolidation-related mechanisms)
- surface water ingress resulting from inadequate runoff control or stormwater diversion
- groundwater intrusion where hydraulic gradients permit

Assessment of the existing cell liner and drainage system has been undertaken to determine its appropriateness. The existing cell liner and drainage layer has been assessed to determine if the existing cell liner (300mm clay liner with a hydraulic conductivity of 1.0×10^{-9} m/s) and leachate collection layer (300mm free draining material, permeability of 3×10^{-3} m/s adopted) are suitable for continued use and capable of meeting the current design and environmental performance requirements for effective leachate management.

The site is existing with part of existing Cell 1 constructed (referred to as Stage 1 on plans). The remainder of the landfill area will be staged in 9 stages (referred to as Stages 2 to 10 in **Appendix A**). Each of the remaining stages is proposed to be 1ha in area.

8.1 LEACHATE COLLECTION SYSTEM

Leachate will be managed through a primary leachate collection and removal system constructed at the base of the landfill cell. The cell floor will be graded to achieve a minimum 1.5% crossfall to the collection sump positioned at the low point of the cell (generally from southwest to northeastern

corner of the stage). The sump will comprise a localised excavation integrated into the cell floor and fitted with a vertical riser to facilitate leachate extraction.

The leachate collection layer consists of a minimum 300mm thick, high-permeability granular drainage medium. A geotextile separation layer will be installed above the drainage layer to prevent migration of fines from the overlying waste and to maintain the long-term hydraulic performance of the system.

8.2 LEACHATE EXTRACTION

The leachate sump will contain a DN1050 concrete riser pipe. A submersible pneumatic pump will be utilised to extract leachate via the rise pipe to the leachate pond.

8.3 LEACHATE PONDS

Evaporation of leachate from the active area, leachate pond and spray system is the primary mechanism of loss from the system. Pond evaporation is based on the pond area and evaporation data from Bureau of Meteorology (BoM) from Townsville Aero Weather Station 032040. The adopted evaporation rate is the mean evaporation rate multiplied by a pan coefficient of 0.7.

The existing leachate pond has an approximate area of 3,375m² and an operating capacity of 7,016m³. The leachate pond is designed to have 0.5m of freeboard before overtopping into the adjacent sediment basins.

8.3.1 *Forced evaporation via pond sprinklers*

Sprinklers have historically been employed at the site to assist leachate pond evaporation. Sprinklers spray leachate back over the pond.

8.4 LEACHATE GENERATION

The landfill will be used for construction and demolition waste, as such it is expected to have very low organic content, minimal biodegradation and limited long-term leachate generation. Leachate is predominantly from initial wetting, rainfall infiltration and short-term drainage.

Nevertheless, as a worst case to quantify leachate generation, a numerical modelling approach was adopted using the Hydrologic Evaluation of Landfill Performance (HELP) framework developed by the United States Environmental Protection Agency (USEPA), version 4.0.1.

The HELP model represents a quasi-two-dimensional simulation of water movement through layered landfill systems under variably saturated conditions. It incorporates climatic inputs (precipitation, temperature, solar radiation, humidity, wind speed etc.), material properties (hydraulic conductivity, porosity), and landfill configuration to simulate key hydrological processes. These include vertical percolation, lateral drainage within collection layers, temporary storage within landfill components, and leachate discharge from the system.

The model is commonly applied at the conceptual and preliminary design stages to evaluate drainage performance and to compare alternative landfill configurations. However, it is important to recognise that HELP is inherently a probabilistic tool and does not explicitly incorporate all site-specific mechanisms affecting leachate generation. In particular, predictions are largely governed by assumed material properties and infiltration processes (including cover system performance), and do not directly account for preferential flow paths, operational practices, or long-term degradation variability unless specifically calibrated. Consequently, the outputs of the HELP model should be interpreted as indicative estimates rather than precise predictions.

8.4.1 *HELP model inputs*

The rainfall data used in the modelling was derived from the SILO Yabulu QLD Nickel Weather Station 032050, which is approximately 7 km from the site and has been in operation since 1919. Climate data (wind speed and humidity) not available at Yabulu QLD Nickel Station data has been substituted with Townsville Aero (Station 032040) located approximately 30km from the site. As worst-case scenario it is assumed that no rainfall runs off the area. To account for long term variability (extended wet/dry years) and waste saturation behaviour, the model has been run for a continuous 30 year period from 1 January 1996 to 31 December 2025. The accounts for cumulative antecedent moisture conditions, structural waste field capacity, and hydraulic lag within the cell matrix, ensuring peak predictive leachate generation is captured after steady-state saturation is achieved.

Table 3. Landfill profile

Layer	Thickness	Comments
Waste	10m	MSW with channelling (HELP Default)
Drainage layer	300mm	Gravel (HELP Default) Hydraulic conductivity = 3.00×10^{-3} m/s
Low permeability compacted clay	300mm	Liner soil (HELP Default) Hydraulic conductivity = 1.0×10^{-9} m/s

8.4.2 HELP Results

HELP modelling was undertaken using 30 years of data from 1996 to 2025. The average annual totals are summarised in **Table 5**. The results indicate that 72.44% of rainfall becomes leachate, 24.19% is lost to evaporation, and 2.68% percolates through the cell liner. Long-term percolation is expected to be minor and within acceptable limits. Refer to **Appendix E** for the HELP modelling results.

Table 4. Average annual totals for Years 1 to 30

	Average Annual Totals for Years 1 - 30*			
	(millimetres)**	[std dev]	(cubic meters)	(percent)
Precipitation	1,469.00	[629.03]	14,690.0	100.00
Runoff	0.000	[0]	0.0000	0.00
Evapotranspiration	355.417	[111.258]	3,554.2	24.19
Subprofile1				
Lateral drainage collected from Layer 2	1,064.0763	[547.9712]	10,640.8	72.44
Percolation/leakage through Layer 3	39.427138	[24.616432]	394.3	2.68
Average Head on Top of Layer 3	18.8443	[22.9434]	---	---
Water storage				
Change in water storage	10.0766	[112.0203]	100.8	0.69

**Note: head on liners expressed in cm

Where bentonite or low permeability clay with a hydraulic conductivity less $1 \times 10^{-9} \text{m/s}$ cannot be sourced, the clay liner must be reassessed to determine minimum thickness based on liner material properties and/or determine if a geosynthetic clay liner (GSL) is required.

8.5 LECHATE POND WATER BALANCE

A deterministic mass balance equation is utilised to model the hydraulic performance of the leachate pond. The adopted equation for the change in storage volume over a specified design period is expressed as follows:

$$\Delta V_S = V_L + V_R - V_E - V_D$$

Where:

- **ΔV_S** - Change in Storage Volume (m^3): The net volumetric accumulation or depletion of liquid within the containment facility over the evaluation period. For conservative design sizing, this represents the minimum required active storage capacity.
- **V_L** - Leachate Inflow (m^3): The total volume of primary leachate generated within the landfill containment cells and transferred to the storage pond, derived directly from predictive hydrological modelling (e.g., HELP model outputs).
- **V_R** - Direct Precipitation (m^3): The volumetric contribution of rainfall landing directly onto the open surface area of leachate pond footprint, calculated as the product of the design storm depth (m) and the operational pond surface area (m^2).
- **V_E** - Evaporative Losses (m^3): The volume of liquid lost to the atmosphere via pan evaporation across the exposed surface area of the storage facility, adjusted by the appropriate local pan coefficient.
- **V_D** - Disposal and Treatment Volume (m^3): The total volume of leachate actively abstracted from the pond. The site only proposed to utilise forced evaporation through spraying to enhance the evaporation rate of the pond.

8.5.1 Water balance Assumptions

A water balance has been undertaken to determine if any modification to the existing pond or additionally leachate storage is required onsite. The following assumptions have been made with regards to the water balance:

- No leachate is lost from the system other than through evaporation. As part of the storage balance, any leachate that cannot be transferred to the leachate ponds remains in the landfill cells.
- A monthly timestep has been selected to accurately model the seasonal variation Townsville's tropical wet-dry cycle.
- In accordance with the Queensland Government Guideline for landfill siting, design, operation and rehabilitation, the leachate collection and removal system will be operated to ensure that the leachate head above the base liner does not exceed 300 mm, thereby

limiting hydraulic loading on the liner and maintaining system performance. In the water balance it is assumed all leachate goes to the pond and there is no storage capacity in the drainage layer even after a net zero month.

- All leachate generated within the landfill is collected and can be transferred to the ponds.
- No run-on from areas that are not landfilled enters the leachate collection system and no groundwater flows into the leachate collection system.
- Longterm leachate production from HELP modelling over a 30 year period based on the previous 30 whole calendar years (1996 to 2025).
- Waste has been modelled as the topmost layer for a worse-case scenario.
- It has been assumed that a negative net volume is not possible (i.e. pond cannot have less than no water) and any negatives values have been zeroed.
- The total depth of the pond including freeboard is 3m. The adopted top dimensions of the pond are 48m wide by 78m long with a batter of 1 in 3. Freeboard has been taken as 0.5m. At the spillway crest, the pond area has been taken to be 45m wide and 75m long.
- Total volume before overflow in the leachate pond is 7016m³.
- Landfill working area in each stage is no greater than 1ha. Previous stages are assumed to have a final cap applied and not contribute additional leachate due nature of waste (construction and demolition waste).
- Pan evaporation coefficient of 0.7.
- Scenario 1:
 - Forced evaporation via sprinklers over the pond is assumed to have an effectiveness of 1.3 times the pan evaporation rate.
- Scenario 2:
 - Generally, sprinklers are not used to spray over the landfill area, however, to assist in attenuating high intensity or extended durations of rainfall a scenario has been assessed to determine the effects.
 - Adopted additional spray trigger levels were set at a pond level of 2.15m for moderate spray over the landfill area to evaporate 700m³ per month which was increased to high level spraying to release 900m³ per month if the leachate levels in the leachate levels reached 2.4m in the leachate pond.

Monthly climate statistics for Yabulu is not available from BoM, as such Townsville Aero (Weather Station 032040) has been adopted for the water balance. Climate data obtained from the BoM is provided in **Table 5**.

Table 5. Townsville Aero monthly rainfall statistics (1940 to 2026)

Statistics	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Rainfall													
Mean rainfall (mm)	274.4	312.4	188.5	67.4	34.1	28.3	18.6	15.8	8.8	23.2	80.7	130.3	1162.3
Highest rainfall (mm)	1141.7	1198.0	1004.0	549.2	180.8	111.4	173.7	258.2	84.4	202.8	345.3	487.2	2050.8
Date	1951	2025	2631	2600	1877	2007	1862	1998	2015	1876	2005	2034	2024
Lowest rainfall (mm)	8.8	4.2	2.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	387.0
Date	1947	1989	2009	1947	2021	1948	2002	2025	2024	2002	1950	2001	2015
Decile 1 rainfall (mm)	48.2	64.7	16.4	3.0	1.0	0.4	0.2	0.0	0.0	1.3	4.0	16.7	
Decile 5 (median) rainfall (mm)	219.2	246.0	141.2	30.4	18.3	9.8	3.8	3.8	2.2	12.0	30.9	79.2	
Decile 9 rainfall (mm)	577.3	643.8	428.3	173.1	88.1	57.8	44.0	44.8	30.8	81.4	144.4	352.3	
Highest daily rainfall (mm)	548.8	317.0	300.5	271.0	120.8	89.0	89.8	154.2	64.0	89.4	132.8	205.8	548.8
Date	11 Jan 1985	01 Feb 1977	03 Mar 1948	04 Apr 2000	10 May 2017	06 Jun 1985	10 Jul 2012	30 Aug 1998	20 Sep 2018	14 Oct 1878	21 Nov 1950	31 Dec 2009	11 Jan 1988
Mean number of days of rain	14.8	15.5	12.8	7.9	5.9	4.3	3.2	2.6	3.4	4.7	7.2	9.8	91.8
Mean number of days of rain > 1 mm	11.7	12.7	9.7	5.3	3.9	2.4	2.0	1.4	1.2	2.8	4.0	7.4	65.1
Mean number of days of rain > 10 mm	5.9	8.8	4.1	1.9	0.9	0.5	0.4	0.4	0.3	0.8	1.8	3.1	26.0
Mean number of days of rain > 25 mm	3.3	3.5	2.3	0.9	0.3	0.2	0.1	0.2	0.1	0.2	0.7	1.5	13.0

It should be noted that 2025 had the highest February, March and annual rainfall on record at the Townsville Aero station which has records between 1940 to 2026. Rainfall statistics are not available for Yabulu . Rainfall statistics for Townsville Aero are shown in **Table 5**. It is noted that the 2025 wet period was longer in duration than typical.

8.5.2 Water balance results

The water balance is shown in **Figure 12** with values presented in **Appendix F**, where the orange represents site operations without leachate management utilising spray over the pond and the purple In represents if additionally spraying back over the landfill area was employed. The total pond volume including contingency is 7,016m³ (green). The adopted storage zone is 2.15m deep or 5,240m³ (maroon).

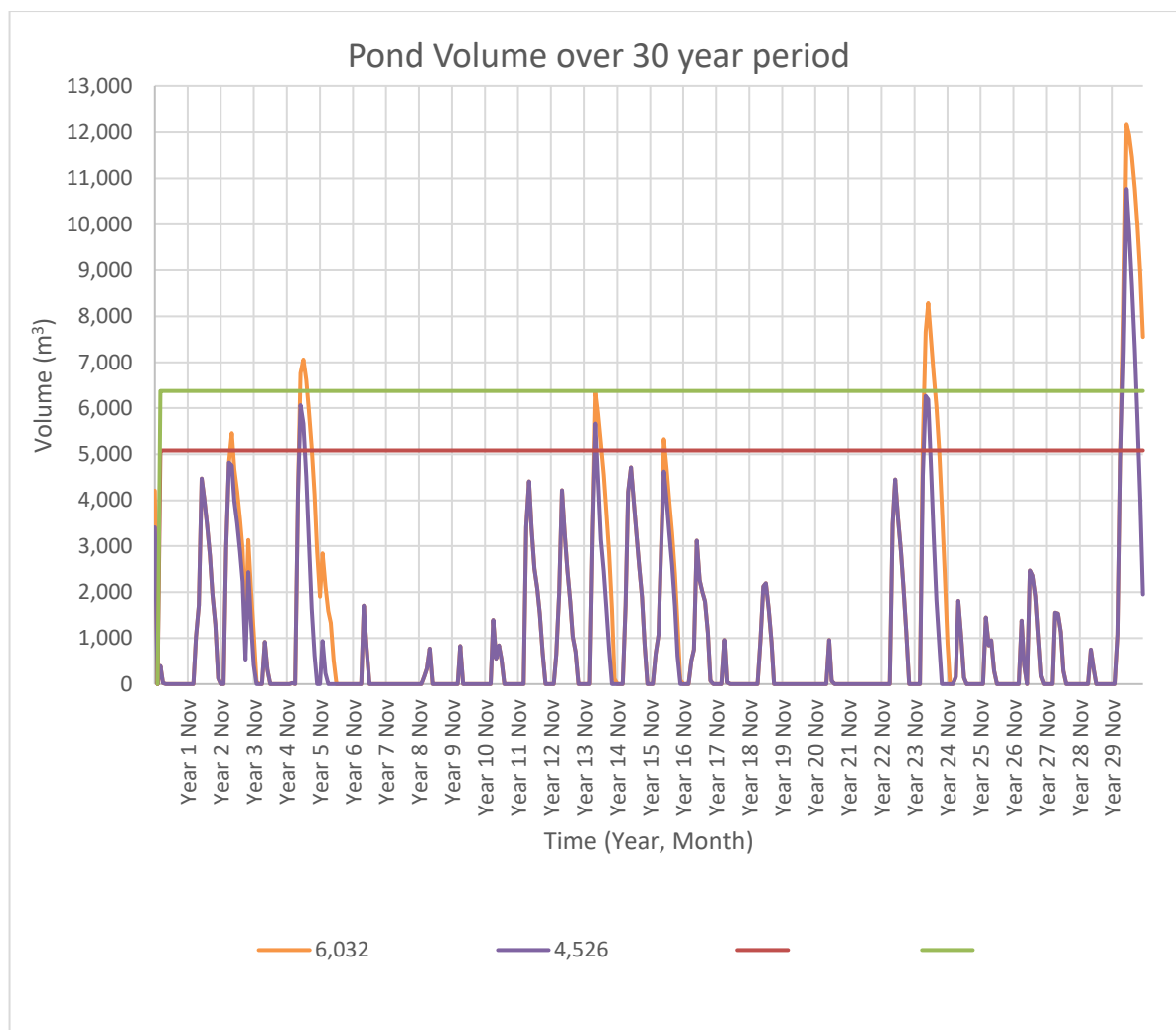


Figure 12. Water balance (1996 to 2025 data)

In scenario 2, the peak is in the order of twice the magnitude of other peaks. It would not be practical to design to accommodate this peak. Based on the monthly water balance modelling, the 90th and 95th percentile storage volumes (excluding periods with no net positive balance) were estimated as follows:

- **Scenario 1 (pond spraying only):**
 - P90 = 4,213 m³
 - P95 = 6,031 m³
- **Scenario 2 (pond spraying + landfill spraying):**
 - P90 = 3,3622 m³
 - P95 = 4,622 m³

The total available leachate pond capacity, excluding freeboard, is approximately **7,016 m³**. The results indicate that under both scenarios, the leachate pond has sufficient capacity to contain the

95th percentile volume. As shown in Figure 12, Scenario 1 demonstrates that the existing leachate pond, in combination with forced evaporation via pond-based spraying, is capable of managing the majority of wet weather conditions.

Scenario 2, which incorporates additional spray irrigation across the landfill surface, provides enhanced system performance by:

- Reducing peak storage volumes during prolonged wet periods
- Limiting accumulation during consecutive high rainfall months
- Promoting more rapid recovery of storage levels following wet seasons

Under extreme conditions (e.g. the Year 30 sequence in the modelling dataset, 2025 rainfall data), implementation of trigger-based landfill spraying reduced peak storage volumes by approximately 1,400 m³. In addition, the inclusion of landfill spraying allows the pond to return to empty prior to the onset of subsequent wet seasons, reducing the likelihood of cumulative storage carryover.

The modelling indicates that:

- Under typical climatic conditions, the system operates within available storage capacity
- Exceedance of total capacity is limited to rare events associated with extreme rainfall sequences or events
- The implementation of operational controls (trigger-based spraying) significantly reduces both the **magnitude** of exceedance and the **duration** of elevated storage such that there is capacity for the next wet season.

It should be noted that the landfill will be used for construction material and will not produce leachate in the same manner or concentrations as a traditional Council landfill would. The risk of leachate overflow is not considered high risk, and overflow has been designed to discharge to neighbouring existing Pond 2 (sediment basin/emergency overflow) then into Sediment Basin 1 before subsequent discharging to an order 1 stream which ultimately discharges into Christmas Creek should an overflow occur.

8.5.3 Mitigation

It is noted from previous reporting that the existing pond design storage depth is 2m with a 1m freeboard. Based on more recent data for a longer duration water balance, to allow for more contingency to cater for extreme event, the storage depth to the spillway crest is to be 2.5m above the base and a minimum 0.5m freeboard should be allowed. The available storage will be able to cater to the 90th percentile month. The buffer is equivalent to a 24hr 1 in 25year storm event over the pond area and will be able to cater to the 95th percentile. It is recommended a pond level marker post is installed to monitor pond levels and trigger additional spray events as discussed above. Leachate pond depth and corresponding volumes are provided in **Figure 13**.

Top of pond bank	Freeboard /air gap	(3.0m 8,154m ³)
Spillway Crest		(2.5m, 7,016m ³)
Trigger 2	Buffer	(2.4m, 6,040 m ³)
Trigger 1		(2.1m, 5,080 m ³)
Pond Base	Storage zone	(0.0m, 0m ³)

Figure 13. Leachate pond depths and capacity

8.5.4 Contingency

The water balance should be validated or updated from time to time by using site operational data. The existing leachate pond capacity shall be verified onsite and spillway crest lifted before Stage 2. This is to test the accuracy of the assumptions in the original modelling and to assess whether the leachate management infrastructure will be adequate to continue to meet the requirements of any relevant approvals and Environmental Protection Act. Should the effectiveness of spray operations be less than assumed consideration should be given to changing from traditional sprinklers to a finer atomisation sprayer to enhance evaporation.

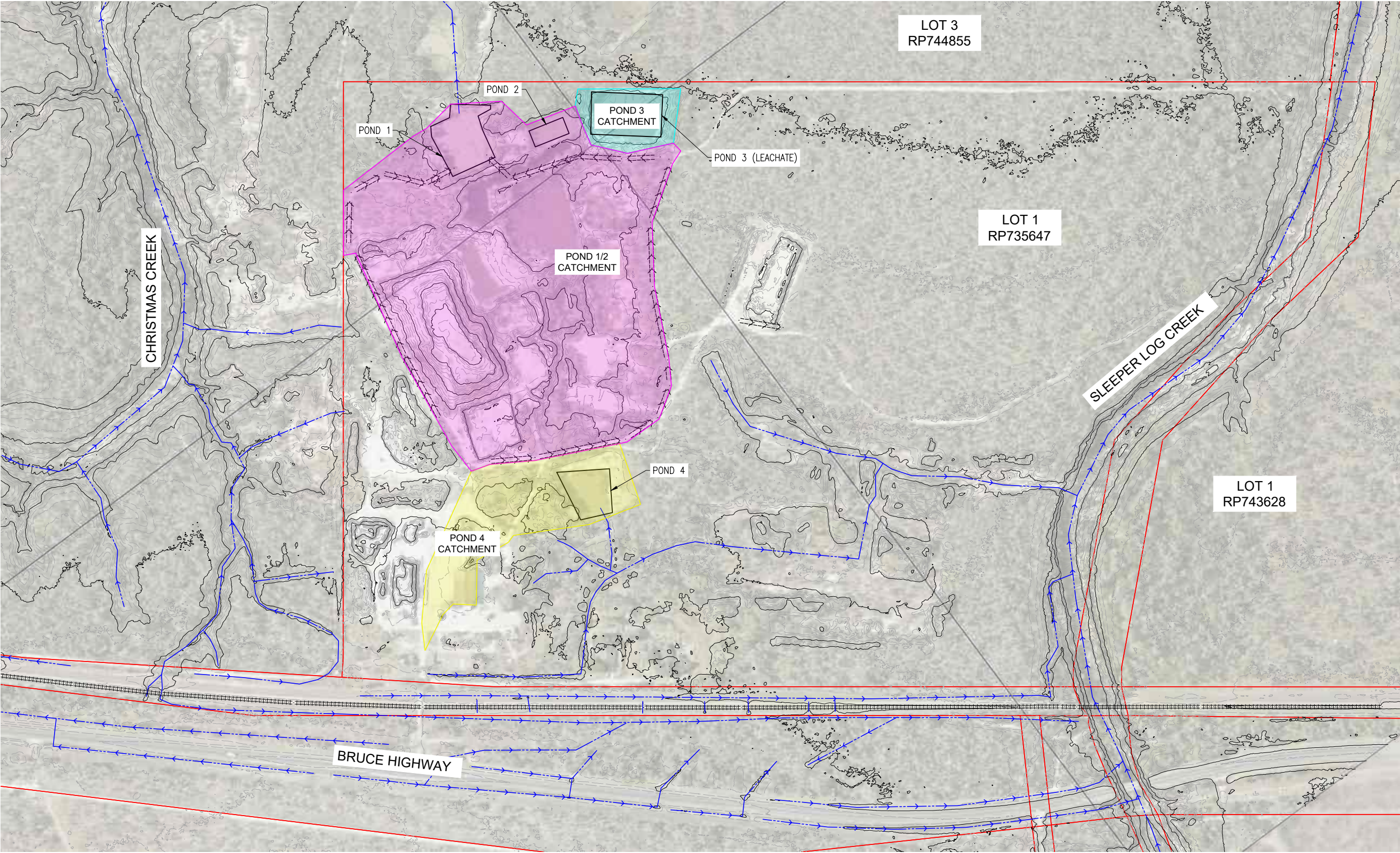
9.0 SUMMARY

The subject site has been assessed for stormwater impacts and has found the following:

- The working area of the site is proposed to remain relatively the same as previously shown in the existing development application.
- Subject site does not propose to significantly increase stormwater run-off from the site.
- Stormwater discharges to Christmas Creek and Sleeper Log Creek via existing streams and no changes are proposed to discharge locations.
- Sediment basins:
 - Three sediment basins are required to treat run-off for sediment prior to discharge from the subject site.
 - Existing Ponds 1 and 4 shall be modified and utilised as the sediment basins (Sediment Basin 1 and 3) for catchments 1 and 3.
 - Sediment basin 1 is capable of treating the entire catchment area and existing Pond 2 is not required. Pond 2 will be operated as a sediment basin, however, will also capture emergency overflow from the Leachate Pond.
 - A new sediment basin (Sediment Basin 2), previously approved under the original Development Application but not yet built, shall be constructed for treatment the southwestern area of the subject site.
- Leachate management:
 - The existing leachate pond (Pond 4) has a capacity of **7,016m³**, provided the spillway crest level is lifted 0.5m. All pond dimension provided are to be verified onsite.
 - Pond 3 will contain any emergency overflows.
 - Assessment demonstrates that the existing leachate pond is capable of is adequate to manage leachate volumes generated but under frequent and extreme events.
 - The system accommodates the **95th percentile storage volume** under long-term climatic conditions.
 - Forced evaporation via pond spraying is sufficient for routine conditions.
 - Trigger-based landfill spraying provides an effective operational control to manage extreme events.
 - Exceedances are infrequent, short-duration, and manageable within the site's infrastructure.
 - No increase in storage capacity is required provided stages are not more than 1ha in area.

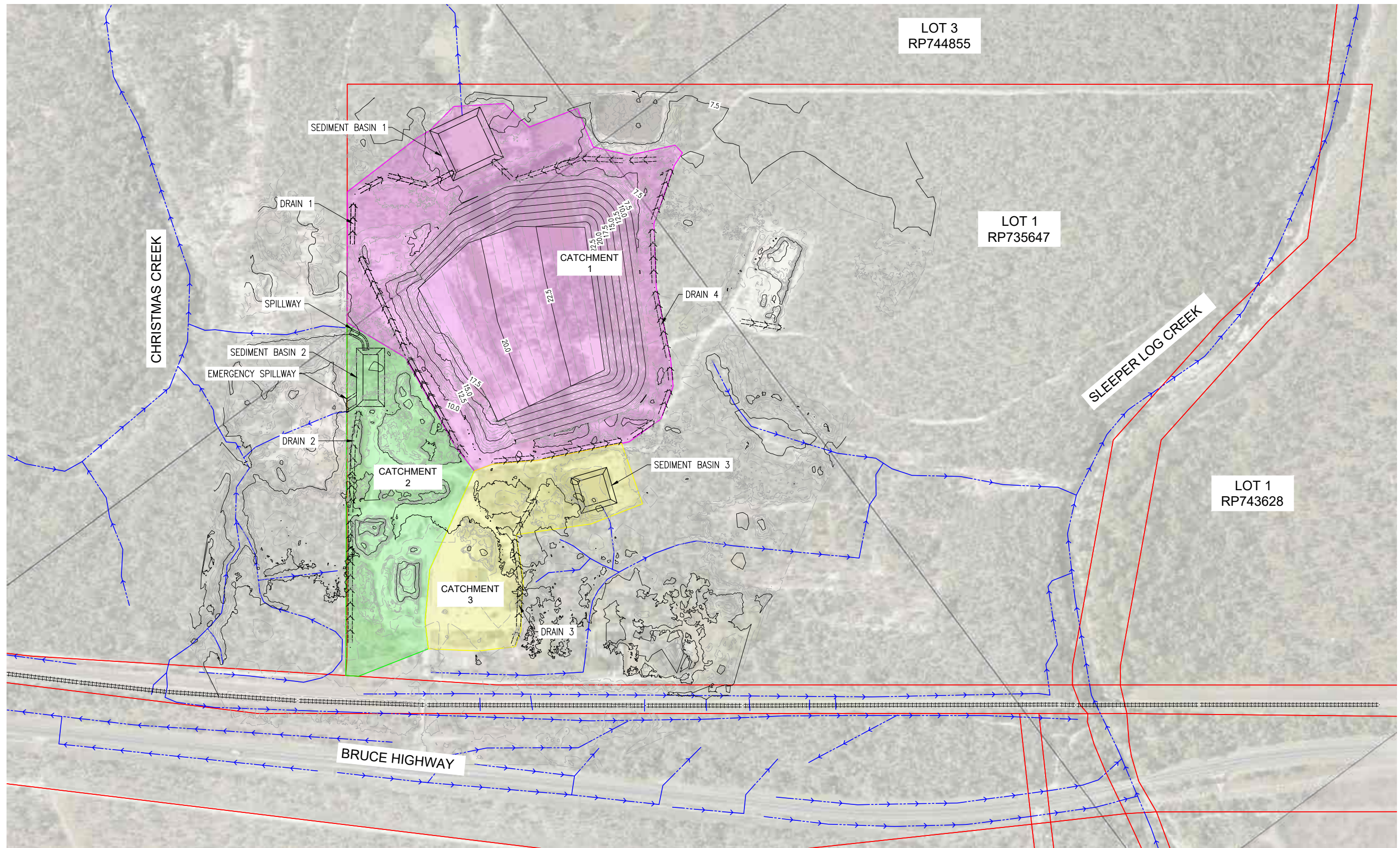
APPENDIX A

STORMWATER PLANS



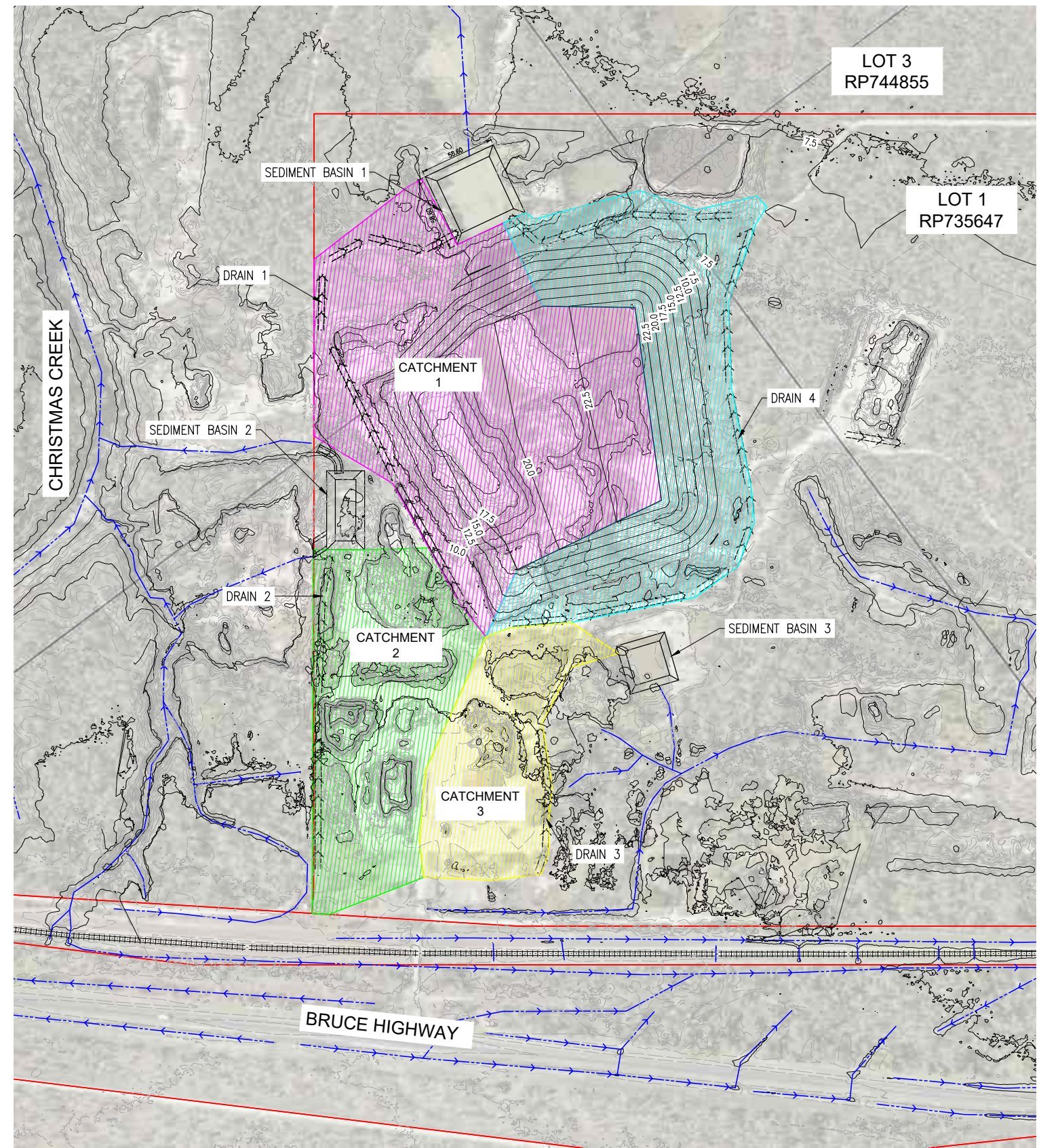
EXISTING STORMWATER CATCHMENT PLAN
SCALE 1:2000

REVISIONS					HORIZ. DATUM		CERTIFICATION		ABSOLUTE WASTE PTY LTD		SCALE	AS SHOWN
					VERT. DATUM		BRETT LANGTREE MIEAust, NER, RPEQ 11932		42386 BRUCE HIGHWAY, BLUEWATER		SHEET	SHEET 1 OF 17
					DRG. FILE		COPYRIGHT ©		LOT 1 on RP735647		REVISION	B
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26	These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.	EXISTING STORMWATER CATCHMENT PLAN		DRG No.	1343-SMP-001
B	N.P	18/06/26	TITLE BLOCK AMENDMENTS					 m 0400 699 979 e brett@langtreeconsulting.com.au				
A	N.P	31/07/25	ISSUED FOR SMP REPORT		DESIGN	N.P	18/06/26					

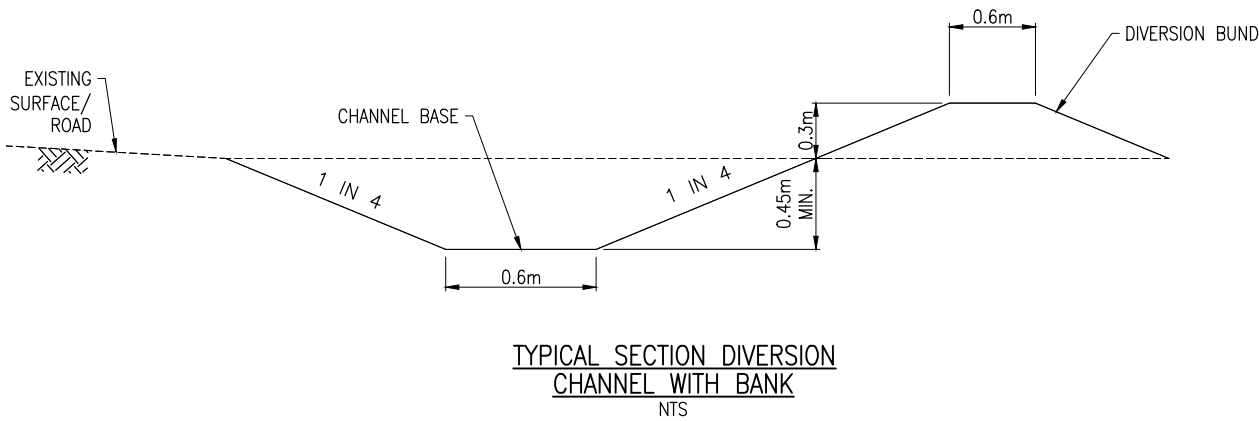


PROPOSED STORMWATER CATCHMENT PLAN
SCALE 1:2000

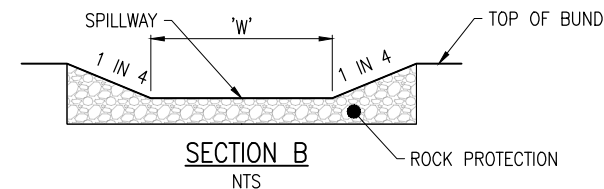
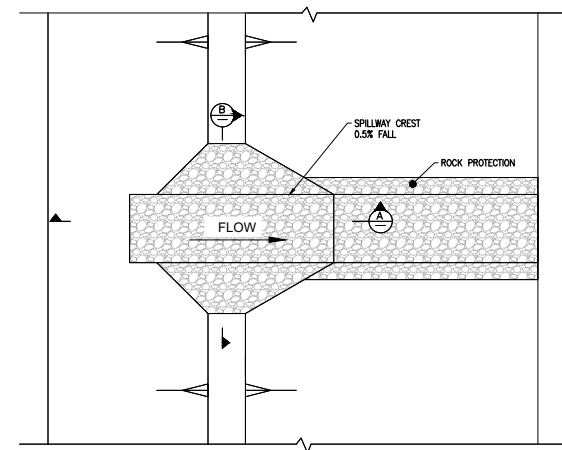
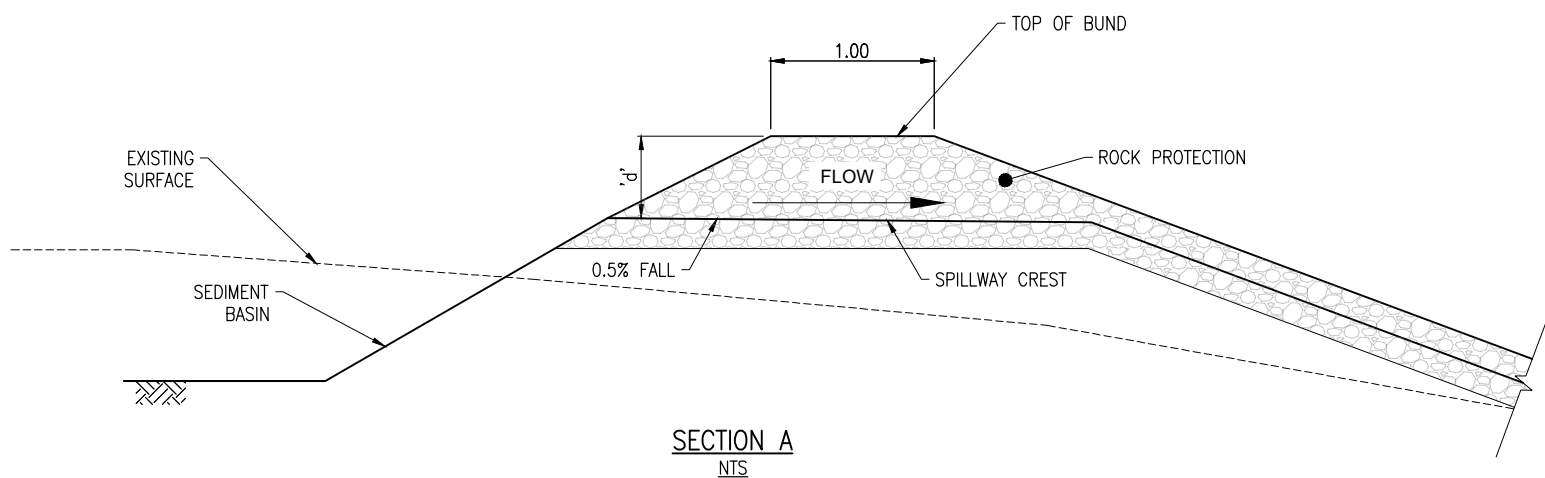
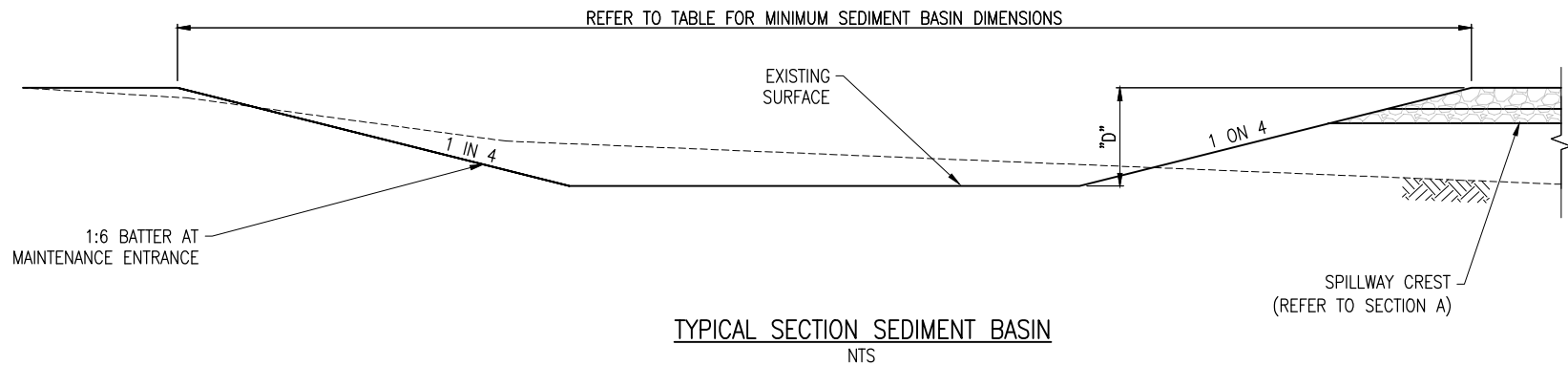
REVISIONS					HORIZ. DATUM		CERTIFICATION 		 LANGTREE CONSULTING ENGINEERS m e 0400 699 979 brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD		SCALE	AS SHOWN		
					VERT. DATUM							BRETT LANGTREE MIEAust, NER, RPEQ 11932		SHEET	SHEET 2 OF 17
	B	N.P	18/06/26	UPDATE FINAL LANDFORM	DRG. FILE		DATE	COPYRIGHT © These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.		42386 BRUCE HIGHWAY, BLUEWATER LOT 1 on RP735647		REVISION	B		
	A	N.P	31/07/25	ISSUED FOR SMP REPORT	DESIGN	N.P	18/06/26					PROPOSED STORMWATER CATCHMENT PLAN		DRG No.	1343-SMP-002
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26								



DRAIN CATCHMENT AREA PLAN
SCALE 1:2000



REVISIONS					HORIZ. DATUM	GDA2020 ZONE 55		CERTIFICATION 	 LANGTREE CONSULTING ENGINEERS	m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD			SCALE	AS SHOWN
					VERT. DATUM	AHD								BRETT LANGTREE MIEAust, NER, RPEQ 11932	SHEET
	B	N.P	18/06/26	DRAIN CATCHMENT FOR SIZING REVISED	DRG. FILE		DATE	COPYRIGHT © These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.			42386 BRUCE HIGHWAY, BLUEWATER LOT 1 on RP735647 DRAIN CATCHMENTS			REVISION	B
	A	N.P	31/07/25	ISSUED FOR SMP REPORT	DESIGN	N.P	18/06/26	DRG No. 1343-SMP-003							
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26								



SEDIMENT BASIN NOTES:

1. DETAILS SHOWN ON THESE REPRESENT PROPOSED MINIMUM REQUIREMENTS FOR ONE POSSIBLE METHOD TO ACHIEVE COMPLIANCE WITH LEGISLATION TO PREVENT ENVIRONMENTAL HARM FROM EROSION AND SEDIMENT TRANSFER OFF THE SITE.
2. DRAWINGS ARE INDICATIVE ONLY. DRAWINGS ARE NOT TO BE SCALED.
3. EARTH EMBANKMENTS GREATER THAN 1m TO BE BE CERTIFIED BY GEOTECHNICAL ENGINEER.
4. MINIMUM EMBANKMENT CREST WIDTH TO BE 2.5m UNLESS JUSTIFIED BY GEOTECHNICAL ENGINEER.
5. EARTH FILL FOR EMBANKMENTS SHALL BE CLEAN SOIL NON-DISPERSIVE SOIL AND FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER UNSUITABLE MATERIAL. FILL MATERIAL TO FROM EMBANKMENT TO BE CERTIFIED BY GEOTECHNICAL ENGINEER.
6. SPILLWAY ROCK SHALL BE HARD, ANGULAR, DURABLE WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL d_{50} ROCK SIZE. THE DIAMETER OF THE LARGEST ROCK SIZE SHOULD BE NO GREATER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. SPECIFIC GRAVITY SHALL BE AT LEAST 2.5.
7. SEDIMENT BASIN DETAILS AND DIMENSIONS SHOWN PROVIDE ONE POSSIBLE METHOD OF ACHIEVE MINIMUM REQUIRED SEDIMENT BASIN VOLUMES.
8. NOMINAL ROCK SIZING, d_{50} , SHOWN IN SPILLWAY TABLE ARE RECOMMENDED ROCK SIZING BASED ON ARI 50 FLOW VELOCITY

SEDIMENT BASIN MINIMUM DIMENSIONS

PARAMETER	BASIN 1	BASIN 2	BASIN 3
CATCHMENT (ha)	10.12	3.27	3.56
BATTER SLOPE (1 in x)	4	4	4
TOP WIDTH (m)	57.9	30.6	28.8
TOP LENGTH (m)	57.9	51.6	60.8
SETTLING ZONE DEPTH (m)	0.90	0.70	0.65
SEDIMENT STORAGE DEPTH (m)	0.6	0.70	0.65
BASIN DESIGN DEPTH (m)	1.5	1.4	1.3
FREEBOARD (m)	0.30	0.30	0.30
TOTAL DEPTH "D" (m)	1.80	1.70	1.60
BASIN VOLUME (m ³)	3,336	1,182	1,262

NOMINAL DIMENSIONS FOR SPILLWAY AND ROCK PROTECTION (Q50)

PARAMETER	BASIN 1	BASIN 2	BASIN 3
MIN. SPILLWAY BASE WIDTH (m) 'W'	3.50	2.50	2.50
MIN. SPILLWAY DEPTH (m) 'd'	0.30	0.30	0.30
NOMINAL ROCK SIZE (mm) ' d_{50} '	400	300	300

REVISIONS					HORIZ. DATUM	GDA2020 ZONE 55	CERTIFICATION  BRETT LANGTREE MIEAust, NER, RPEQ 11932
					VERT. DATUM	AHD	
	B	N.P	18/06/26	TITLE BLOCK AMENDMENTS	DRG. FILE		COPYRIGHT © These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.
	A	N.P	31/07/25	ISSUED FOR SMP REPORT	DESIGN	N.P	
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	
						18/06/26	

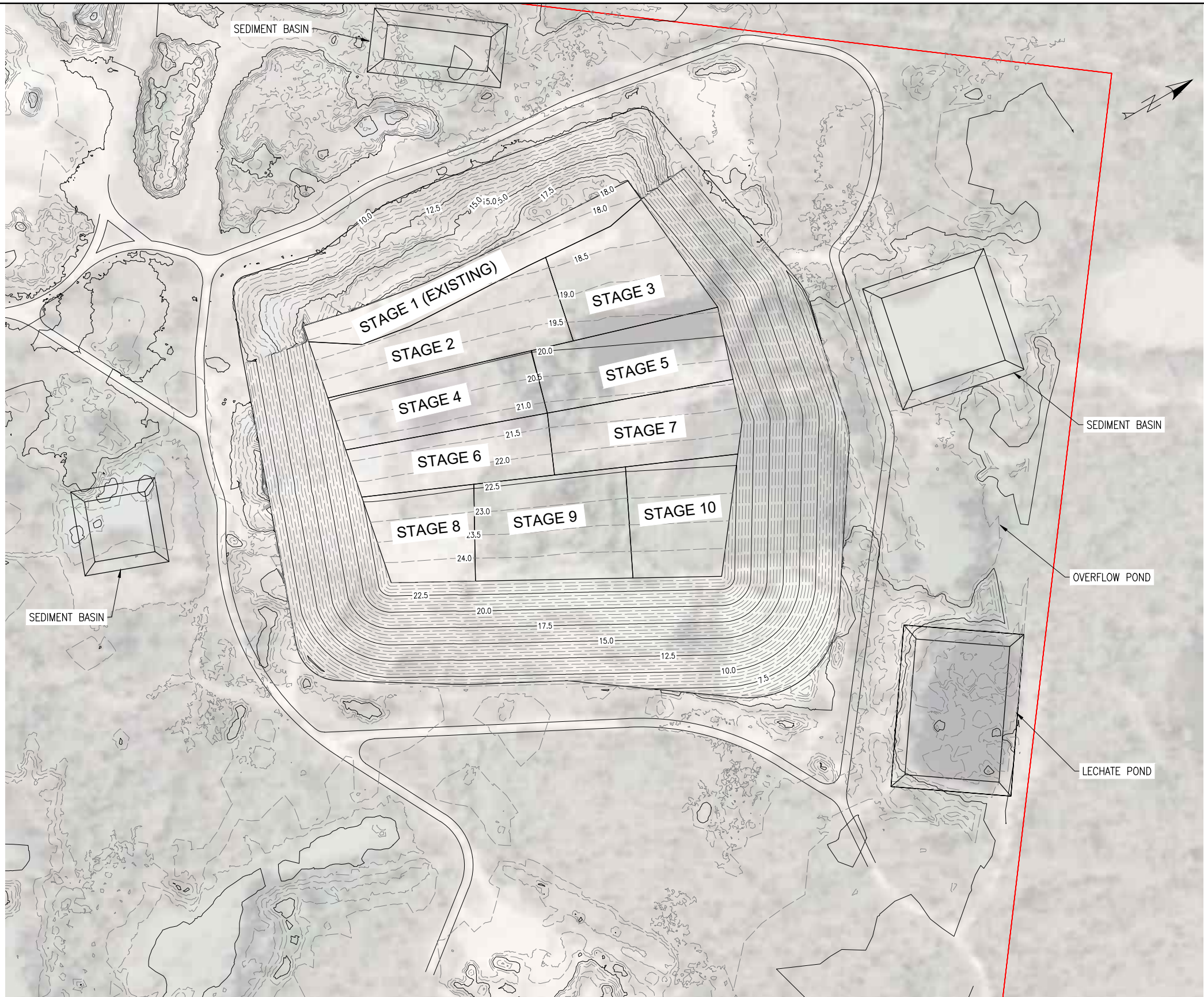


m 0400 699 979
e brett@langtreeconsulting.com.au

ABSOLUTE WASTE PTY LTD

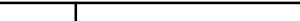
42386 BRUCE HIGHWAY, BLUEWATER
LOT 1 on RP735647
SEDIMENT BASIN DETAILS

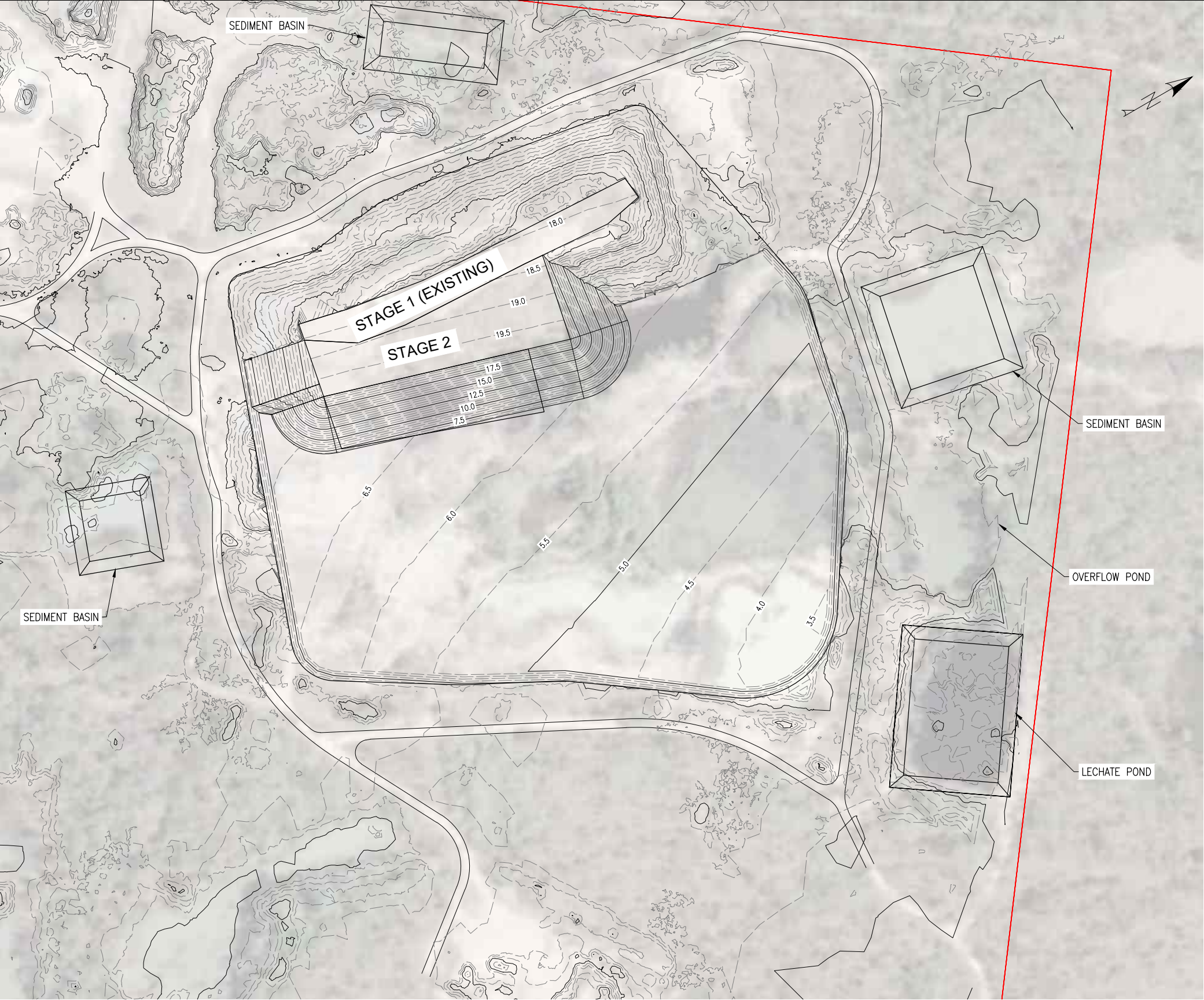
SCALE	AS SHOWN
SHEET	SHEET 4 OF 17
REVISION	B
DRG No.	1343-SMP-004



- NOTES:**
1. STAGES BASE IS TO BE PROGRESSIVELY EXCAVATED AND/OR BUNDED AS REQUIRED TO PREVENT CLEAN WATER COMING INTO CONTACT WITH WASTE DISPOSAL AREA.
 2. FINAL EXTERNAL BATTERS TO BE 1:3.
 3. INTERNAL BATTERS BETWEEN STAGES TO BE 1:2.
 4. STAGES TO NOT BE GREATER THAN 1HA IN WORKING AREA BEFORE FINAL OR INTER-CELL CAPPING.

FINAL LAND FORMATION - STAGE 10
SCALE 1:500 (A1)

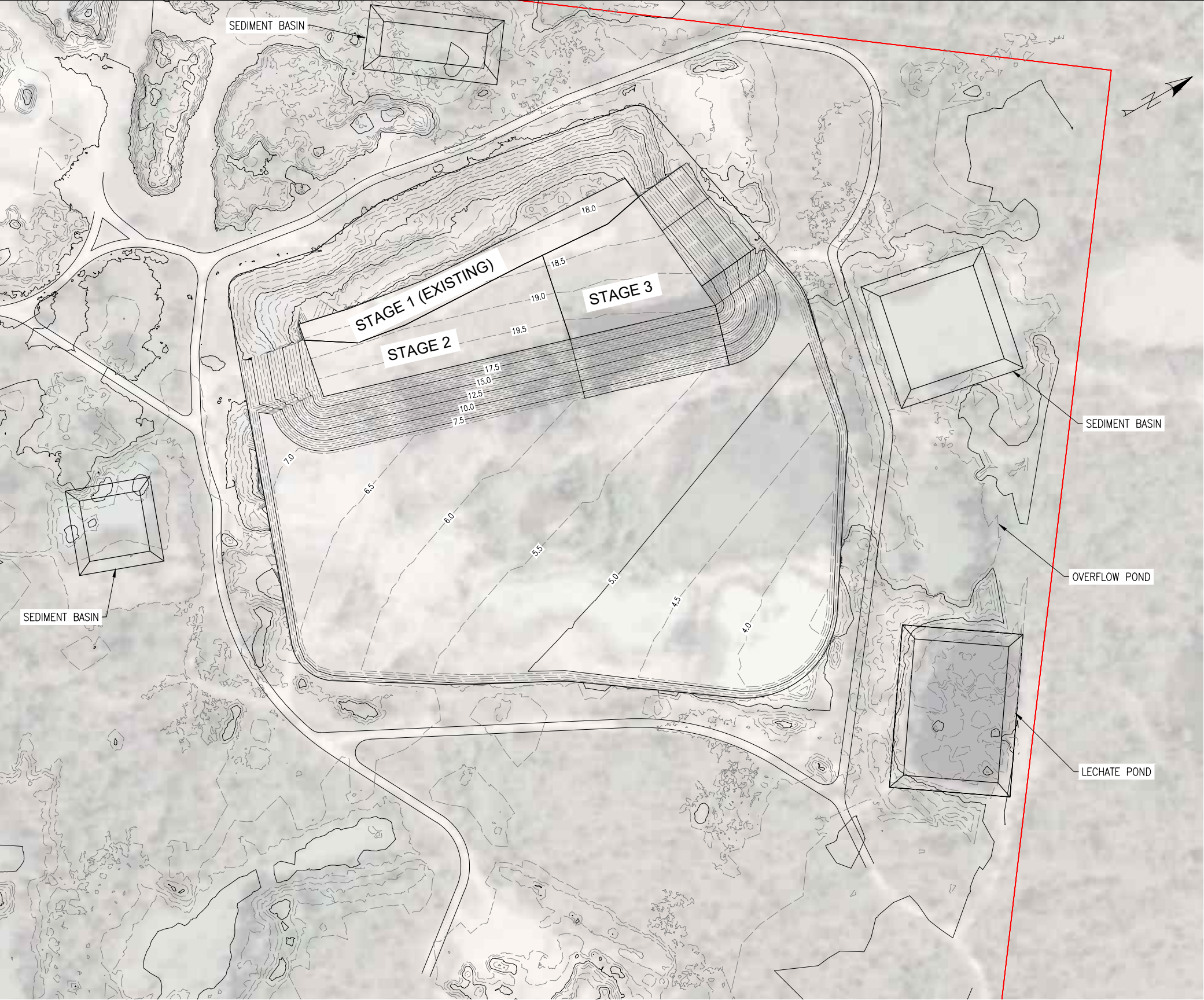
REVISIONS					HORIZ. DATUM		CERTIFICATION  BRETT LANGTREE MIEAust, NER, RPEQ 11932		 LANGTREE CONSULTING ENGINEERS	m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD				SCALE	1:500 (A1)
					VERT. DATUM						42386 BRUCE HIGHWAY, BLUEWATER LOT 1 ON RP735647				SHEET	SHEET 5 OF 17
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE		DATE	PROPOSED FINAL FORMATION - STAGE 10							REVISION	A
	No.	BY	DATE	DESCRIPTION	DESIGN	N.P	18/06/26					These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.				DRG No.
					DRAWN	N.P	18/06/26									



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 2
SCALE 1:500 (A1)

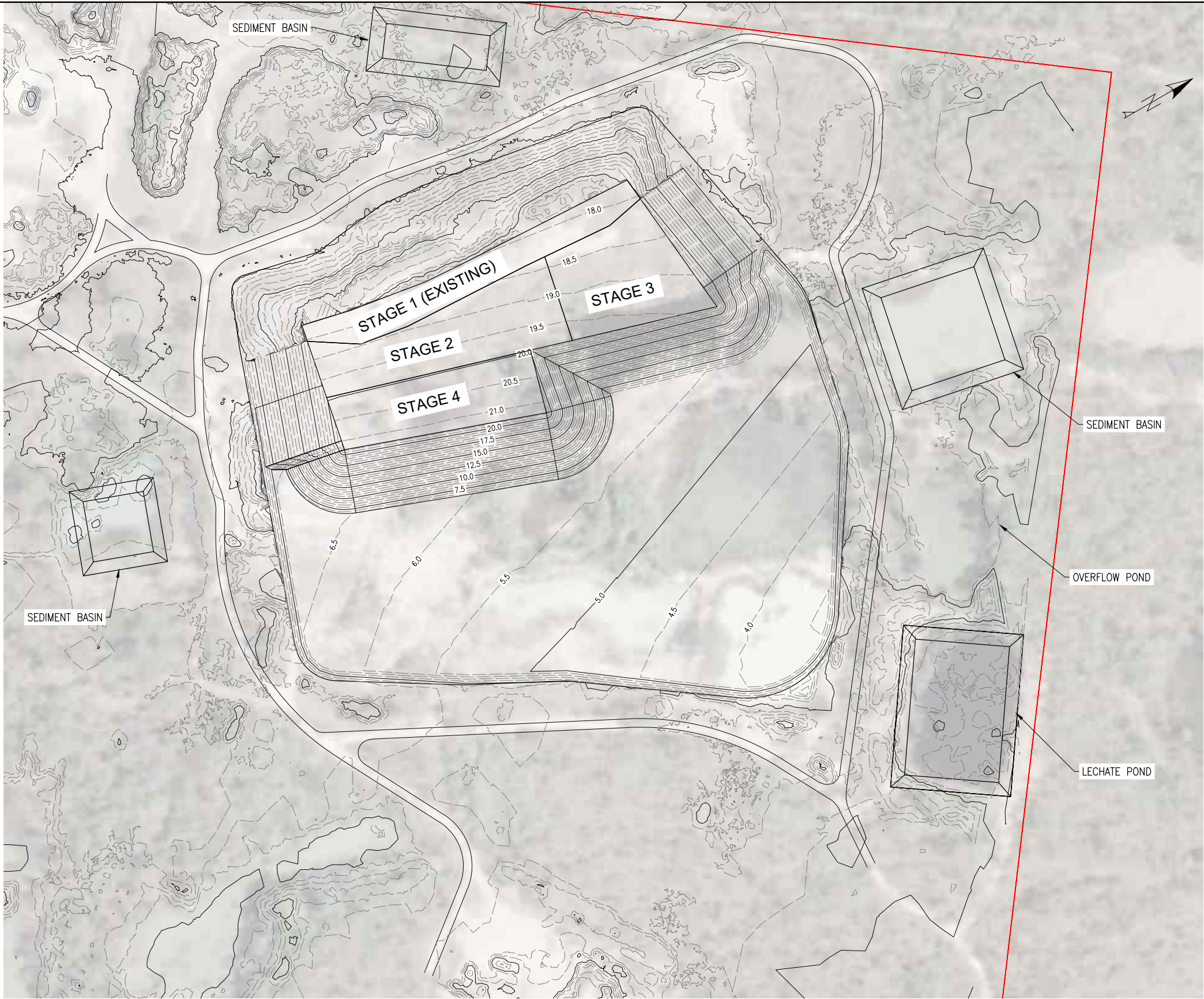
REVISIONS					HORIZ. DATUM		CERTIFICATION  BRETT LANGTREE MIEAust, NER, RPEQ 11932		 m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD			SCALE	1:500 (A1)
					VERT. DATUM								COPYRIGHT © These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.	
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE		DATE			42386 BRUCE HIGHWAY, BLUEWATER LOT 1 ON RP735647 PROPOSED FORMATION - STAGE 2			REVISION	A
	No.	BY	DATE	DESCRIPTION	DESIGN	N.P	18/06/26						DRG No.	
					DRAWN	N.P	18/06/26							



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 3
SCALE 1:500 (A1)

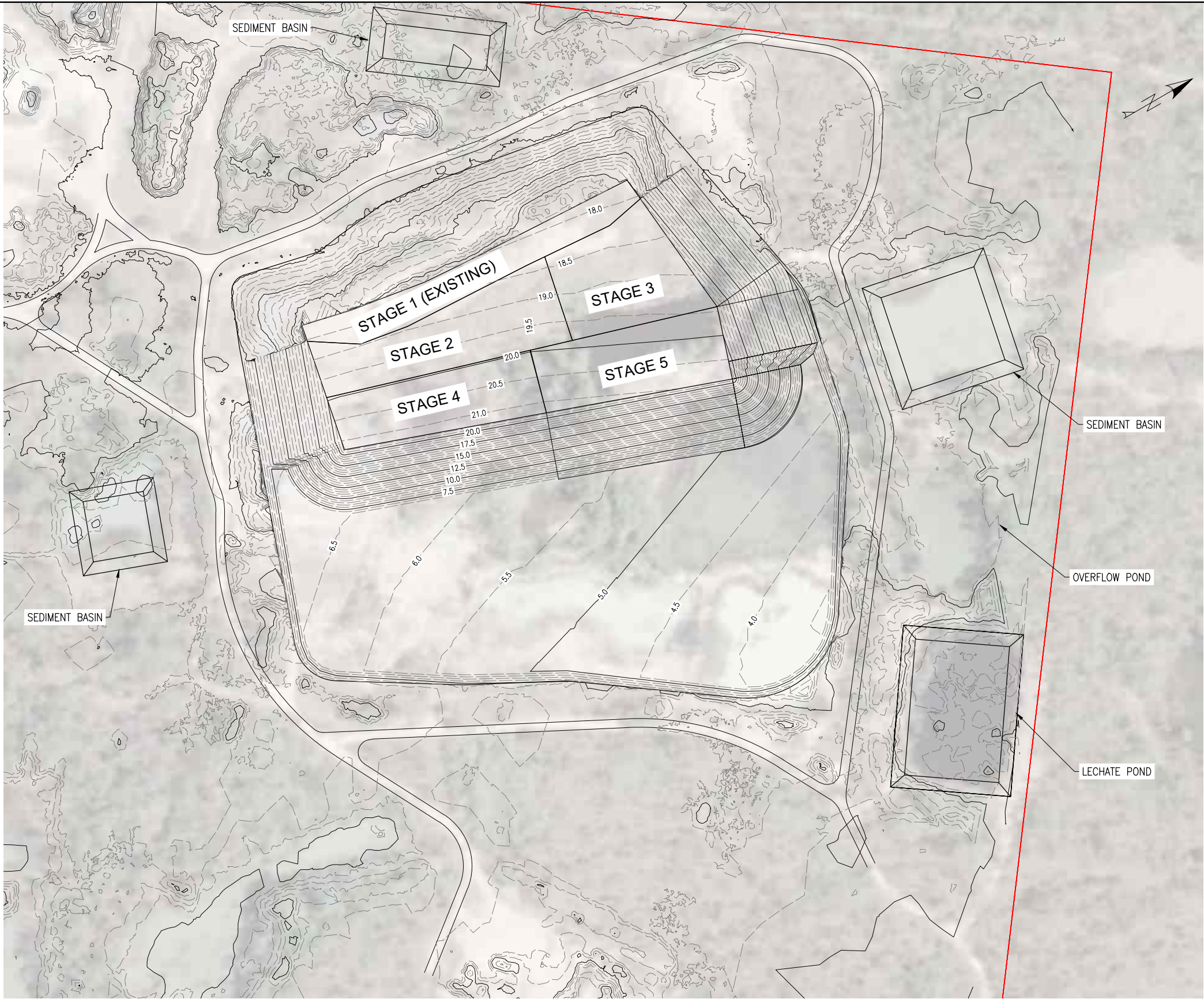
REVISIONS					HORIZ. DATUM		CERTIFICATION  BRETT LANGTREE MIEAust, NER, RPEQ 11932	 0400 699 979 brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD		SCALE	1:500 (A1)
					VERT. DATUM				42386 BRUCE HIGHWAY, BLUEWATER		SHEET	SHEET 7 OF 17
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE	DATE			LOT 1 ON RP735647		REVISION	A
	No.	BY	DATE	DESCRIPTION	DESIGN	N.P	18/06/26		PROPOSED FORMATION - STAGE 3		DRG No.	1343-SMP-007
					DRAWN	N.P	18/06/26					



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 4
SCALE 1:500 (A1)

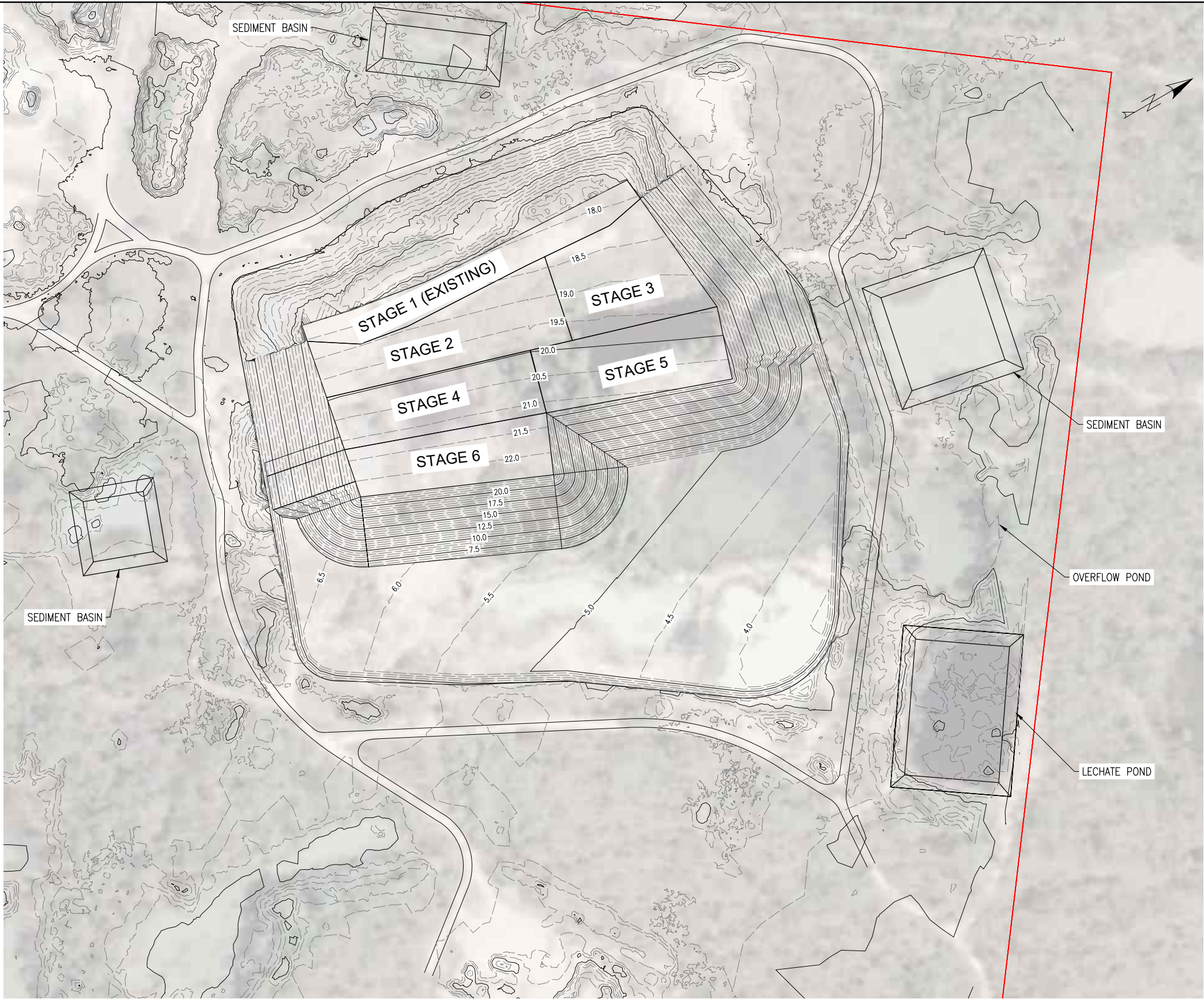
REVISIONS					HORIZ. DATUM		CERTIFICATION  BRETT LANGTREE MIEAust, NER, RPEQ 11932		 LANGTREE CONSULTING ENGINEERS m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD				SCALE	1:500 (A1)
					VERT. DATUM					42386 BRUCE HIGHWAY, BLUEWATER				SHEET	SHEET 8 OF 17
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE		DATE	LOT 1 ON RP735647				REVISION	A		
	No.	BY	DATE	DESCRIPTION	DESIGN	N.P	18/06/26	PROPOSED FORMATION -STAGE 4				DRG No.	1343-SMP-008		
					DRAWN	N.P	18/06/26								



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 5
SCALE 1:500 (A1)

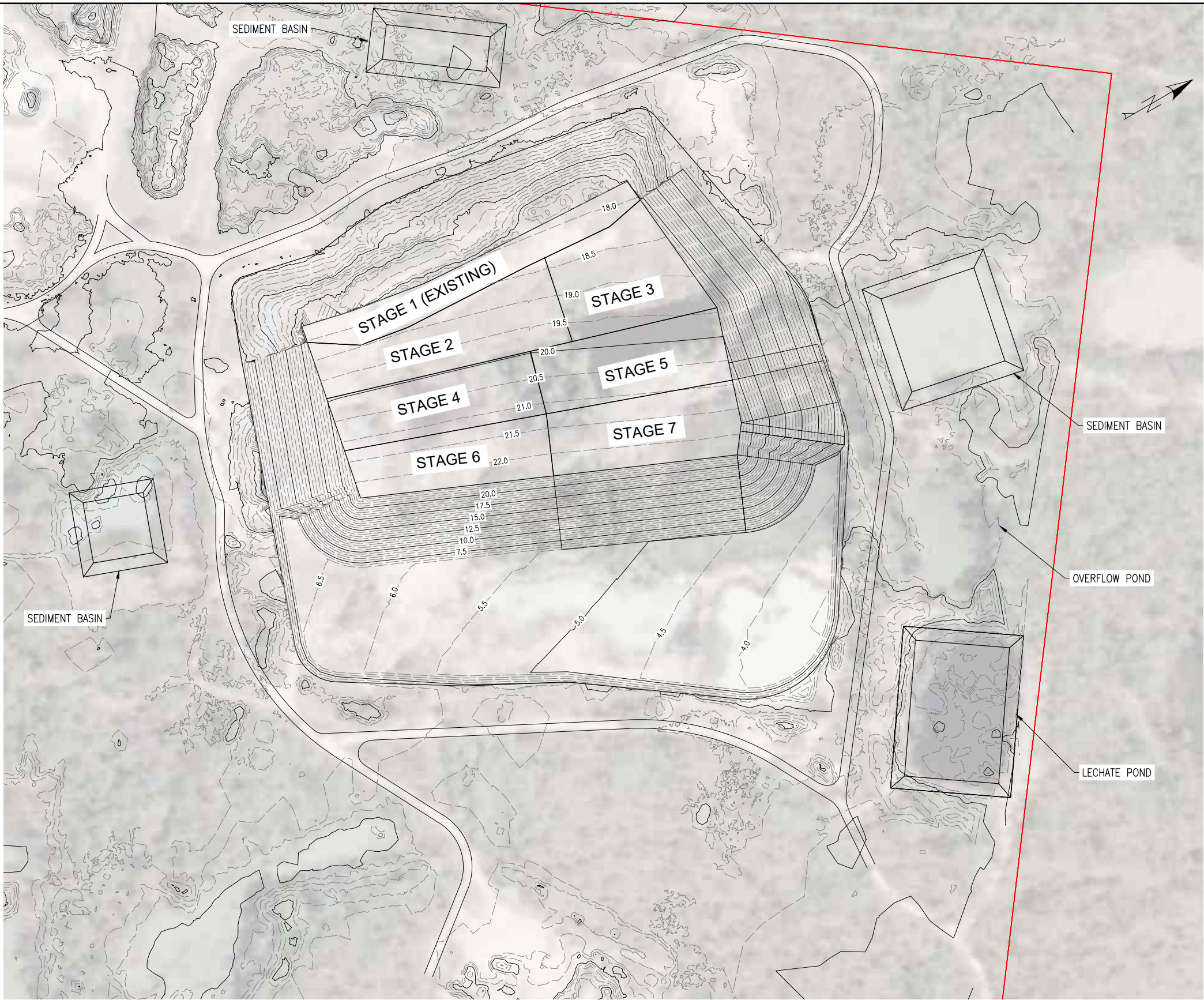
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					VERT. DATUM					SHEET	SHEET 9 OF 17
					DRG. FILE					REVISION	A
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DESIGN	N.P	18/06/26			DRG No.	1343-SMP-009
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26				



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 6
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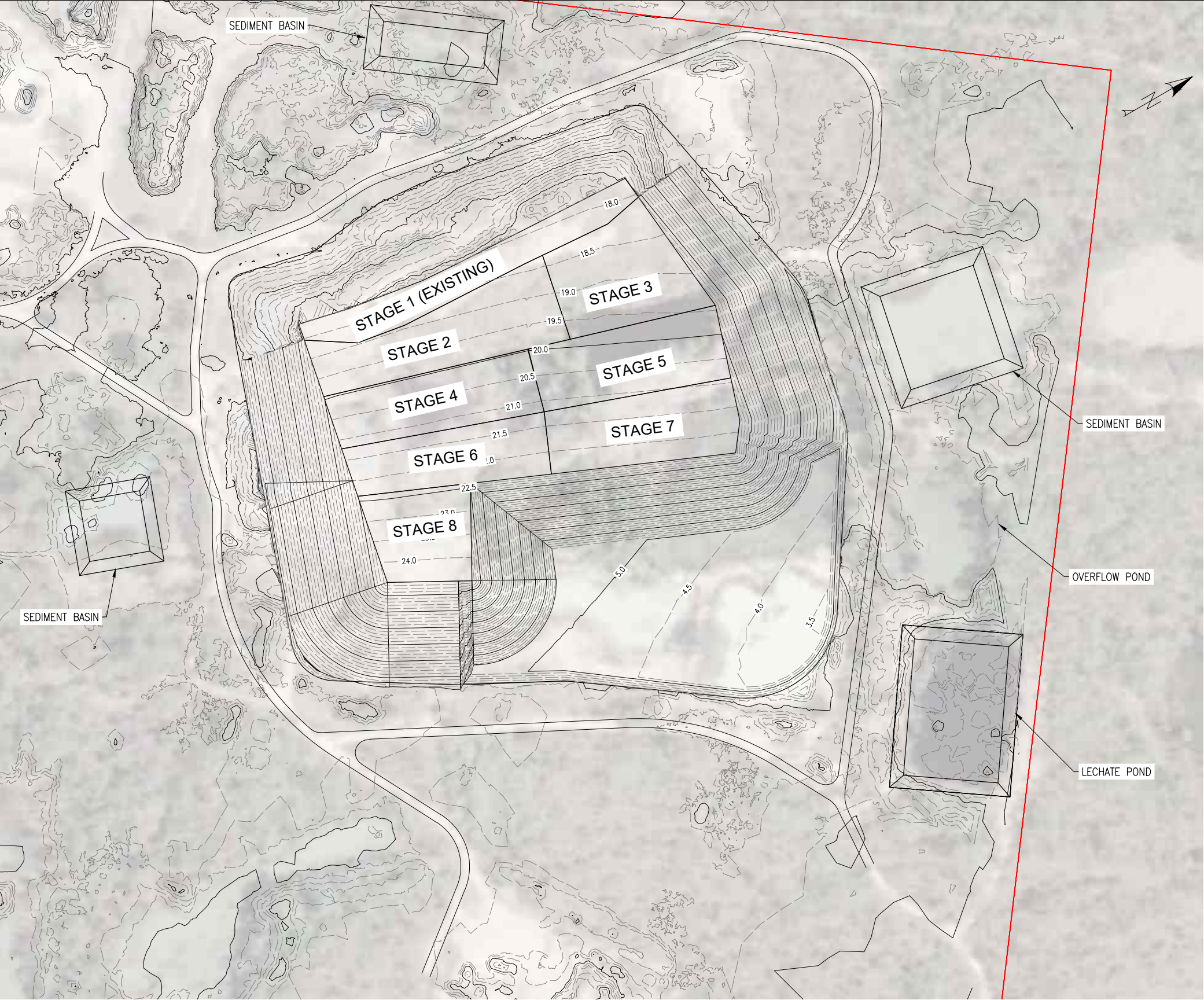
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					VERT. DATUM					SHEET	SHEET 10 OF 17
					DRG. FILE					REVISION	A
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	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26				



NOTES:
1. REFER TO SK05 FOR NOTES.

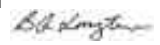
STAGE 7
SCALE 1:500 (A1)

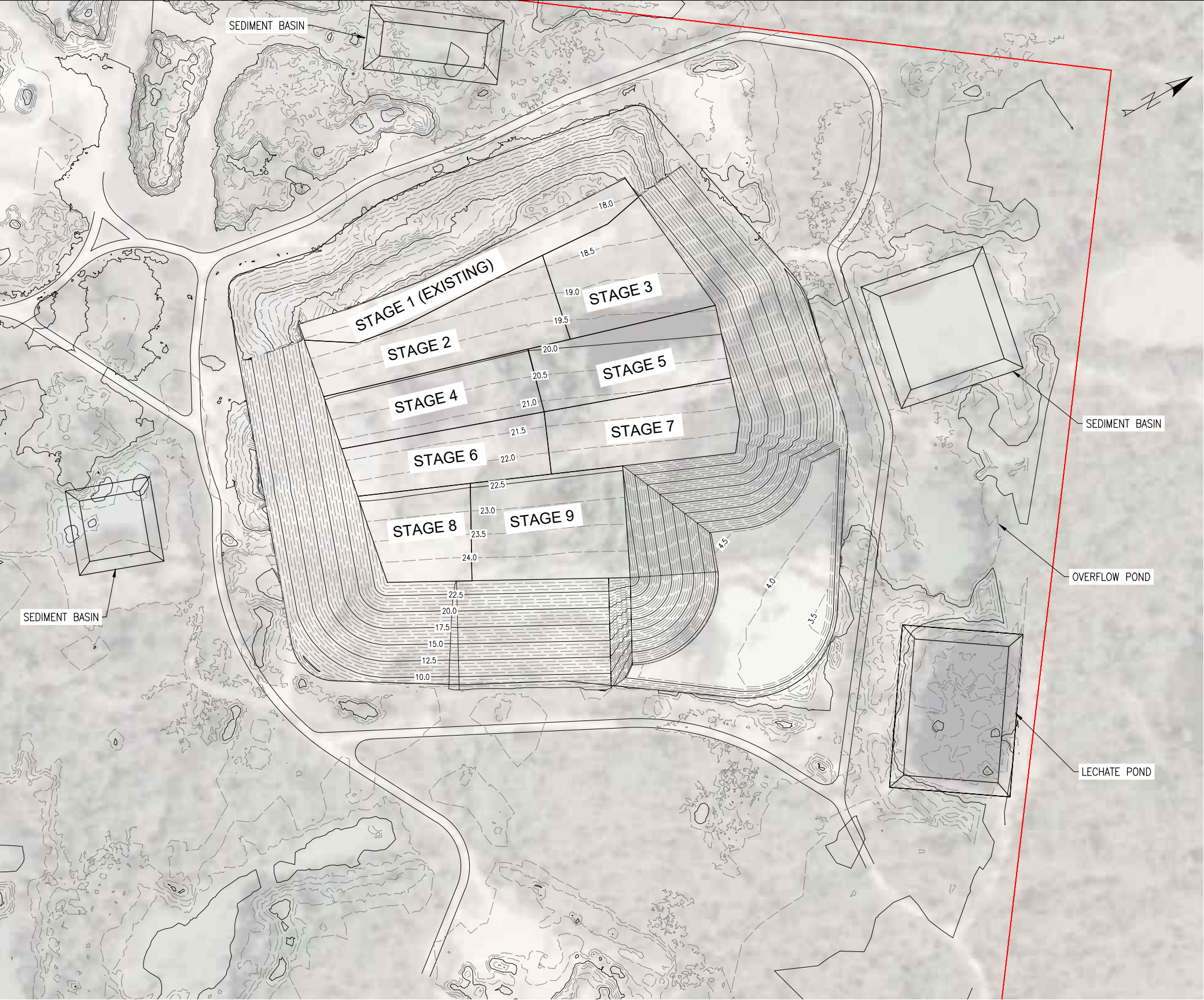
REVISIONS					HORIZ. DATUM		CERTIFICATION		 m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD			SCALE	1:500 (A1)	
					VERT. DATUM		BRETT LANGTREE MIEAust, NER, RPEQ 11932			42386 BRUCE HIGHWAY, BLUEWATER			SHEET	SHEET 11 OF 17	
					DRG. FILE		DATE	COPYRIGHT ©		LOT 1 ON RP735647			REVISION	A	
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DESIGN	N.P	18/06/26	These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.		PROPOSED FORMATION - STAGE 7			DRG No.	1343-SMP-011	
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26								



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 8
SCALE 1:500 (A1)

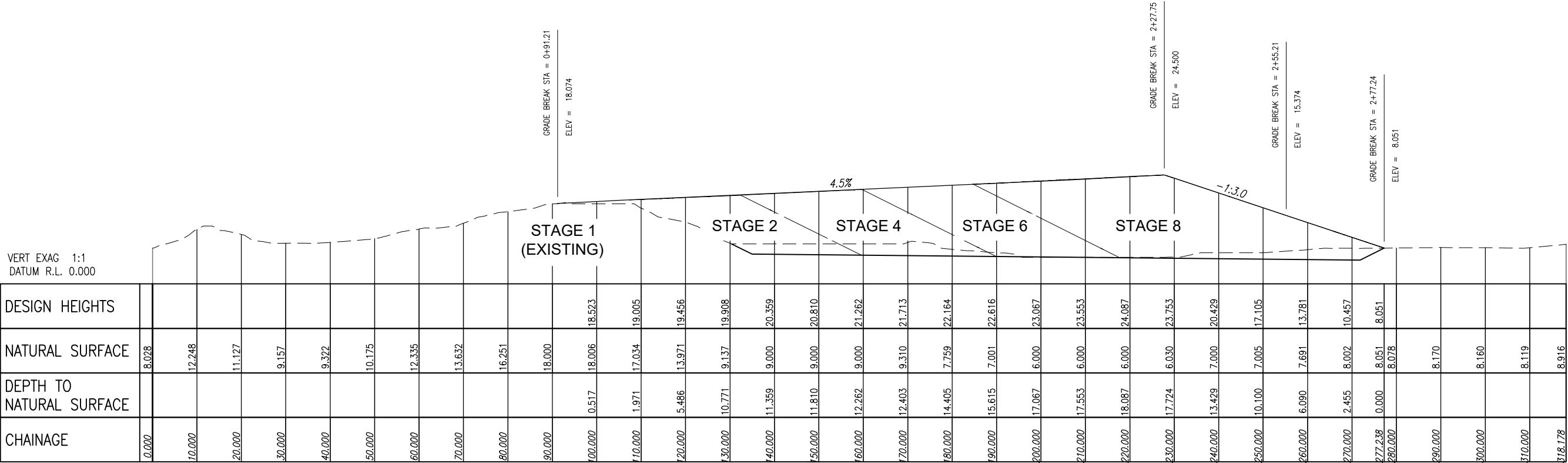
REVISIONS					HORIZ. DATUM		CERTIFICATION  BRETT LANGTREE MIEAust, NER, RPEQ 11932		 m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD				SCALE	1:500 (A1)
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	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE		DATE	REVISION						A	
	No.	BY	DATE	DESCRIPTION	DESIGN	N.P	18/06/26	42386 BRUCE HIGHWAY, BLUEWATER LOT 1 ON RP735647 PROPOSED FORMATION - STAGE 8				DRG No.	1343-SMP-012		
					DRAWN	N.P	18/06/26								



NOTES:
1. REFER TO SK05 FOR NOTES.

STAGE 9
SCALE 1:500 (A1)

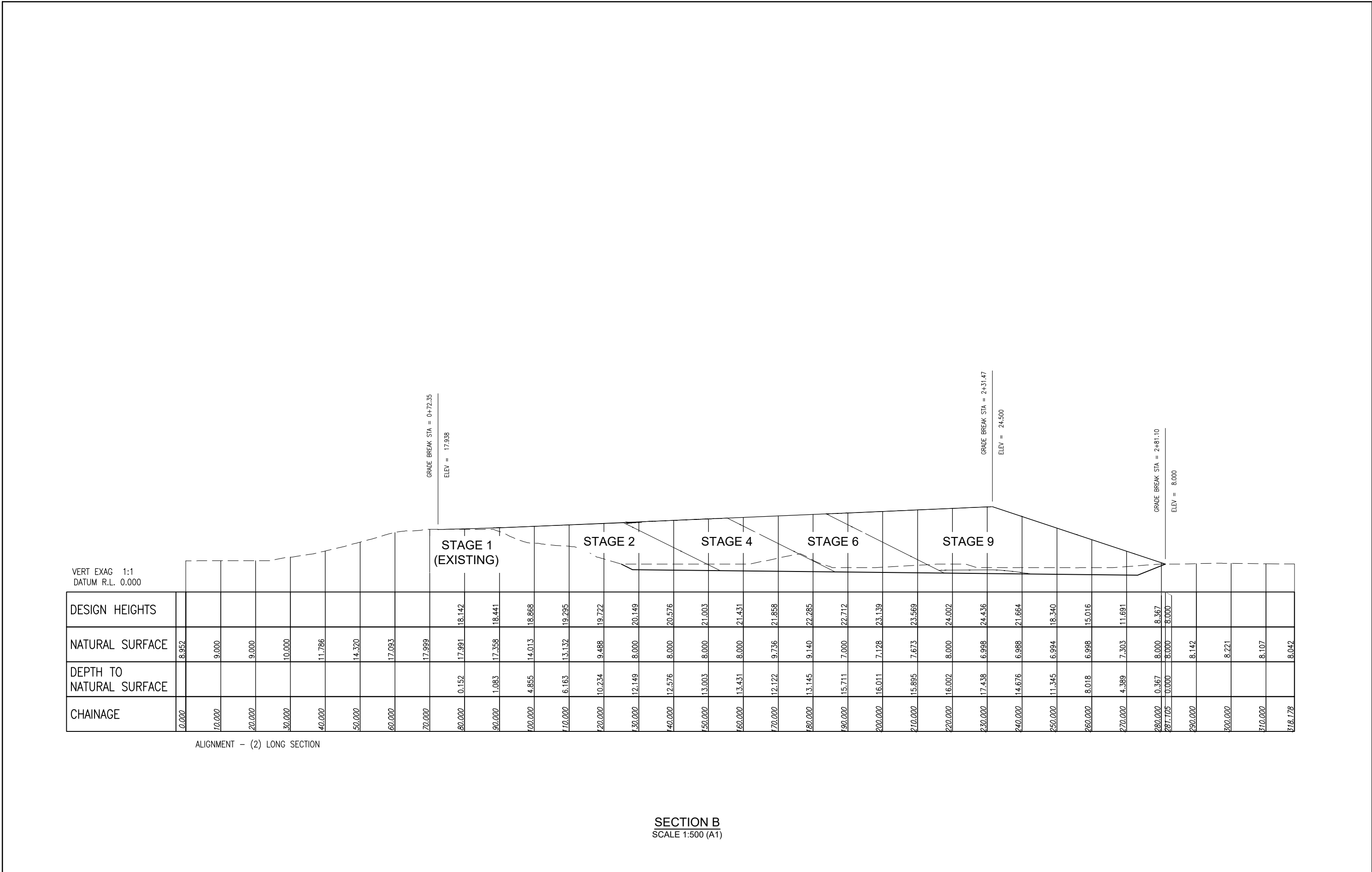
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					VERT. DATUM					SHEET	SHEET 13 OF 17
					DRG. FILE					REVISION	A
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DESIGN	N.P	18/06/26			DRG No.	1343-SMP-013
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26				



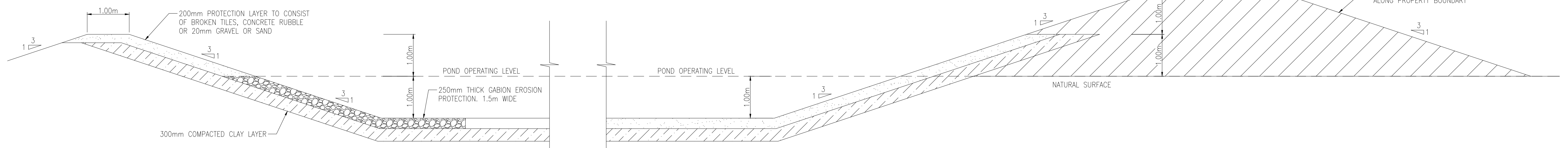
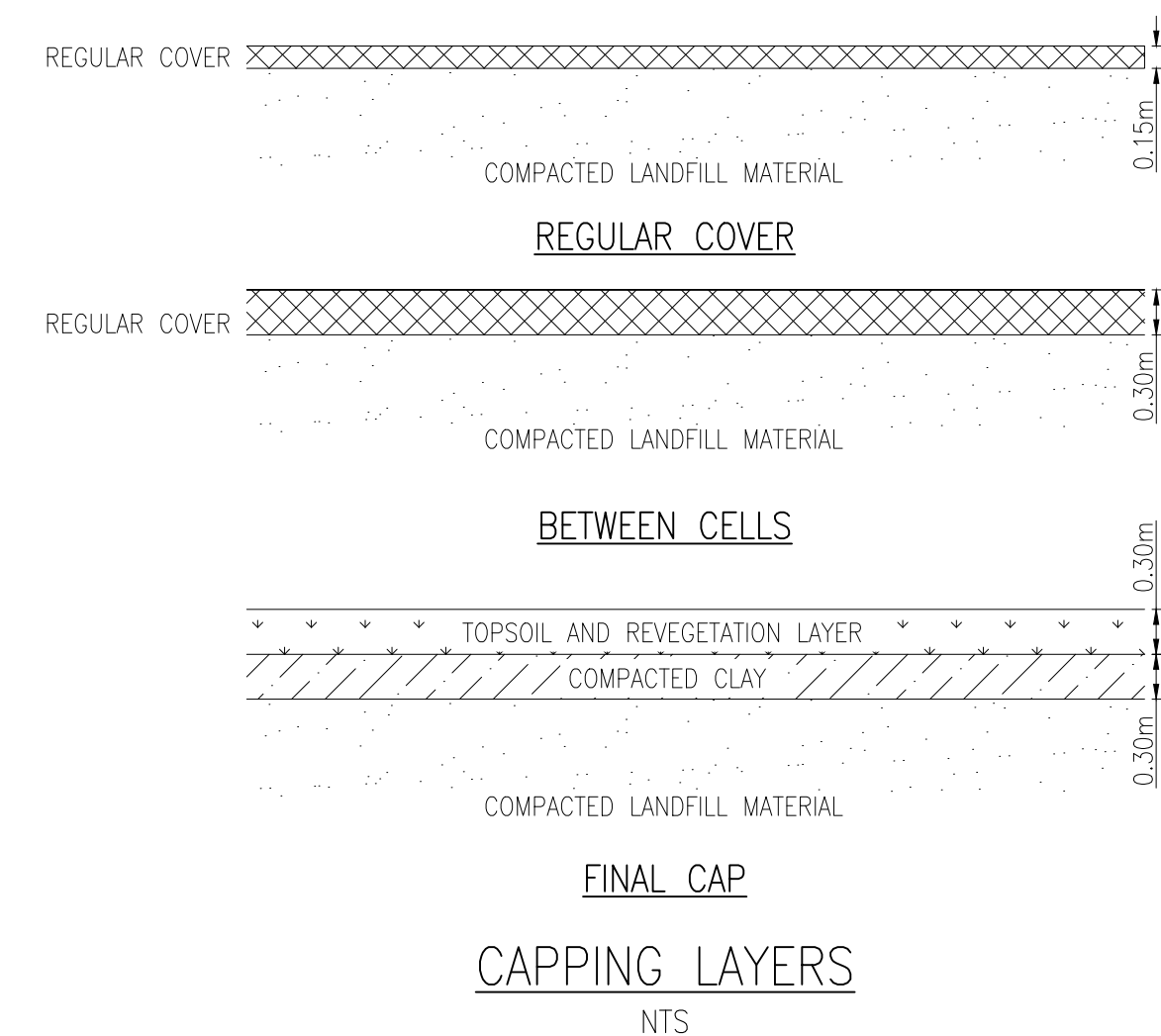
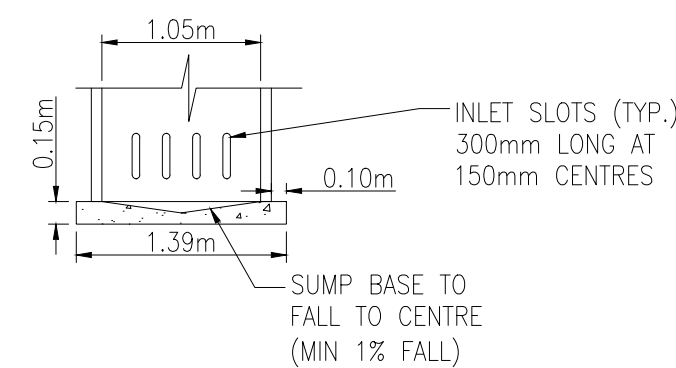
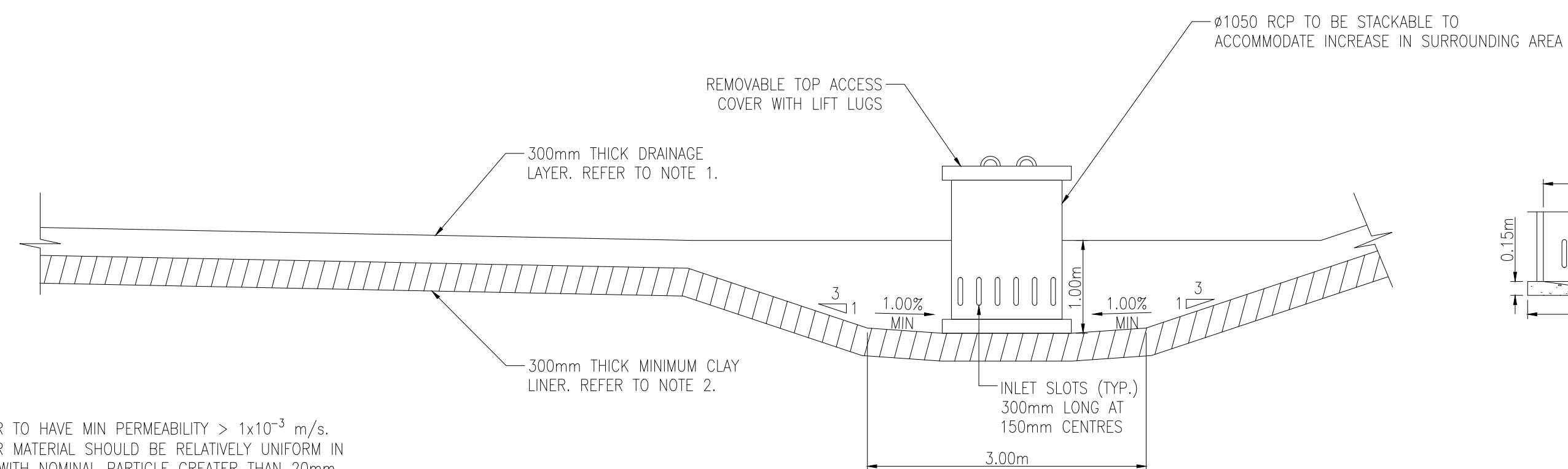
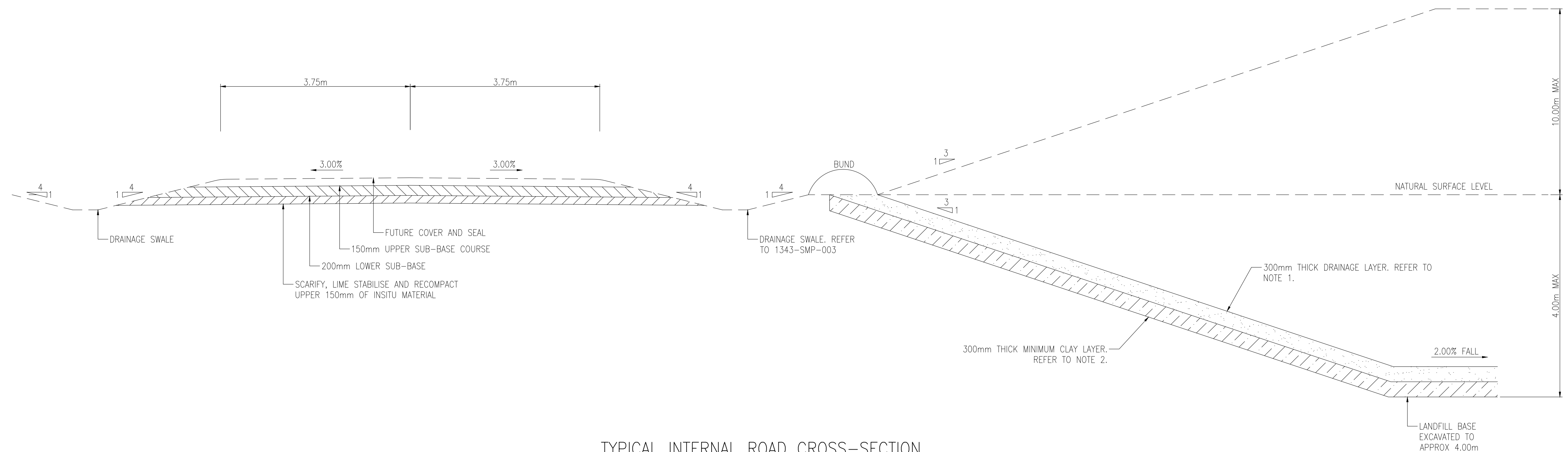
ALIGNMENT - (1) LONG SECTION

SECTION A
SCALE 1:500 (A1)

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					VERT. DATUM						SHEET	SHEET 14 OF 17
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE				42386 BRUCE HIGHWAY, BLUEWATER LOT 1 ON RP735647 PROPOSED FINAL FORMATION - SECTION A		REVISION	A
	No.	BY	DATE	DESCRIPTION	DESIGN	N.P	18/06/26				DRG No.	1343-SMP-014
					DRAWN	N.P	18/06/26					



REVISIONS					HORIZ. DATUM		CERTIFICATION		 LANGTREE CONSULTING ENGINEERS m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD		SCALE	1:500 (A1)
					VERT. DATUM		BRETT LANGTREE MIEAust, NER, RPEQ 11932			SHEET	SHEET 15 OF 17		
					DRG. FILE		DATE	COPYRIGHT ©		42386 BRUCE HIGHWAY, BLUEWATER LOT 1 ON RP735647	REVISION	A	
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DESIGN	N.P	18/06/26	These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.			PROPOSED FINAL FORMATION - SECTION B	DRG No.	1343-SMP-015
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26						



REVISIONS					HORIZ. DATUM		CERTIFICATION		 m 0400 699 979 e brett@langtreeconsulting.com.au	ABSOLUTE WASTE PTY LTD			SCALE	1500 (A1)			
					VERT. DATUM		BRETT LANGTREE MIEAust, NER, RPEQ 11932						SHEET	SHEET 17 OF 17			
	A	N.P	18/06/26	ISSUED FOR SMP REPORT	DRG. FILE	DATE		COPYRIGHT ©		42386 BRUCE HIGHWAY, BLUEWATER			REVISION	A			
					DESIGN	N.P	18/06/26	These designs and drawings are copyright and are not to be used or reproduced without the written permission of LANGTREE CONSULTING PTY LTD (ACN 29 611 368 024). The contents of this drawing are electronically generated, are confidential and may only be used for the purpose for which they were intended. This is an uncontrolled document issued for information purposes only, unless the checked sections are signed and approved. Figured dimensions take precedence over scale. Do not scale from this drawing.					LOT 1 ON RP735647		DRG No.	1343-SMP-017	
	No.	BY	DATE	DESCRIPTION	DRAWN	N.P	18/06/26						PROPOSED FINAL FORMATION - STAGE 10				

APPENDIX B

STORMWATER ASSESMENT

42386 Bruce Highway, Bluewater

Hydrologic & Hydraulic Assessment

Hydrology Assessment - Time of Concentration, t_c

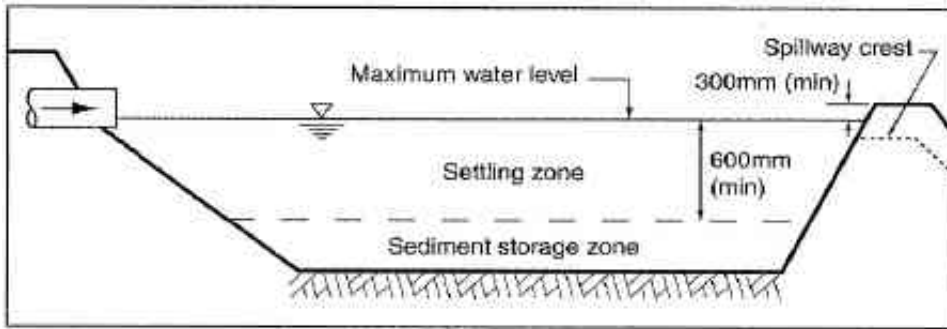
Structure Type	Location ID	Catchment Area	Time of Concentration		
			Bransby Williams Eqt.		
			Flow Path	Slope	t_c
		(ha)	km	(%)	(min)
Spillway SB1	SB1	10.12	0.680	0.05	57.0
Spillway SB2	SB2	3.28	0.537	0.05	50.4
Spillway SB3	SB3	3.56	0.250	0.05	23.3
Diversion Channel 1	DC1	5.70	0.680	0.05	60.3
Diversion Channel 2	DC2	2.78	0.323	0.05	30.8
Diversion Channel 3	DC3	1.69	0.217	0.05	21.7
Diversion Channel 4	DC4	3.68	0.560	0.05	51.9

Hydrology Assessment - Design Flow, Q

Structure Type	Location ID	Design Flow								
		Design ARI	t_c	Rainfall	I_{10}	Fraction	Frequency	C_{10}	C_y	Flow Rate
		y	(min)	(mm/hr)	(mm/hr)					(m ³ /s)
Spillway SB1	SB	50	57.0	110.0	78.86	1	1.15	0.90	1.00	3.096
Spillway SB2	SB	50	50.4	110.0	78.86	1	1.15	0.90	1.00	1.003
Spillway SB3	SB	50	23.3	110.0	78.86	1	1.15	0.90	1.00	1.089
Diversion Channel 1	DC1	5	60.3	76.6	78.86	1	0.95	0.70	0.67	0.807
Diversion Channel 2	DC2	5	30.8	111.0	78.86	1	0.95	0.70	0.67	0.571
Diversion Channel 3	DC3	5	21.7	69.4	78.86	1	0.95	0.70	0.67	0.217
Diversion Channel 4	DC4	5	51.9	97.8	78.86	0	0.95	0.70	0.67	0.666

42386 Bruce Highway, Bluewater

Sediment Basin Design



INPUT

Catchment (SB1)

1) Proposed Sediment Basin Dimensions

Parameter	Value	Comments
Basin Type	D	To be confirmed upon receive of geotechnical results
Catchment (ha)	10.12	
Batter Slope (1 on x)	4	Assumed batter slope
Top Length (m)	57.9	IECA Min. desirable length to width ratio 3:1 or install baffles
Bottom Width (m)	43.5	Assumed dimension
Bottom Length (m)	43.5	
Design Water Depth (m)	1.50	
Freeboard (m)	0.3	IECA minimum freeboard;
Total Basin Depth (m)	1.80	Overall depth including freeboard

2) Settling Zone & Sediment Storage Zone

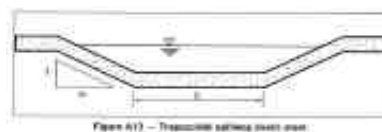
Parameter	Units	Value	Comments
Batter slope	m/m	0.250	
Volumetric runoff coefficient, C_v	-	1.00	Assumed worse case compacted clay
Catchment area, A	ha	10.12	
Constant, K_1	-	17	IECA Appendix B - Table B4 (2008)
Constant, K_2	-	11.2	$y\% = 80\%$ - Basins with a design life >6 months
Average rainfall intensity, $I_{(10yr,24hr)}$	mm/hr	12.05	Refer IFD
Rainfall depth, $R_{(y\%,1-day)}$	-	216.0	$R = K_1 \cdot I_{(10yr,24hr)} + K_2$
Settling volume, V_s	m ³	2186	DETSI Stormwater and environmentally relevant activities $V_s = R \cdot C_v \cdot A$
Sediment storage volume	m ³	1093	DETSI Stormwater and environmentally relevant activities, IECA Table B8 - 50% of settling volume
Total Sediment Basin Volume required	m ³	3279	

3) Proposed Sediment Basin Dimension Checks

Parameter	Units	Value	Comments
Basin Design Depth	m	1.50	
Top Width	m	55.5	
Top Length	m	55.5	
Bottom Width	m	43.5	
Bottom Length	m	43.5	
Proposed Sediment Basin Volume	m ³	3336	OK: Equal or greater than total volume required

4) Proposed Settling Zone volume and depth

Parameter	Units	Value	Comments
Proposed Settling Depth	m	0.9	Iterate
Top Width	m	55.5	
Top Length	m	55.5	
Bottom Width	m	48.3	
Bottom Length	m	48.3	
Proposed Settling Volume	m ³	2291	OK: Equal or greater than Settling Volume required



5) Trapezoidal Spillway Wier Crest

Parameter	Units	Value	Comments
ARI 50 Flow	m ³ /s	3.10	
Water Depth	m	0.19	Water depth at ARI 50 flow
Spillway Slope (1 on x)	m	4	
Spillway Base Width	m	3.5	
Flow (Q)	m ³ /s	2.10	WARNING: Lesser than ARI 50 Flow

6) Minimum Sediment Basin Sizing

Batter Slope (1 on x)	4	
Basin Top of Bank Width	57.90	m
Basin Top of Bank Length	57.90	m
Settling Zone Depth	0.90	m
Sediment Storage Depth	0.60	m
Basin Design Depth	1.50	m
Freeboard	0.30	m
Overall Basin Depth incl. freeboard	1.80	m
Sediment Basin Storage Capacity	3336	m ³

7) Rock Size

SF	1.50	
k ₁	1	
k ₂	1.05	
S _O	0.263	m/m
q	0.885	m ³ /s/m
Sr	2.600	
d ₅₀	0.486	m
Adopted d ₅₀	400	mm
Minimum thickness	0.777	m

Safety Factor (high risk)
 Correction factor for rock grading (angular)
 Correction factor for rock grading (well graded)
 Bed slope
 flow per unit width
 Specific gravity of rock (granite)
 Mean Rock size of which 50% are smaller
 Adopted d₅₀
 Size distribution d50/d90 = 0.8

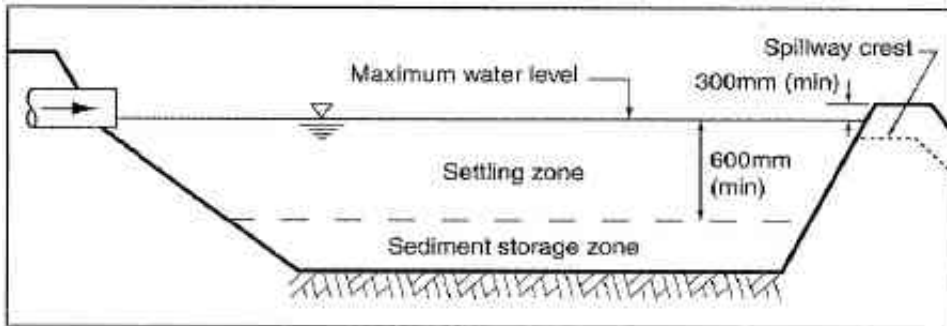
8) Dissapator Length

Min. length of dissipator	3.86	m
Recess depth	0.414	m

Catchment and Creeks, Energy Dissipators, Table 1 - Energy Dissipators
 Catchment and Creeks, Energy Dissipators, Table 2

42386 Bruce Highway, Bluewater

Sediment Basin Design



INPUT

Catchment (SB1)

1) Proposed Sediment Basin Dimensions

Parameter	Value	Comments
Basin Type	D	To be confirmed upon receive of geotechnical results
Catchment (ha)	3.28	
Batter Slope (1 on x)	4	Assumed batter slope
Top Length (m)	51.6	IECA Min. desirable length to width ratio 3:1 or install baffles
Bottom Width (m)	17	Assumed dimension
Bottom Length (m)	38	
Design Water Depth (m)	1.40	
Freeboard (m)	0.3	IECA minimum freeboard;
Total Basin Depth (m)	1.70	Overall depth including freeboard

2) Settling Zone & Sediment Storage Zone

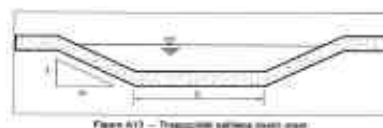
Parameter	Units	Value	Comments
Batter slope	m/m	0.250	
Volumetric runoff coefficient, C_v	-	1.00	Assumed worse case compacted clay
Catchment area, A	ha	3.28	
Constant, K_1	-	17	IECA Appendix B - Table B4 (2008)
Constant, K_2	-	11.2	$y\% = 80\%$ - Basins with a design life >6 months
Average rainfall intensity, $I_{(10yr,24hr)}$	mm/hr	12.05	Refer IFD
Rainfall depth, $R_{(y\%,1-day)}$	-	216.0	$R = K_1 \cdot I_{(10yr,24hr)} + K_2$
Settling volume, V_s	m ³	708	DETSI Stormwater and environmentally relevant activities $V_s = R \cdot C_v \cdot A$
Sediment storage volume	m ³	354	DETSI Stormwater and environmentally relevant activities, IECA Table B8 - 50% of settling volume
Total Sediment Basin Volume required	m ³	1063	

3) Proposed Sediment Basin Dimension Checks

Parameter	Units	Value	Comments
Basin Design Depth	m	1.40	
Top Width	m	28.2	
Top Length	m	49.2	
Bottom Width	m	17	
Bottom Length	m	38	
Proposed Sediment Basin Volume	m ³	1182	OK: Equal or greater than total volume required

4) Proposed Settling Zone volume and depth

Parameter	Units	Value	Comments
Proposed Settling Depth	m	0.7	Iterate
Top Width	m	28.2	
Top Length	m	49.2	
Bottom Width	m	22.6	
Bottom Length	m	43.6	
Proposed Settling Volume	m ³	767	OK: Equal or greater than Settling Volume required



5) Trapezoidal Spillway Wier Crest

Parameter	Units	Value	Comments
ARI 50 Flow	m ³ /s	1.00	
Water Depth	m	0.15	Water depth at ARI 50 flow
Spillway Slope (1 on x)	m	4	
Spillway Base Width	m	2.5	
Flow (Q)	m ³ /s	1.01	OK: Equal or greater than ARI 50 Flow

6) Minimum Sediment Basin Sizing

Batter Slope (1 on x)	4	
Basin Top of Bank Width	30.60	m
Basin Top of Bank Length	51.60	m
Settling Zone Depth	0.70	m
Sediment Storage Depth	0.70	m
Basin Design Depth	1.40	m
Freeboard	0.30	m
Overall Basin Depth incl. freeboard	1.70	m
Sediment Basin Storage Capacity	1182	m ³

7) Rock Size

SF	1.50	
k ₁	1	
k ₂	1.05	
S _O	0.263	m/m
q	0.401	m ³ /s/m
Sr	2.600	
d ₅₀	0.293	m
Adopted d ₅₀	300	mm
Minimum thickness	0.469	m

Safety Factor (high risk)
 Correction factor for rock grading (angular)
 Correction factor for rock grading (well graded)
 Bed slope
 flow per unit width
 Specific gravity of rock (granite)
 Mean Rock size of which 50% are smaller
 Adopted d₅₀
 Size distribution d50/d90 = 0.8

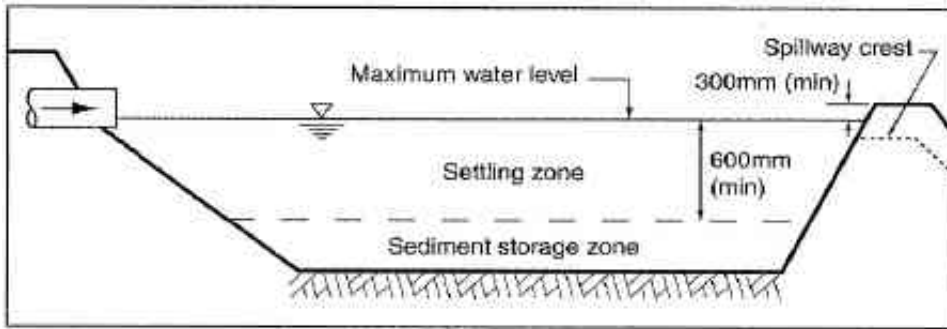
8) Dissapator Length

Min. length of dissipator	3.86	m
Recess depth	0.414	m

Catchment and Creeks, Energy Dissipators, Table 1 - Energy Dissipators
 Catchment and Creeks, Energy Dissipators, Table 2

42386 Bruce Highway, Bluewater

Sediment Basin Design



INPUT

Catchment (SB1)

1) Proposed Sediment Basin Dimensions

Parameter	Value	Comments
Basin Type	D	To be confirmed upon receive of geotechnical results
Catchment (ha)	3.56	
Batter Slope (1 on x)	4	Assumed batter slope
Top Length (m)	60.8	IECA Min. desirable length to width ratio 3:1 or install baffles
Bottom Width (m)	16	Assumed dimension
Bottom Length (m)	48	
Design Water Depth (m)	1.30	
Freeboard (m)	0.3	IECA minimum freeboard;
Total Basin Depth (m)	1.60	Overall depth including freeboard

2) Settling Zone & Sediment Storage Zone

Parameter	Units	Value	Comments
Batter slope	m/m	0.250	
Volumetric runoff coefficient, C_v	-	1.00	Assumed worse case compacted clay
Catchment area, A	ha	3.56	
Constant, K_1	-	17	IECA Appendix B - Table B4 (2008)
Constant, K_2	-	11.2	$y\% = 80\%$ - Basins with a design life >6 months
Average rainfall intensity, $I_{(10yr,24hr)}$	mm/hr	12.05	Refer IFD
Rainfall depth, $R_{(y\%,1-day)}$	-	216.0	$R = K_1 \cdot I_{(10yr,24hr)} + K_2$
Settling volume, V_s	m ³	769	DETSI Stormwater and environmentally relevant activities $V_s = R \cdot C_v \cdot A$
Sediment storage volume	m ³	384	DETSI Stormwater and environmentally relevant activities, IECA Table B8 - 50% of settling volume
Total Sediment Basin Volume required	m ³	1153	

3) Proposed Sediment Basin Dimension Checks

Parameter	Units	Value	Comments
Basin Design Depth	m	1.30	
Top Width	m	26.4	
Top Length	m	58.4	
Bottom Width	m	16	
Bottom Length	m	48	
Proposed Sediment Basin Volume	m ³	1262	OK: Equal or greater than total volume required

4) Proposed Settling Zone volume and depth

Parameter	Units	Value	Comments
Proposed Settling Depth	m	0.65	Iterate
Top Width	m	26.4	
Top Length	m	58.4	
Bottom Width	m	21.2	
Bottom Length	m	53.2	
Proposed Settling Volume	m ³	805	OK: Equal or greater than Settling Volume required



Figure A13 - Trapezoidal spillway weir crest

5) Trapezoidal Spillway Wier Crest

Parameter	Units	Value	Comments
ARI 50 Flow	m ³ /s	1.09	
Water Depth	m	0.16	Water depth at ARI 50 flow
Spillway Slope (1 on m)	m	4	
Spillway Base Width	m	2.5	
Flow (Q)	m ³ /s	1.14	OK: Equal or greater than ARI 50 Flow

6) Minimum Sediment Basin Sizing

Batter Slope (1 on x)	4	
Basin Top of Bank Width	28.80	m
Basin Top of Bank Length	60.80	m
Settling Zone Depth	0.65	m
Sediment Storage Depth	0.65	m
Basin Design Depth	1.30	m
Freeboard	0.30	m
Overall Basin Depth incl. freeboard	1.60	m
Sediment Basin Storage Capacity	1262	m ³

7) Rock Size

SF	1.50	
k ₁	1	
k ₂	1.05	
S _O	0.263	m/m
q	0.436	m ³ /s/m
Sr	2.600	
d ₅₀	0.309	m
Adopted d ₅₀	300	mm
Minimum thickness	0.494	m

Safety Factor (high risk)
 Correction factor for rock grading (angular)
 Correction factor for rock grading (well graded)
 Bed slope
 flow per unit width
 Specific gravity of rock (granite)
 Mean Rock size of which 50% are smaller
 Adopted d₅₀
 Size distribution d50/d90 = 0.8

8) Dissapator Length

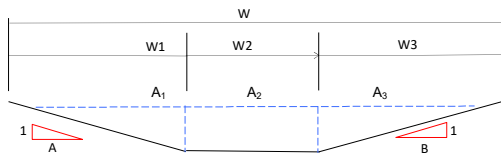
Min. length of dissipator	3.86	m
Recess depth	0.414	m

Catchment and Creeks, Energy Dissipators, Table 1 - Energy Dissipators
 Catchment and Creeks, Energy Dissipators, Table 2

42386 Bruce Highway, Bluewater

Open drain - Trapezoidal Shaped

Mannings



Channel Flow Properties									Flow Properties						Overall Drain Dimensions					
Location ID	Design flow rate Q_{des} (m ³ /s)	LHS Slope A (m)	RHS Slope B (m)	Base width (m)	Material	Manning's n	Channel Slope S (m/m)	Flow depth H (m)	Flow Area A (m ²)	Wetted perimeter P (m)	Hydraulic Radius R (m)	Capacity Q (m ³ /s)	Velocity V (m/s)	$D_{50} \times V_{ave}$	Freeboard (m)	Drain Depth D (m)	LHS Batter width W1 (m)	Base width W2 (m)	RHS Batter width W3 (m)	Total width W (m)
DC1	0.81	4.0	4.0	0.6	Excavated earth channel	0.025	0.050	0.26	0.420	2.725	0.100	0.810	1.927	0.497	0.150	0.408	1.631	0.600	1.631	3.862
DC2	0.57	4.0	4.0	0.6	Excavated earth channel	0.025	0.050	0.21	0.302	2.332	0.100	0.583	1.927	0.405	0.150	0.360	1.440	0.600	1.440	3.480
DC3	0.22	4.0	4.0	0.6	Excavated earth channel	0.025	0.050	0.20	0.280	2.249	0.100	0.540	1.927	0.385	0.150	0.350	1.400	0.600	1.400	3.400
DC4	0.67	4.0	4.0	0.6	Excavated earth channel	0.025	0.050	0.23	0.350	2.497	0.100	0.674	1.927	0.443	0.150	0.380	1.520	0.600	1.520	3.640

Note: All channels are to have min 0.15 freeboard. Overall dimensions does not include any required earth bunds

Input
Output

APPENDIX C

INSPECTION CHECK LIST

Site Inspection Checklist

Inspection Date:	Inspection by:		Location: Absolute Waste Bluewater	
Structure	Status W – Working R – Requires repairs M – Requires maintenance D – Requires redesign N – Not applicable	Urgency U – Urgent M – Maintenance Y – Yearly shutdown	Action required	Action completion date/ details
Drain 1 (D1) Catchment				
Diversion bank and channel around the perimeter				
Diversion bank around the stockpile area/processing area				
Clean water diversion drain at bottom of haul road				
Internal road				
Rubbish/waste around the site				

Structure	Status	Urgency	Action required	Action completion date/details
Drain 2 (D2) Catchment				
Diversion bank and channel around the perimeter				
Diversion bank around the stockpile area/processing area				
Internal Road				
Rubbish/waste around the site				
Drain 3 (D3) Catchment				
Diversion bank and channel around the perimeter				
Diversion bank around the stockpile area/processing area				
Clean water diversion at top of catchment				
Internal Road				
Rubbish/waste around the site				

Structure	Status	Urgency	Action required	Action completion date/ details
Stockpile Area				
Diversion channel/bank for clean water diversion around stockpile area				
Sediment fence and/or mulch row down stream of stockpile area				
Stockpile cover				
Rubbish/waste around the site				

Structure	Status	Urgency	Action required	Action completion date/ details
Sediment Basin (SB1)				
Sediment basin				
Release structures (Spillway, emergency spillway, outlet dissipation)				
Visual quality of water in pond: a. Other comments b. Colour c. Smell d. Volume (%) e. Flora Present f. Fauna Present				
Perimeter bank				
Clean water diversion around basin				
Rubbish/waste around the site				
Maintenance track				

Structure	Status	Urgency	Action required	Action completion date/ details
Sediment Basin (SB2)				
Sediment basin				
Release structures (Spillway, emergency spillway, outlet dissipation)				
Visual quality of water in pond: a. Other comments b. Colour c. Smell d. Volume (%) e. Flora Present f. Fauna Present				
Perimeter bank				
Clean water diversion around basin				
Rubbish/waste around the site				
Maintenance track				

Structure	Status	Urgency	Action required	Action completion date/ details
Sediment Basin (SB3)				
Sediment basin				
Release structures (Spillway, emergency spillway, outlet dissipation)				
Visual quality of water in pond: a. Other comments b. Colour c. Smell d. Volume (%) e. Flora Present f. Fauna Present				
Perimeter bank				
Clean water diversion around basin				
Rubbish/waste around the site				
Maintenance track				

Structure	Status	Urgency	Action required	Action completion date/ details
General				
Weeds infestations or unidentified plants				
Waste volumes on site: a. used oil b. used tyres c. steel d. general waste				
Evidence of unauthorised entry onto site				
Signage at entrance				
Other Comments				

APPENDIX D

SOIL/WATER SOLUTION PROCEDURE, JAR TEST
PROCEDURE, FLOC PERFORMANCE REPORT,
SEDIMENT BASIN PERFORMANCE REPORT

Soil / water solution procedure

1. Obtain a soil sample from representative soils to be exposed during the life cycle of the sediment basin. Where multiple soil types are likely to be encountered within the life cycle of the basin, jar test should be undertaken for the range of soil types.
2. Crush the soil (id dry) and shake through a 2mm sieve to remove any excess coarse material.
3. Place approximately 100 grams of soil into 10 litres of water. Ensure the water has the same temperature as the expected water temperature within the sediment basin during the settling phase.
4. Stir rapidly until soil particles are suspended.
5. Leave solution for 10 minutes.
6. Stir rapidly to resuspend any settled material.
7. Decant into beaker.

Jar testing procedure

1. Fill the appropriate number of (matched) 1000mL transparent beakers with well mixed test water, using a 1000mL graduate. Adjust the water temperature to an appropriate value representative of the expected sediment basin water temperature. Record starting pH, temperature and turbidity.
2. Place the filled beaker on the gang stirrer, with the paddles positioned identically in each beaker.
3. Mix the beakers at 40-50 rpm for 30 seconds. Discontinue mixing until coagulant or flocculant addition is completed.
4. Leave the first beaker as a control and add increasing dosages of the first coagulant/ flocculant to subsequent beakers. Inject coagulant/ flocculant solution as quickly as possible, below the liquid level and about halfway between the stirrer shaft and the beaker wall.
5. Increase the mixing speed to 100-125 rpm for 15-30 seconds (rapid mix).
6. Reduce the mixing to 40 rpm and continue the slow mix for up to 5 minutes.
7. Turn the mixer off and allow settling to occur.
8. After settling for a period of time, note clarity and record on Floc Performance Report. Record pH and turbidity.
9. Remove the jars from the gang stirrer, empty the contents and thoroughly clean the beakers.
10. Repeat the procedure as required for different chemicals, dose rates or soil/water mixtures.

Floc Performance Report

BASIN IDENTIFICATION CODE/NUMBER:

SITE / PROJECT:

PREPARED BY: DATE:

Chemical name:		Soil description:				
Dose rate:	0.00 Control					
Starting pH						
Starting turbidity						
Clarity ^[1] after 5 mins (mm)						
Clarity ^[1] after 15 mins (mm)						
Clarity ^[1] after 30 mins (mm)						
Clarity ^[1] after 60 mins (mm)						
Final pH						
Final turbidity						

Chemical name:		Soil description:				
Dose rate:	0.00 Control					
Starting pH						
Starting turbidity						
Clarity ^[1] after 5 mins (mm)						
Clarity ^[1] after 15 mins (mm)						
Clarity ^[1] after 30 mins (mm)						
Clarity ^[1] after 60 mins (mm)						
Final pH						
Final turbidity						

Note:

[1] For the purposes of a floc report, 'clarity' is defined as a level of turbidity that is likely to meet discharge requirements at a depth from the water level surface in the beaker. Clarity can be estimated visually or with the use of a turbidity meter.

BASIN PERFORMANCE REPORT

Site / basin identification: _____

Inspector: _____

Date / time: _____

Recent rainfall: _____

Water quality in basin: NTU: _____ pH: _____

Water level in basin: _____

Issue Item		Potential Issue / Action Required (Y/N)	Comments/Action Undertaken
Inflow channel	Channel/pipe overtopped		
	Scour in channel		
	Chemical not mixing with inflow runoff		
	Catchment bypassing channel		
	Lateral inflow to main basin cell		
	Other		
Chemical & dosing	Chemical not working		
	No dosing		
	Incorrect dose rate		
	Other		
Fore bay	Sediment re-suspension		
	Other		
Level spreader	Concentrated flow over level spreader		
	Scour on backside of level spreader		
	Other		

Issue Item		Potential Issue / Action Required (Y/N)	Comments/Action Undertaken
Setting pond	Flow short circuiting in main basin		
	Erosion on side of basin batters		
	Other		
In-line baffles	Flow concentrating to one side of baffle		
	Flow conveyed over the top of the baffle		
	Flow restricted through baffle too much		
	Flow passes through baffle too quickly		
	Other		
Decant system	Decant sinks below surface		
	Decant raised above water level		
	Decant dropped on one side		
	Decant blocked		
	Decants concentrating flow in basin		
	Other		
Emergency spillway	Concentrated flow on spillway		
	Spillway too low		
	Spillway too high		
	Other		
Other General Comments			

Refer to troubleshooting guide (Table B43) for details on potential remediation for issue items.

APPENDIX E

HELP MODELLING RESULTS

HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE
HELP MODEL VERSION 4.0 BETA (2018)
DEVELOPED BY USEPA NATIONAL RISK MANAGEMENT RESEARCH LABORATORY

Title: Bluewater **Simulated On:** 26/05/2026 10:06

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)

MSW with Channeling

Material Texture Number 19

Thickness	=	1000 centimeters
Porosity	=	0.168 vol/vol
Field Capacity	=	0.073 vol/vol
Wilting Point	=	0.019 vol/vol
Initial Soil Water Content	=	0.0714 vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-03 cm/sec

Layer 2

Type 2 - Lateral Drainage Layer

G - Gravel

Material Texture Number 21

Thickness	=	30 centimeters
Porosity	=	0.397 vol/vol
Field Capacity	=	0.032 vol/vol
Wilting Point	=	0.013 vol/vol
Initial Soil Water Content	=	0.0596 vol/vol
Effective Sat. Hyd. Conductivity	=	3.00E-01 cm/sec
Slope	=	2 %
Drainage Length	=	200 meters

Layer 3

Type 3 - Barrier Soil Liner

Liner Soil (High)

Material Texture Number 16

Thickness	=	30 centimeters
Porosity	=	0.427 vol/vol
Field Capacity	=	0.418 vol/vol
Wilting Point	=	0.367 vol/vol
Initial Soil Water Content	=	0.427 vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E-07 cm/sec

Note: Initial moisture content of the layers and snow water were computed as nearly steady-state values by HELP.

General Design and Evaporative Zone Data

SCS Runoff Curve Number	=	78.5
Fraction of Area Allowing Runoff	=	0 %
Area projected on a horizontal plane	=	1 Hectares
Evaporative Zone Depth	=	30 cm
Initial Water in Evaporative Zone	=	0.57 cm
Upper Limit of Evaporative Storage	=	5.04 cm
Lower Limit of Evaporative Storage	=	0.57 cm
Initial Snow Water	=	0 cm
Initial Water in Layer Materials	=	85.98 cm
Total Initial Water	=	85.98 cm
Total Subsurface Inflow	=	0 mm/year

Note: SCS Runoff Curve Number was calculated by HELP.

Evapotranspiration and Weather Data

Station Latitude	=	25.78 Degrees
Maximum Leaf Area Index	=	0
Start of Growing Season (Julian Date)	=	0 days
End of Growing Season (Julian Date)	=	365 days
Average Wind Speed	=	16.05 kph
Average 1st Quarter Relative Humidity	=	69 %
Average 2nd Quarter Relative Humidity	=	61 %
Average 3rd Quarter Relative Humidity	=	57 %
Average 4th Quarter Relative Humidity	=	60 %

Note: Evapotranspiration data was obtained for ,

Normal Mean Monthly Precipitation (mm)

<u>Jan/Jul</u>	<u>Feb/Aug</u>	<u>Mar/Sep</u>	<u>Apr/Oct</u>	<u>May/Nov</u>	<u>Jun/Dec</u>
335.7967	430.8067	237.5533	90.37	33.01333	21.41333
21.75	22.55667	14.86333	28.08333	75.03667	157.7533

Note: Precipitation was simulated using NOAA data for the following weather stations:
2.1, 2.1, 2.1

Normal Mean Monthly Temperature (Degrees Celsius)

<u>Jan/Jul</u>	<u>Feb/Aug</u>	<u>Mar/Sep</u>	<u>Apr/Oct</u>	<u>May/Nov</u>	<u>Jun/Dec</u>
28.2	28.1	27.4	25.6	22.9	20.7
19.9	20.7	23.2	25.7	27.1	28.2

Note: Temperature was simulated using NOAA data for the following weather stations:
 2.1, 2.1, 2.1
 Solar radiation was simulated based on HELP V4 weather simulation for:
 Lat/Long: 25.78/-80.2

Daily Output for Year 1

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone			
	Air	Soil				Water (cm/cm)	Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
1			2.10	0.000	0.688	0.0237	2.1432	1.1105	9.26E-02
2			1.00	0.000	0.581	0.0251	1.8308	0.9486	9.17E-02
3			1.20	0.000	0.631	0.0270	1.5607	0.8087	9.09E-02
4			0.20	0.000	0.744	0.0252	1.3271	0.6876	9.02E-02
5			21.00	0.000	0.844	0.0924	1.1251	0.5830	8.96E-02
6	*Note: head c		182.00	0.000	3.036	0.1407	1.0803	0.5598	8.95E-02
7			71.00	0.000	4.789	0.0947	0.9520	0.4933	8.91E-02
8			69.60	0.000	5.345	0.0986	1.4121	0.7317	9.05E-02
9			10.40	0.000	7.044	0.0684	3.2800	1.6995	9.58E-02
10			0.00	0.000	6.320	0.0370	15.1909	7.8713	1.30E-01
11			0.00	0.000	5.408	0.0190	25.1961	13.0556	1.59E-01
12			0.00	0.000	0.000	0.0190	40.3404	15.5043	2.03E-01
13			0.00	0.000	0.000	0.0190	52.9968	15.5845	2.39E-01
14			0.00	0.000	0.000	0.0190	58.6464	15.5943	2.55E-01
15			0.00	0.000	0.000	0.0190	89.6799	16.0257	3.45E-01
16			0.00	0.000	0.000	0.0190	59.2368	15.5953	2.57E-01
17			0.00	0.000	0.000	0.0190	56.5093	15.5906	2.49E-01
18			0.20	0.000	0.178	0.0191	52.1833	15.5831	2.37E-01
19			0.00	0.000	0.012	0.0190	46.5799	15.5734	2.21E-01
20			0.00	0.000	0.007	0.0190	39.9367	15.5619	2.01E-01
21			0.20	0.000	0.150	0.0192	31.8720	15.3771	1.78E-01

22	0.00	0.000	0.029	0.0191	27.8953	14.4542	1.67E-01
23	0.00	0.000	0.017	0.0190	26.0474	13.4967	1.61E-01
24	0.60	0.000	0.142	0.0206	24.3080	12.5954	1.56E-01
25	0.00	0.000	0.301	0.0195	22.6801	11.7519	1.52E-01
26	9.50	0.000	0.573	0.0493	21.1635	10.9661	1.47E-01
27	38.00	0.000	0.788	0.1081	19.7717	10.2449	1.43E-01
28	0.00	0.000	6.226	0.0369	17.8310	9.2393	1.38E-01
29	0.00	0.000	5.368	0.0190	16.4907	8.5448	1.34E-01
30	0.00	0.000	0.000	0.0190	16.0699	8.3267	1.33E-01
31	0.00	0.000	0.000	0.0190	15.5953	8.0808	1.31E-01
32	0.00	0.000	0.000	0.0190	15.0714	7.8094	1.30E-01
33	0.00	0.000	0.000	0.0190	14.5179	7.5226	1.28E-01
34	0.00	0.000	0.000	0.0190	13.7297	7.1142	1.26E-01
35	0.30	0.000	0.199	0.0193	11.9451	6.1895	1.21E-01
36	25.20	0.000	1.223	0.0993	10.3066	5.3405	1.16E-01
37	17.20	0.000	6.623	0.0771	8.9241	4.6241	1.12E-01
38	0.00	0.000	5.214	0.0457	8.0036	4.1472	1.09E-01
39	0.00	0.000	5.165	0.0285	7.4287	3.8493	1.08E-01
40	0.00	0.000	2.858	0.0190	7.9025	4.0947	1.09E-01
41	0.00	0.000	0.000	0.0190	8.3413	4.3221	1.10E-01
42	0.00	0.000	0.000	0.0190	8.5697	4.4404	1.11E-01
43	0.00	0.000	0.000	0.0190	7.6642	3.9713	1.08E-01
44	0.00	0.000	0.000	0.0190	6.6049	3.4224	1.05E-01
45	0.00	0.000	0.000	0.0190	5.6889	2.9477	1.03E-01
46	0.00	0.000	0.000	0.0190	4.8968	2.5373	1.01E-01
47	0.00	0.000	0.000	0.0190	4.2119	2.1824	9.85E-02
48	0.00	0.000	0.000	0.0190	3.6196	1.8755	9.68E-02
49	0.00	0.000	0.000	0.0190	3.1075	1.6102	9.53E-02
50	0.00	0.000	0.000	0.0190	2.6646	1.3807	9.41E-02

51	0.00	0.000	0.000	0.0190	2.2817	1.1823	9.30E-02
52	0.00	0.000	0.000	0.0190	1.9506	1.0107	9.20E-02
53	0.00	0.000	0.000	0.0190	1.6643	0.8624	9.12E-02
54	0.00	0.000	0.000	0.0190	1.4167	0.7341	9.05E-02
55	2.60	0.000	0.348	0.0265	1.2026	0.6231	8.99E-02
56	2.40	0.000	0.338	0.0334	1.0175	0.5272	8.93E-02
57	0.00	0.000	0.435	0.0319	0.8574	0.4443	8.89E-02
58	0.00	0.000	0.516	0.0302	0.7189	0.3725	8.85E-02
59	0.00	0.000	0.501	0.0285	0.5992	0.3105	8.81E-02
60	0.00	0.000	0.487	0.0269	0.4957	0.2569	8.78E-02
61	0.00	0.000	0.454	0.0254	0.4062	0.2105	8.76E-02
62	0.20	0.000	0.550	0.0242	0.3288	0.1704	8.73E-02
63	1.40	0.000	0.563	0.0270	0.2619	0.1357	8.72E-02
64	17.30	0.000	0.552	0.0829	0.2041	0.1057	8.70E-02
65	0.20	0.000	0.581	0.0485	0.1564	0.0810	8.68E-02
66	0.00	0.000	0.515	0.0452	0.4554	0.2360	8.77E-02
67	0.00	0.000	0.505	0.0429	1.3087	0.6781	9.02E-02
68	0.00	0.000	0.495	0.0397	2.4195	1.2537	9.34E-02
69	0.00	0.000	0.480	0.0381	2.3451	1.2151	9.32E-02
70	0.00	0.000	0.477	0.0365	2.0054	1.0391	9.22E-02
71	0.40	0.000	0.529	0.0361	1.7116	0.8869	9.13E-02
72	13.80	0.000	0.521	0.0804	1.4576	0.7553	9.06E-02
73	8.60	0.000	4.537	0.0647	1.3465	0.6977	9.03E-02
74	0.50	0.000	4.900	0.0462	1.2617	0.6538	9.00E-02
75	0.20	0.000	5.670	0.0279	1.9220	0.9959	9.19E-02
76	0.00	0.000	2.346	0.0191	2.9658	1.5368	9.49E-02
77	0.00	0.000	0.017	0.0190	2.7909	1.4461	9.44E-02
78	0.00	0.000	0.004	0.0190	2.3909	1.2389	9.33E-02
79	0.00	0.000	0.001	0.0190	2.0450	1.0596	9.23E-02

80	0.00	0.000	0.000	0.0190	1.7459	0.9046	9.14E-02
81	0.00	0.000	0.000	0.0190	1.4873	0.7706	9.07E-02
82	0.00	0.000	0.000	0.0190	1.2636	0.6548	9.00E-02
83	0.50	0.000	0.138	0.0202	1.0702	0.5545	8.95E-02
84	0.00	0.000	0.189	0.0196	0.9030	0.4679	8.90E-02
85	0.00	0.000	0.137	0.0191	0.7584	0.3930	8.86E-02
86	0.00	0.000	0.029	0.0190	0.6334	0.3282	8.82E-02
87	0.00	0.000	0.006	0.0190	0.5252	0.2722	8.79E-02
88	0.00	0.000	0.001	0.0190	0.4318	0.2237	8.76E-02
89	0.00	0.000	0.000	0.0190	0.3509	0.1818	8.74E-02
90	0.00	0.000	0.000	0.0190	0.2810	0.1456	8.72E-02
91	0.00	0.000	0.000	0.0190	0.2205	0.1143	8.70E-02
92	0.00	0.000	0.000	0.0190	0.1683	0.0872	8.69E-02
93	0.00	0.000	0.000	0.0190	0.1231	0.0638	8.68E-02
94	0.00	0.000	0.000	0.0190	0.0840	0.0435	8.66E-02
95	0.00	0.000	0.000	0.0190	0.0502	0.0260	8.65E-02
96	0.00	0.000	0.000	0.0190	0.0210	0.0109	8.65E-02
97	0.00	0.000	0.000	0.0190	0.0012	0.0005	1.64E-02
98	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
104	10.20	0.000	0.381	0.0517	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.435	0.0503	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.469	0.0486	0.0022	0.0011	2.16E-02
107	0.00	0.000	0.461	0.0467	0.0113	0.0057	5.19E-02
108	0.00	0.000	0.454	0.0452	0.0096	0.0049	6.53E-02

109	0.00	0.000	0.447	0.0437	0.0000	0.0000	0.00E+00
110	1.50	0.000	0.494	0.0470	0.0000	0.0000	0.00E+00
111	1.20	0.000	0.488	0.0494	0.0000	0.0000	0.00E+00
112	0.40	0.000	0.481	0.0490	0.0032	0.0015	3.35E-02
113	0.00	0.000	0.422	0.0474	0.0018	0.0009	2.16E-02
114	0.00	0.000	0.416	0.0457	0.0069	0.0035	6.21E-02
115	0.00	0.000	0.411	0.0439	0.0215	0.0111	8.65E-02
116	8.00	0.000	0.458	0.0689	0.0214	0.0111	8.65E-02
117	0.00	0.000	0.400	0.0585	0.0861	0.0446	8.66E-02
118	0.00	0.000	0.396	0.0537	0.6813	0.3530	8.84E-02
119	0.00	0.000	0.391	0.0508	0.8844	0.4583	8.89E-02
120	0.90	0.000	0.438	0.0523	0.8133	0.4214	8.87E-02
121	4.00	0.000	0.433	0.0639	0.6990	0.3622	8.84E-02
122	1.50	0.000	0.429	0.0627	0.7025	0.3640	8.84E-02
123	0.00	0.000	0.374	0.0575	0.9600	0.4974	8.92E-02
124	0.00	0.000	0.370	0.0541	1.0603	0.5494	8.95E-02
125	0.00	0.000	0.366	0.0512	1.0561	0.5472	8.94E-02
126	0.00	0.000	0.362	0.0484	1.0179	0.5275	8.93E-02
127	7.70	0.000	0.409	0.0682	0.9358	0.4849	8.91E-02
128	0.00	0.000	0.355	0.0581	1.0594	0.5489	8.94E-02
129	0.00	0.000	0.352	0.0530	1.6347	0.8470	9.11E-02
130	0.00	0.000	0.348	0.0503	1.7725	0.9184	9.15E-02
131	0.00	0.000	0.345	0.0488	1.6032	0.8307	9.10E-02
132	1.20	0.000	0.392	0.0515	1.3711	0.7104	9.03E-02
133	0.00	0.000	0.339	0.0498	1.1689	0.6057	8.98E-02
134	0.00	0.000	0.336	0.0476	1.0584	0.5484	8.94E-02
135	0.00	0.000	0.333	0.0456	0.9706	0.5029	8.92E-02
136	0.00	0.000	0.330	0.0438	0.8810	0.4565	8.89E-02
137	0.00	0.000	0.328	0.0423	0.7859	0.4072	8.87E-02

138	0.00	0.000	0.325	0.0408	0.6898	0.3574	8.84E-02
139	0.00	0.000	0.315	0.0398	0.5898	0.3056	8.81E-02
140	0.00	0.000	0.320	0.0387	0.4876	0.2526	8.78E-02
141	0.00	0.000	0.317	0.0377	0.3992	0.2068	8.75E-02
142	0.00	0.000	0.315	0.0366	0.3227	0.1672	8.73E-02
143	0.00	0.000	0.312	0.0356	0.2566	0.1330	8.71E-02
144	0.00	0.000	0.310	0.0345	0.1995	0.1034	8.70E-02
145	0.00	0.000	0.308	0.0335	0.1501	0.0778	8.68E-02
146	0.10	0.000	0.350	0.0327	0.1073	0.0556	8.67E-02
147	0.00	0.000	0.295	0.0317	0.0704	0.0365	8.66E-02
148	0.00	0.000	0.298	0.0307	0.0384	0.0199	8.65E-02
149	0.00	0.000	0.298	0.0297	0.0108	0.0055	6.95E-02
150	0.00	0.000	0.297	0.0287	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.295	0.0277	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.293	0.0268	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.291	0.0258	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.289	0.0248	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.288	0.0239	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.286	0.0229	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.284	0.0220	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.282	0.0210	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.281	0.0201	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.279	0.0192	0.0000	0.0000	0.00E+00
161	4.90	0.000	0.216	0.0348	0.0000	0.0000	0.00E+00
162	2.20	0.000	0.240	0.0413	0.0000	0.0000	0.00E+00
163	2.10	0.000	0.305	0.0473	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.248	0.0465	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.262	0.0456	0.0000	0.0000	0.00E+00
166	3.70	0.000	0.317	0.0569	0.0000	0.0000	0.00E+00

167	4.40	0.000	0.324	0.0630	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.266	0.0588	0.2685	0.1391	6.56E-02
169	0.00	0.000	0.265	0.0532	0.9450	0.4896	8.91E-02
170	0.00	0.000	0.264	0.0507	1.0433	0.5406	8.94E-02
171	0.00	0.000	0.262	0.0484	1.0012	0.5188	8.93E-02
172	0.00	0.000	0.261	0.0464	0.9435	0.4889	8.91E-02
173	0.00	0.000	0.259	0.0446	0.8742	0.4530	8.89E-02
174	0.00	0.000	0.258	0.0430	0.7992	0.4141	8.87E-02
175	0.00	0.000	0.257	0.0415	0.7232	0.3747	8.85E-02
176	0.00	0.000	0.253	0.0407	0.6323	0.3276	8.82E-02
177	0.00	0.000	0.254	0.0399	0.5243	0.2717	8.79E-02
178	0.20	0.000	0.311	0.0395	0.4309	0.2233	8.76E-02
179	0.00	0.000	0.252	0.0386	0.3502	0.1815	8.74E-02
180	0.00	0.000	0.250	0.0378	0.2804	0.1453	8.72E-02
181	0.00	0.000	0.248	0.0370	0.2200	0.1140	8.70E-02
182	0.00	0.000	0.248	0.0362	0.1678	0.0870	8.69E-02
183	0.00	0.000	0.247	0.0353	0.1227	0.0636	8.68E-02
184	0.00	0.000	0.246	0.0345	0.0837	0.0433	8.66E-02
185	0.00	0.000	0.245	0.0337	0.0499	0.0259	8.65E-02
186	0.00	0.000	0.244	0.0329	0.0207	0.0107	8.65E-02
187	0.00	0.000	0.242	0.0321	0.0011	0.0004	1.56E-02
188	0.00	0.000	0.241	0.0313	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.240	0.0305	0.0000	0.0000	0.00E+00
190	0.40	0.000	0.302	0.0308	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.238	0.0300	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.237	0.0292	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.223	0.0285	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.235	0.0277	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.227	0.0269	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.232	0.0262	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.232	0.0254	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.231	0.0246	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.230	0.0239	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.229	0.0231	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.228	0.0221	0.0099	0.0052	6.48E-02
202	0.00	0.000	0.227	0.0213	0.0002	0.0000	2.32E-03
203	0.00	0.000	0.227	0.0206	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.226	0.0198	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.225	0.0191	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.021	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.90	0.000	0.087	0.0217	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.083	0.0214	0.0000	0.0000	0.00E+00
243	4.30	0.000	0.168	0.0352	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.162	0.0347	0.0000	0.0000	3.06E-07
245	0.00	0.000	0.179	0.0341	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.185	0.0335	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.180	0.0329	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.177	0.0323	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.177	0.0317	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.176	0.0311	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.176	0.0305	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.176	0.0299	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.175	0.0293	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.174	0.0287	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.174	0.0282	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.173	0.0276	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.173	0.0270	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.178	0.0264	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.183	0.0258	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.182	0.0252	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.182	0.0246	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.181	0.0240	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.181	0.0234	0.0000	0.0000	0.00E+00
264	1.50	0.000	0.263	0.0275	0.0000	0.0000	0.00E+00
265	1.00	0.000	0.263	0.0300	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.179	0.0294	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.179	0.0288	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.178	0.0282	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.180	0.0276	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.183	0.0270	0.0001	0.0000	2.26E-03
271	0.00	0.000	0.177	0.0264	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.176	0.0258	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.176	0.0252	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.176	0.0246	0.0000	0.0000	0.00E+00
275	1.70	0.000	0.266	0.0294	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.175	0.0288	0.0000	0.0000	0.00E+00
277	0.20	0.000	0.261	0.0286	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.180	0.0280	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.179	0.0274	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.176	0.0268	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.173	0.0263	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.172	0.0257	0.0000	0.0000	0.00E+00

283	56.00	0.000	0.272	0.1106	0.0449	0.0233	2.17E-02
284	31.40	0.000	5.322	0.0869	0.1498	0.0776	8.68E-02
285	5.20	0.000	5.000	0.0589	0.2630	0.1363	8.72E-02
286	0.80	0.000	5.901	0.0413	1.2976	0.6724	9.01E-02
287	0.00	0.000	6.401	0.0199	3.4912	1.8090	9.65E-02
288	0.00	0.000	0.243	0.0191	5.4046	2.8005	1.02E-01
289	0.00	0.000	0.025	0.0190	6.8532	3.5511	1.06E-01
290	0.60	0.000	0.606	0.0190	7.9300	4.1090	1.09E-01
291	0.00	0.000	0.002	0.0190	8.7093	4.5128	1.11E-01
292	0.10	0.000	0.100	0.0190	9.2511	4.7936	1.13E-01
293	1.00	0.000	0.275	0.0214	9.6037	4.9762	1.14E-01
294	0.00	0.000	0.521	0.0197	9.8060	5.0811	1.15E-01
295	2.40	0.000	0.802	0.0250	9.7843	5.0698	1.15E-01
296	0.00	0.000	0.536	0.0232	8.6517	4.4830	1.11E-01
297	0.00	0.000	0.739	0.0208	7.4588	3.8648	1.08E-01
298	0.00	0.000	0.312	0.0197	6.4273	3.3303	1.05E-01
299	0.00	0.000	0.161	0.0192	5.5353	2.8682	1.02E-01
300	0.00	0.000	0.040	0.0190	4.7640	2.4685	1.00E-01
301	0.00	0.000	0.010	0.0190	4.0970	2.1229	9.82E-02
302	0.00	0.000	0.003	0.0190	3.5203	1.8241	9.65E-02
303	0.00	0.000	0.000	0.0190	3.0216	1.5657	9.51E-02
304	0.00	0.000	0.000	0.0190	2.5904	1.3422	9.39E-02
305	0.00	0.000	0.000	0.0190	2.2175	1.1490	9.28E-02
306	0.00	0.000	0.000	0.0190	1.8951	0.9820	9.19E-02
307	0.00	0.000	0.000	0.0190	1.6163	0.8375	9.11E-02
308	0.00	0.000	0.000	0.0190	1.3752	0.7126	9.04E-02
309	0.00	0.000	0.000	0.0190	1.1667	0.6045	8.98E-02
310	0.00	0.000	0.000	0.0190	0.9864	0.5111	8.92E-02
311	1.60	0.000	0.249	0.0235	0.8305	0.4303	8.88E-02

312	0.00	0.000	0.235	0.0227	0.6957	0.3605	8.84E-02
313	0.00	0.000	0.369	0.0215	0.5792	0.3001	8.81E-02
314	0.00	0.000	0.361	0.0203	0.4784	0.2479	8.78E-02
315	0.00	0.000	0.300	0.0193	0.3912	0.2027	8.75E-02
316	0.00	0.000	0.064	0.0191	0.3159	0.1637	8.73E-02
317	0.00	0.000	0.016	0.0190	0.2507	0.1299	8.71E-02
318	0.00	0.000	0.004	0.0190	0.1944	0.1007	8.70E-02
319	0.00	0.000	0.001	0.0190	0.1456	0.0755	8.68E-02
320	0.00	0.000	0.000	0.0190	0.1035	0.0536	8.67E-02
321	0.00	0.000	0.000	0.0190	0.0671	0.0347	8.66E-02
322	0.00	0.000	0.000	0.0190	0.0355	0.0184	8.65E-02
323	18.60	0.000	0.475	0.0794	0.0086	0.0043	6.10E-02
324	1.20	0.000	0.534	0.0516	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.440	0.0445	0.0241	0.0125	2.17E-02
326	0.60	0.000	0.536	0.0447	0.8496	0.4402	8.88E-02
327	0.00	0.000	0.428	0.0432	2.1437	1.1108	9.26E-02
328	12.80	0.000	0.525	0.0768	2.3147	1.1994	9.31E-02
329	0.00	0.000	6.545	0.0423	1.9791	1.0255	9.21E-02
330	0.00	0.000	0.416	0.0404	2.1820	1.1306	9.27E-02
331	0.00	0.000	0.411	0.0390	2.8853	1.4950	9.47E-02
332	0.00	0.000	0.405	0.0376	2.5619	1.3275	9.38E-02
333	0.00	0.000	0.400	0.0363	2.1929	1.1363	9.27E-02
334	0.00	0.000	0.396	0.0350	1.8738	0.9709	9.18E-02
335	0.00	0.000	0.391	0.0337	1.5978	0.8279	9.10E-02
336	0.00	0.000	0.386	0.0321	1.3714	0.7106	9.03E-02
337	0.00	0.000	0.382	0.0308	1.1770	0.6099	8.98E-02
338	0.00	0.000	0.378	0.0295	0.9953	0.5157	8.93E-02
339	0.00	0.000	0.374	0.0283	0.8382	0.4343	8.88E-02
340	0.00	0.000	0.370	0.0271	0.7024	0.3640	8.84E-02

341	0.00	0.000	0.366	0.0258	0.5849	0.3031	8.81E-02
342	0.00	0.000	0.362	0.0246	0.4834	0.2505	8.78E-02
343	0.00	0.000	0.359	0.0234	0.3955	0.2050	8.75E-02
344	5.70	0.000	0.468	0.0406	0.3346	0.1734	8.74E-02
345	2.70	0.000	0.465	0.0481	0.2715	0.1407	8.72E-02
346	8.80	0.000	0.462	0.0635	0.2534	0.1313	8.71E-02
347	0.00	0.000	5.311	0.0433	0.3715	0.1925	8.75E-02
348	0.00	0.000	0.345	0.0422	1.0241	0.5306	8.93E-02
349	8.10	0.000	0.458	0.0676	1.0787	0.5589	8.95E-02
350	0.50	0.000	4.926	0.0449	0.9960	0.5161	8.93E-02
351	1.20	0.000	6.170	0.0283	1.3179	0.6829	9.02E-02
352	0.00	0.000	2.296	0.0194	1.2536	0.6496	9.00E-02
353	0.60	0.000	0.374	0.0201	1.0860	0.5627	8.95E-02
354	0.00	0.000	0.176	0.0195	0.9166	0.4750	8.90E-02
355	1.00	0.000	0.387	0.0216	0.7702	0.3991	8.86E-02
356	0.00	0.000	0.539	0.0198	0.6436	0.3335	8.83E-02
357	0.00	0.000	0.166	0.0192	0.5341	0.2767	8.79E-02
358	5.00	0.000	0.575	0.0340	0.4394	0.2277	8.77E-02
359	8.90	0.000	0.757	0.0611	0.3576	0.1853	8.74E-02
360	13.00	0.000	0.965	0.0767	0.2868	0.1486	8.72E-02
361	0.00	0.000	6.062	0.0416	0.2255	0.1169	8.70E-02
362	0.00	0.000	5.939	0.0210	0.6596	0.3418	8.83E-02
363	0.00	0.000	0.596	0.0190	1.8560	0.9617	9.17E-02
364	0.00	0.000	0.000	0.0190	2.8129	1.4576	9.45E-02
365	0.00	0.000	0.000	0.0190	2.5180	1.3047	9.37E-02

* = Frozen (air or soil)

Annual Totals for Year 1			
	mm*	cubic meters	percent
Precipitation	749.80	7,498.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	217.980	2,179.8	29.07
Drainage Collected from Layer 2	508.0888	5,080.9	67.76
Percolation/Leakage through Layer 3	23.685667	236.9	3.16
Average Head on Top of Layer 3	3.3082 (cm)	---	---
Change in Water Storage	0.0451	0.4507	0.01
Soil Water at Start of Year	859.7870	8,597.9	114.67
Soil Water at End of Year	859.8321	8,598.3	114.67
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 2

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.000	0.0190		2.1549	1.1166	9.26E-02
2			0.00	0.000	0.000	0.0190		1.8409	0.9539	9.17E-02
3			2.80	0.000	0.536	0.0265		1.5694	0.8132	9.09E-02
4			8.40	0.000	0.753	0.0520		1.3347	0.6916	9.02E-02
5			0.40	0.000	0.930	0.0503		1.1317	0.5864	8.97E-02
6	*Note: head c		0.00	0.000	0.874	0.0474		0.9561	0.4954	8.92E-02
7			0.00	0.000	0.827	0.0446		0.8043	0.4168	8.87E-02
8			0.00	0.000	0.787	0.0419		0.6750	0.3498	8.83E-02
9			0.00	0.000	0.752	0.0392		0.5686	0.2946	8.80E-02
10			0.00	0.000	0.721	0.0368		0.4787	0.2481	8.78E-02
11			2.90	0.000	0.772	0.0439		0.3915	0.2029	8.75E-02
12			2.30	0.000	0.747	0.0491		0.3161	0.1638	8.73E-02
13			0.00	0.000	0.647	0.0469		0.2509	0.1300	8.71E-02
14			0.00	0.000	0.627	0.0448		0.1945	0.1008	8.70E-02
15			4.80	0.000	0.684	0.0586		0.1458	0.0755	8.68E-02
16			0.00	0.000	0.593	0.0560		0.1129	0.0585	8.67E-02
17			0.00	0.000	0.577	0.0519		0.1822	0.0944	8.69E-02
18			16.00	0.000	0.635	0.0895		0.2652	0.1374	8.72E-02
19			9.40	0.000	5.047	0.0671		0.3137	0.1625	8.73E-02
20			1.60	0.000	5.376	0.0507		0.3680	0.1907	8.75E-02
21			2.20	0.000	5.656	0.0374		1.2498	0.6476	9.00E-02

22	0.00	0.000	3.265	0.0265	2.3999	1.2435	9.33E-02
23	0.00	0.000	2.225	0.0191	3.4818	1.8041	9.64E-02
24	0.00	0.000	0.029	0.0190	3.3764	1.7495	9.61E-02
25	0.00	0.000	0.007	0.0190	2.8972	1.5012	9.47E-02
26	0.00	0.000	0.002	0.0190	2.4828	1.2865	9.35E-02
27	0.00	0.000	0.001	0.0190	2.1245	1.1008	9.25E-02
28	0.00	0.000	0.000	0.0190	1.8146	0.9403	9.16E-02
29	0.00	0.000	0.000	0.0190	1.5467	0.8014	9.09E-02
30	56.50	0.000	1.062	0.1011	1.3599	0.7046	9.03E-02
31	55.80	0.000	5.973	0.0899	1.2787	0.6626	9.01E-02
32	25.60	0.000	6.674	0.0942	1.1718	0.6072	8.98E-02
33	11.40	0.000	4.576	0.0684	1.7846	0.9247	9.15E-02
34	33.80	0.000	3.739	0.1014	2.3733	1.2297	9.32E-02
35	92.40	0.000	3.405	0.1099	2.7409	1.4202	9.43E-02
36	112.20	0.000	5.050	0.1139	2.6194	1.3573	9.39E-02
37	1.70	0.000	5.559	0.0454	4.6006	2.3839	9.96E-02
38	0.40	0.000	6.792	0.0241	18.6325	9.6546	1.40E-01
39	0.00	0.000	1.490	0.0191	35.4572	14.8698	1.89E-01
40	0.00	0.000	0.032	0.0190	99.7249	16.4041	3.74E-01
41	0.40	0.000	0.408	0.0190	221.6987	18.4988	7.25E-01
42	6.90	0.000	2.118	0.0349	201.7026	17.9578	6.67E-01
43	3.80	0.000	3.022	0.0375	122.6472	16.5370	4.40E-01
44	13.80	0.000	5.321	0.0658	59.8783	15.5964	2.59E-01
45	32.00	0.000	3.497	0.1000	56.3547	15.5903	2.49E-01
46	1.80	0.000	6.288	0.0437	43.1527	15.5675	2.11E-01
47	0.00	0.000	6.572	0.0207	39.4985	15.5612	2.00E-01
48	17.60	0.000	6.024	0.0593	37.6299	15.5580	1.95E-01
49	0.00	0.000	5.609	0.0406	32.5775	15.5026	1.80E-01
50	0.00	0.000	5.869	0.0207	28.9412	14.9962	1.70E-01

51	4.20	0.000	3.492	0.0230	27.6655	14.3351	1.66E-01
52	0.30	0.000	1.268	0.0198	26.3350	13.6457	1.62E-01
53	0.00	0.000	0.186	0.0192	24.9744	12.9407	1.58E-01
54	0.00	0.000	0.046	0.0190	23.6189	12.2383	1.54E-01
55	0.00	0.000	0.011	0.0190	22.2924	11.5510	1.51E-01
56	0.00	0.000	0.002	0.0190	21.0112	10.8871	1.47E-01
57	25.00	0.000	1.385	0.0977	19.7856	10.2521	1.43E-01
58	3.80	0.000	5.112	0.0505	18.5942	9.6348	1.40E-01
59	0.00	0.000	3.832	0.0377	16.6410	8.6227	1.34E-01
60	65.40	0.000	4.910	0.1081	15.5996	8.0831	1.31E-01
61	35.20	0.000	4.887	0.0918	14.1239	7.3184	1.27E-01
62	152.00	0.000	5.103	0.1290	12.1907	6.3167	1.22E-01
63	0.00	0.000	5.281	0.0385	10.7864	5.5891	1.17E-01
64	9.40	0.000	5.581	0.0512	16.4951	8.5471	1.34E-01
65	35.00	0.000	5.910	0.0972	23.3488	12.0984	1.54E-01
66	0.30	0.000	5.797	0.0364	24.6410	12.7680	1.57E-01
67	0.00	0.000	4.416	0.0217	26.1982	13.5748	1.62E-01
68	0.00	0.000	0.807	0.0190	29.0932	15.0749	1.70E-01
69	0.00	0.000	0.000	0.0190	36.3472	15.5557	1.91E-01
70	0.00	0.000	0.000	0.0190	37.3863	15.5575	1.94E-01
71	0.00	0.000	0.000	0.0190	35.9995	15.5551	1.90E-01
72	0.00	0.000	0.000	0.0190	30.7096	15.3675	1.75E-01
73	0.00	0.000	0.000	0.0190	28.6095	14.8243	1.69E-01
74	0.00	0.000	0.000	0.0190	27.4058	14.2006	1.65E-01
75	0.00	0.000	0.000	0.0190	26.1149	13.5317	1.62E-01
76	0.00	0.000	0.000	0.0190	24.7879	12.8441	1.58E-01
77	0.00	0.000	0.000	0.0190	23.4608	12.1564	1.54E-01
78	0.00	0.000	0.000	0.0190	22.1585	11.4816	1.50E-01
79	0.00	0.000	0.000	0.0190	20.8979	10.8284	1.47E-01

80	0.40	0.000	0.127	0.0199	19.6898	10.2024	1.43E-01
81	21.60	0.000	0.768	0.0894	18.5409	9.6071	1.40E-01
82	38.00	0.000	2.538	0.0881	17.4058	9.0190	1.37E-01
83	453.00	0.000	5.056	0.1680	15.3209	7.9387	1.31E-01
84	1.00	0.000	3.812	0.0427	133.4028	13.3254	4.71E-01
85	1.00	0.000	6.608	0.0240	463.8084	26.0174	1.42E+00
86	0.00	0.000	1.205	0.0200	435.3284	25.0866	1.34E+00
87	1.20	0.000	0.786	0.0213	407.8961	24.1989	1.26E+00
88	0.00	0.000	0.557	0.0195	381.4637	23.3527	1.18E+00
89	0.00	0.000	0.102	0.0191	355.9918	22.4972	1.11E+00
90	0.60	0.000	0.505	0.0194	331.5022	21.6965	1.04E+00
91	0.00	0.000	0.078	0.0192	307.8783	20.9857	9.73E-01
92	0.00	0.000	0.041	0.0191	285.0599	20.3090	9.07E-01
93	0.00	0.000	0.013	0.0190	263.0087	19.6659	8.44E-01
94	0.00	0.000	0.003	0.0190	241.6873	19.0564	7.82E-01
95	0.00	0.000	0.001	0.0190	221.0578	18.4812	7.23E-01
96	0.40	0.000	0.133	0.0199	201.0818	17.9413	6.66E-01
97	0.00	0.000	0.078	0.0196	122.3340	16.5296	4.39E-01
98	0.00	0.000	0.140	0.0192	59.8090	15.5963	2.59E-01
99	0.00	0.000	0.037	0.0190	57.7260	15.5927	2.53E-01
100	0.00	0.000	0.009	0.0190	53.9080	15.5861	2.42E-01
101	0.00	0.000	0.002	0.0190	48.7132	15.5771	2.27E-01
102	0.00	0.000	0.001	0.0190	42.4044	15.5662	2.09E-01
103	0.00	0.000	0.000	0.0190	34.5499	15.5236	1.86E-01
104	0.00	0.000	0.000	0.0190	28.5736	14.8057	1.69E-01
105	0.00	0.000	0.000	0.0190	26.6884	13.8288	1.63E-01
106	0.00	0.000	0.000	0.0190	24.9087	12.9067	1.58E-01
107	0.00	0.000	0.000	0.0190	23.2403	12.0422	1.53E-01
108	0.00	0.000	0.000	0.0190	21.6839	11.2357	1.49E-01

109	0.00	0.000	0.000	0.0190	20.2373	10.4862	1.45E-01
110	0.00	0.000	0.000	0.0190	18.6922	9.6855	1.40E-01
111	0.00	0.000	0.000	0.0190	16.2434	8.4166	1.33E-01
112	0.00	0.000	0.000	0.0190	14.0234	7.2663	1.27E-01
113	0.00	0.000	0.000	0.0190	12.1037	6.2717	1.21E-01
114	1.00	0.000	0.092	0.0220	10.4438	5.4116	1.16E-01
115	0.00	0.000	0.211	0.0213	9.0084	4.6678	1.12E-01
116	3.40	0.000	0.357	0.0315	7.7673	4.0247	1.09E-01
117	0.00	0.000	0.352	0.0303	6.6940	3.4686	1.06E-01
118	0.00	0.000	0.392	0.0290	5.7659	2.9877	1.03E-01
119	0.00	0.000	0.386	0.0277	4.9634	2.5719	1.01E-01
120	0.00	0.000	0.379	0.0264	4.2695	2.2123	9.87E-02
121	0.00	0.000	0.373	0.0252	3.6695	1.9014	9.70E-02
122	0.00	0.000	0.404	0.0238	3.1506	1.6325	9.55E-02
123	0.00	0.000	0.402	0.0225	2.7019	1.4000	9.42E-02
124	0.00	0.000	0.396	0.0212	2.3139	1.1990	9.31E-02
125	0.00	0.000	0.390	0.0199	1.9785	1.0252	9.21E-02
126	0.00	0.000	0.207	0.0192	1.6884	0.8748	9.13E-02
127	0.00	0.000	0.046	0.0190	1.4375	0.7449	9.05E-02
128	0.00	0.000	0.014	0.0190	1.2206	0.6325	8.99E-02
129	0.00	0.000	0.000	0.0190	1.0330	0.5353	8.94E-02
130	0.00	0.000	0.000	0.0190	0.8708	0.4512	8.89E-02
131	1.60	0.000	0.219	0.0236	0.7306	0.3786	8.85E-02
132	0.00	0.000	0.163	0.0231	0.6093	0.3157	8.82E-02
133	0.00	0.000	0.260	0.0222	0.5044	0.2614	8.79E-02
134	2.00	0.000	0.311	0.0278	0.4138	0.2144	8.76E-02
135	8.00	0.000	0.365	0.0533	0.3354	0.1738	8.74E-02
136	35.00	0.000	0.429	0.1035	0.2825	0.1464	8.72E-02
137	6.20	0.000	3.439	0.0639	0.2688	0.1393	8.72E-02

138	0.50	0.000	5.133	0.0451	1.0715	0.5552	8.95E-02
139	0.00	0.000	5.427	0.0270	2.5072	1.2991	9.36E-02
140	0.00	0.000	2.403	0.0190	3.8751	2.0079	9.76E-02
141	0.00	0.000	0.000	0.0190	4.9665	2.5734	1.01E-01
142	0.00	0.000	0.000	0.0190	5.8065	3.0087	1.03E-01
143	0.00	0.000	0.000	0.0190	6.3986	3.3155	1.05E-01
144	0.00	0.000	0.000	0.0190	5.8089	3.0099	1.03E-01
145	0.00	0.000	0.000	0.0190	5.0005	2.5911	1.01E-01
146	0.00	0.000	0.000	0.0190	4.3016	2.2289	9.88E-02
147	0.00	0.000	0.000	0.0190	3.6972	1.9157	9.70E-02
148	0.00	0.000	0.000	0.0190	3.1746	1.6449	9.55E-02
149	0.00	0.000	0.000	0.0190	2.7227	1.4108	9.42E-02
150	0.00	0.000	0.000	0.0190	2.3319	1.2083	9.31E-02
151	0.00	0.000	0.000	0.0190	1.9940	1.0332	9.21E-02
152	0.00	0.000	0.000	0.0190	1.7018	0.8818	9.13E-02
153	0.00	0.000	0.000	0.0190	1.4491	0.7509	9.06E-02
154	2.40	0.000	0.357	0.0258	1.2306	0.6377	8.99E-02
155	3.20	0.000	0.345	0.0353	1.0417	0.5398	8.94E-02
156	0.00	0.000	0.550	0.0335	0.8783	0.4551	8.89E-02
157	0.00	0.000	0.532	0.0317	0.7371	0.3819	8.85E-02
158	0.00	0.000	0.516	0.0300	0.6149	0.3186	8.82E-02
159	0.00	0.000	0.556	0.0281	0.5093	0.2639	8.79E-02
160	0.00	0.000	0.533	0.0264	0.4180	0.2166	8.76E-02
161	0.00	0.000	0.526	0.0246	0.3390	0.1756	8.74E-02
162	0.00	0.000	0.513	0.0229	0.2707	0.1403	8.72E-02
163	0.00	0.000	0.501	0.0212	0.2116	0.1097	8.70E-02
164	0.00	0.000	0.515	0.0195	0.1606	0.0832	8.69E-02
165	0.40	0.000	0.233	0.0201	0.1164	0.0603	8.67E-02
166	9.20	0.000	0.431	0.0493	0.0782	0.0405	8.66E-02

167	0.00	0.000	0.460	0.0478	0.0452	0.0234	8.65E-02
168	0.00	0.000	0.479	0.0462	0.0167	0.0086	8.64E-02
169	0.00	0.000	0.475	0.0446	0.0002	0.0000	2.46E-03
170	0.00	0.000	0.477	0.0430	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.469	0.0414	0.0000	0.0000	0.00E+00
172	2.00	0.000	0.523	0.0464	0.0001	0.0000	2.07E-03
173	0.00	0.000	0.454	0.0448	0.0000	0.0000	0.00E+00
174	0.40	0.000	0.509	0.0445	0.0001	0.0000	1.28E-03
175	0.00	0.000	0.440	0.0430	0.0003	0.0000	3.79E-03
176	0.00	0.000	0.434	0.0415	0.0003	0.0000	5.24E-03
177	0.00	0.000	0.428	0.0401	0.0000	0.0000	9.30E-06
178	0.50	0.000	0.484	0.0401	0.0002	0.0000	2.52E-03
179	0.00	0.000	0.416	0.0388	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.411	0.0374	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.391	0.0361	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.399	0.0348	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.396	0.0334	0.0003	0.0000	4.56E-03
184	0.00	0.000	0.391	0.0321	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.386	0.0308	0.0003	0.0000	4.29E-03
186	0.00	0.000	0.382	0.0295	0.0002	0.0000	3.19E-03
187	5.30	0.000	0.442	0.0457	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.374	0.0445	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.370	0.0433	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.366	0.0420	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.362	0.0408	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.359	0.0396	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.355	0.0384	0.0005	0.0000	6.71E-03
194	0.00	0.000	0.352	0.0372	0.0000	0.0000	0.00E+00
195	0.10	0.000	0.400	0.0362	0.0004	0.0000	6.37E-03

196	0.00	0.000	0.345	0.0351	0.0002	0.0000	3.36E-03
197	0.00	0.000	0.342	0.0339	0.0002	0.0000	3.18E-03
198	0.00	0.000	0.339	0.0328	0.0001	0.0000	1.92E-03
199	0.00	0.000	0.336	0.0317	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.333	0.0306	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.330	0.0295	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.328	0.0284	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.325	0.0273	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.322	0.0262	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.320	0.0251	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.317	0.0241	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.315	0.0230	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.312	0.0220	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.310	0.0210	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.308	0.0199	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.278	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.40	0.000	0.095	0.0200	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.043	0.0199	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.120	0.0195	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.064	0.0193	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.057	0.0191	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.014	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.001	0.0190	0.0000	0.0000	1.05E-04
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	23.80	0.000	0.280	0.0974	0.0000	0.0000	3.42E-07
244	14.40	0.000	0.324	0.0816	0.0000	0.0000	0.00E+00
245	28.80	0.000	6.016	0.0915	0.0046	0.0024	4.31E-02
246	2.20	0.000	5.973	0.0522	0.0000	0.0000	0.00E+00
247	0.00	0.000	6.024	0.0312	0.5305	0.2749	8.79E-02
248	0.00	0.000	3.654	0.0190	2.3314	1.2080	9.31E-02
249	0.00	0.000	0.010	0.0190	3.9737	2.0590	9.78E-02
250	0.00	0.000	0.003	0.0190	5.2485	2.7195	1.02E-01
251	0.00	0.000	0.001	0.0190	6.2237	3.2248	1.04E-01
252	0.00	0.000	0.000	0.0190	6.9551	3.6038	1.06E-01
253	0.00	0.000	0.000	0.0190	7.4884	3.8802	1.08E-01

254	0.00	0.000	0.000	0.0190	7.5326	3.9031	1.08E-01
255	0.00	0.000	0.000	0.0190	6.5318	3.3845	1.05E-01
256	1.00	0.000	0.164	0.0218	5.6257	2.9150	1.03E-01
257	0.00	0.000	0.418	0.0204	4.8422	2.5090	1.00E-01
258	0.00	0.000	0.325	0.0193	4.1646	2.1579	9.84E-02
259	0.00	0.000	0.069	0.0191	3.5788	1.8544	9.67E-02
260	0.00	0.000	0.017	0.0190	3.0722	1.5919	9.52E-02
261	0.00	0.000	0.004	0.0190	2.6341	1.3649	9.40E-02
262	0.00	0.000	0.001	0.0190	2.2553	1.1686	9.29E-02
263	0.00	0.000	0.000	0.0190	1.9278	0.9989	9.20E-02
264	0.00	0.000	0.000	0.0190	1.6445	0.8521	9.11E-02
265	0.00	0.000	0.000	0.0190	1.3996	0.7252	9.04E-02
266	0.00	0.000	0.000	0.0190	1.1878	0.6155	8.98E-02
267	0.00	0.000	0.000	0.0190	1.0047	0.5206	8.93E-02
268	0.00	0.000	0.000	0.0190	0.8463	0.4385	8.88E-02
269	0.00	0.000	0.000	0.0190	0.7094	0.3676	8.84E-02
270	0.00	0.000	0.000	0.0190	0.5910	0.3062	8.81E-02
271	0.00	0.000	0.000	0.0190	0.4886	0.2532	8.78E-02
272	0.00	0.000	0.000	0.0190	0.4001	0.2073	8.76E-02
273	0.00	0.000	0.000	0.0190	0.3235	0.1676	8.73E-02
274	0.00	0.000	0.000	0.0190	0.2573	0.1333	8.71E-02
275	0.40	0.000	0.117	0.0199	0.2001	0.1037	8.70E-02
276	0.00	0.000	0.043	0.0198	0.1506	0.0780	8.68E-02
277	0.00	0.000	0.148	0.0193	0.1078	0.0558	8.67E-02
278	0.00	0.000	0.063	0.0191	0.0707	0.0367	8.66E-02
279	0.00	0.000	0.022	0.0190	0.0387	0.0201	8.65E-02
280	0.00	0.000	0.006	0.0190	0.0111	0.0056	7.04E-02
281	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	3.43E-07
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
298	1.00	0.000	0.105	0.0220	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.153	0.0215	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.212	0.0208	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.241	0.0200	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.201	0.0193	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.077	0.0190	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.008	0.0190	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
318	2.00	0.000	0.206	0.0250	0.0000	0.0000	0.00E+00
319	0.90	0.000	0.205	0.0273	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.205	0.0266	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.204	0.0259	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.203	0.0253	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.208	0.0246	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.219	0.0238	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.221	0.0231	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.201	0.0224	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.237	0.0216	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.238	0.0208	0.0000	0.0000	0.00E+00
329	1.20	0.000	0.328	0.0237	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.261	0.0229	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.262	0.0220	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.264	0.0211	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.219	0.0204	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.190	0.0198	0.0001	0.0000	1.00E-03
335	0.00	0.000	0.154	0.0192	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.064	0.0190	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
343	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
345	0.30	0.000	0.105	0.0196	0.0000	0.0000	0.00E+00
346	0.00	0.000	0.022	0.0196	0.0000	0.0000	0.00E+00
347	65.00	0.000	0.345	0.1145	0.0288	0.0149	2.17E-02
348	10.60	0.000	4.701	0.0646	0.2914	0.1510	8.72E-02
349	13.60	0.000	5.353	0.0674	1.0305	0.5340	8.94E-02
350	68.40	0.000	6.498	0.1041	1.9652	1.0183	9.21E-02
351	0.00	0.000	6.141	0.0471	1.7249	0.8938	9.14E-02
352	1.20	0.000	6.650	0.0277	3.7615	1.9490	9.72E-02
353	2.00	0.000	3.154	0.0220	6.9255	3.5885	1.06E-01
354	0.00	0.000	0.728	0.0195	9.3079	4.8230	1.13E-01
355	20.00	0.000	5.041	0.0694	11.0673	5.7346	1.18E-01
356	75.20	0.000	4.381	0.0967	12.2114	6.3275	1.22E-01
357	82.20	0.000	4.663	0.1042	11.8337	6.1317	1.20E-01
358	0.00	0.000	5.042	0.0489	10.4305	5.4046	1.16E-01
359	0.00	0.000	6.056	0.0287	14.2185	7.3674	1.27E-01
360	0.00	0.000	2.219	0.0190	19.4526	10.0795	1.42E-01
361	15.00	0.000	3.375	0.0577	22.5400	11.6793	1.51E-01
362	78.70	0.000	4.483	0.1066	24.1649	12.5212	1.56E-01
363	0.50	0.000	2.948	0.0486	22.5806	11.7004	1.51E-01
364	35.60	0.000	5.085	0.0912	23.6135	12.2355	1.54E-01
365	10.20	0.000	4.829	0.0647	24.0873	12.4811	1.56E-01

* = Frozen (air or soil)

Annual Totals for Year 2			
	mm*	cubic meters	percent
Precipitation	2,000.50	20,005.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	359.780	3,597.8	17.98
Drainage Collected from Layer 2	1,330.2261	13,302.3	66.49
Percolation/Leakage through Layer 3	38.996464	390.0	1.95
Average Head on Top of Layer 3	18.9197 (cm)	---	---
Change in Water Storage	271.4978	2,715.0	13.57
Soil Water at Start of Year	859.8321	8,598.3	42.98
Soil Water at End of Year	1,131.3300	11,313.3	56.55
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 3

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone			
	Air	Soil				Water	Head #1	Drain #1	Leak #1
						(cm/cm)	(cm)	(mm)	(mm)
1			0.40	0.000	4.143	0.0508	24.4449	12.6663	1.57E-01
2			0.00	0.000	3.594	0.0388	27.5533	14.2770	1.66E-01
3			18.20	0.000	5.043	0.0821	29.1081	15.0826	1.70E-01
4			0.00	0.000	5.548	0.0439	29.4671	15.2687	1.71E-01
5			0.00	0.000	4.817	0.0278	28.2713	14.6490	1.68E-01
6	*Note: head c		2.00	0.000	3.755	0.0220	28.0578	14.5384	1.67E-01
7			0.00	0.000	0.722	0.0196	27.5402	14.2702	1.66E-01
8			21.00	0.000	3.638	0.0774	26.7358	13.8534	1.63E-01
9			8.40	0.000	2.484	0.0697	25.7691	13.3525	1.61E-01
10			71.00	0.000	2.542	0.1070	23.8036	12.3341	1.55E-01
11			450.00	0.000	3.923	0.1680	20.8175	10.7868	1.46E-01
12			118.00	0.000	3.122	0.1132	322.6591	20.7475	1.02E+00
13			123.00	0.000	4.965	0.1194	691.3924	33.7876	2.08E+00
14			35.40	0.000	3.579	0.0931	754.4712	36.1724	2.26E+00
15			3.00	0.000	6.471	0.0489	746.2811	35.8779	2.24E+00
16			0.00	0.000	4.106	0.0321	716.5231	34.6630	2.15E+00
17			26.90	0.000	3.857	0.0975	679.6480	33.3232	2.04E+00
18			20.20	0.000	4.658	0.0875	651.1366	32.3351	1.96E+00
19			5.80	0.000	5.249	0.0545	630.4235	31.6216	1.90E+00
20			0.00	0.000	5.591	0.0343	606.3197	30.7959	1.83E+00
21			0.00	0.000	3.248	0.0190	573.7021	29.6859	1.74E+00

22	0.00	0.000	0.000	0.0190	541.6274	28.6035	1.65E+00
23	0.00	0.000	0.000	0.0190	510.2402	27.5533	1.56E+00
24	0.00	0.000	0.000	0.0190	480.0329	26.5516	1.47E+00
25	0.00	0.000	0.000	0.0190	450.9519	25.5961	1.39E+00
26	0.00	0.000	0.000	0.0190	422.9460	24.6848	1.30E+00
27	20.20	0.000	1.371	0.0818	395.9662	23.8159	1.23E+00
28	11.90	0.000	6.239	0.0687	371.3663	23.0319	1.16E+00
29	1.00	0.000	6.699	0.0443	354.6833	22.4295	1.11E+00
30	0.00	0.000	6.860	0.0215	332.0660	21.7136	1.04E+00
31	0.00	0.000	0.546	0.0191	308.5443	21.0056	9.75E-01
32	0.00	0.000	0.025	0.0190	285.7430	20.3291	9.09E-01
33	0.00	0.000	0.006	0.0190	263.6691	19.6849	8.46E-01
34	0.00	0.000	0.002	0.0190	242.3260	19.0745	7.84E-01
35	0.00	0.000	0.000	0.0190	221.6760	18.4982	7.25E-01
36	0.00	0.000	0.000	0.0190	201.6807	17.9572	6.67E-01
37	0.00	0.000	0.000	0.0190	122.6361	16.5367	4.40E-01
38	11.40	0.000	0.711	0.0546	59.8759	15.5964	2.59E-01
39	0.80	0.000	0.888	0.0541	57.8569	15.5929	2.53E-01
40	0.00	0.000	0.874	0.0497	53.8447	15.5860	2.41E-01
41	3.20	0.000	0.867	0.0575	48.5093	15.5767	2.26E-01
42	0.00	0.000	0.787	0.0548	42.3279	15.5661	2.08E-01
43	0.00	0.000	0.752	0.0509	34.4691	15.5192	1.86E-01
44	9.00	0.000	0.760	0.0710	28.5009	14.7680	1.68E-01
45	5.20	0.000	5.730	0.0597	26.4743	13.7179	1.63E-01
46	0.00	0.000	0.694	0.0559	24.0686	12.4714	1.56E-01
47	27.40	0.000	0.707	0.0874	22.5781	11.6991	1.51E-01
48	4.70	0.000	5.905	0.0476	20.1021	10.4161	1.44E-01
49	0.00	0.000	5.347	0.0298	18.0901	9.3736	1.38E-01
50	0.00	0.000	2.813	0.0204	17.7471	9.1958	1.38E-01

51	14.20	0.000	4.985	0.0511	17.3927	9.0122	1.36E-01
52	0.00	0.000	5.455	0.0329	16.9291	8.7720	1.35E-01
53	0.00	0.000	3.767	0.0203	16.3888	8.4920	1.34E-01
54	0.00	0.000	0.336	0.0190	15.7995	8.1866	1.32E-01
55	2.00	0.000	0.989	0.0224	15.1802	7.8657	1.30E-01
56	49.20	0.000	3.661	0.0951	14.5779	7.5537	1.28E-01
57	37.20	0.000	4.092	0.0841	13.2376	6.8592	1.25E-01
58	52.20	0.000	4.418	0.0871	11.4243	5.9196	1.19E-01
59	0.00	0.000	4.942	0.0488	10.0652	5.2154	1.15E-01
60	7.20	0.000	4.298	0.0585	10.5709	5.4774	1.17E-01
61	10.00	0.000	3.724	0.0647	12.5686	6.5125	1.23E-01
62	17.80	0.000	3.864	0.0855	13.5279	7.0096	1.25E-01
63	31.80	0.000	3.362	0.0855	13.1474	6.8124	1.24E-01
64	6.60	0.000	4.231	0.0631	12.1099	6.2749	1.21E-01
65	6.40	0.000	5.875	0.0640	12.2731	6.3594	1.22E-01
66	1.20	0.000	5.883	0.0446	14.1932	7.3543	1.27E-01
67	0.00	0.000	6.926	0.0215	15.6925	8.1312	1.32E-01
68	0.00	0.000	0.720	0.0191	16.7746	8.6919	1.35E-01
69	0.00	0.000	0.031	0.0190	17.3723	9.0016	1.36E-01
70	0.00	0.000	0.008	0.0190	17.6056	9.1225	1.37E-01
71	0.60	0.000	0.551	0.0192	17.5706	9.1044	1.37E-01
72	0.00	0.000	0.028	0.0191	17.3402	8.9850	1.36E-01
73	0.00	0.000	0.016	0.0190	16.9698	8.7931	1.35E-01
74	0.00	0.000	0.005	0.0190	16.5015	8.5504	1.34E-01
75	0.00	0.000	0.001	0.0190	15.9676	8.2737	1.32E-01
76	0.00	0.000	0.000	0.0190	15.3924	7.9757	1.31E-01
77	0.30	0.000	0.127	0.0196	14.7947	7.6660	1.29E-01
78	0.00	0.000	0.084	0.0193	13.9606	7.2338	1.27E-01
79	0.30	0.000	0.167	0.0197	12.1410	6.2910	1.21E-01

80	0.00	0.000	0.090	0.0194	10.4761	5.4283	1.17E-01
81	0.00	0.000	0.097	0.0191	9.0363	4.6823	1.12E-01
82	0.30	0.000	0.128	0.0197	7.7914	4.0372	1.09E-01
83	0.00	0.000	0.070	0.0195	6.7149	3.4794	1.06E-01
84	0.00	0.000	0.113	0.0191	5.7840	2.9970	1.03E-01
85	0.00	0.000	0.018	0.0190	4.9791	2.5799	1.01E-01
86	0.00	0.000	0.005	0.0190	4.2830	2.2193	9.87E-02
87	0.00	0.000	0.001	0.0190	3.6811	1.9074	9.70E-02
88	0.00	0.000	0.000	0.0190	3.1607	1.6377	9.55E-02
89	0.00	0.000	0.000	0.0190	2.7106	1.4045	9.42E-02
90	0.00	0.000	0.000	0.0190	2.3215	1.2029	9.31E-02
91	0.00	0.000	0.000	0.0190	1.9850	1.0285	9.21E-02
92	31.40	0.000	0.550	0.0928	1.6940	0.8778	9.13E-02
93	0.10	0.000	3.219	0.0400	1.4424	0.7474	9.06E-02
94	0.00	0.000	0.550	0.0382	1.4730	0.7633	9.06E-02
95	0.00	0.000	0.537	0.0364	2.5442	1.3183	9.37E-02
96	0.00	0.000	0.526	0.0346	3.7556	1.9460	9.72E-02
97	0.00	0.000	0.515	0.0329	4.7113	2.4412	1.00E-01
98	0.30	0.000	0.542	0.0321	5.0101	2.5960	1.01E-01
99	0.00	0.000	0.495	0.0305	4.3098	2.2332	9.88E-02
100	0.00	0.000	0.486	0.0288	3.7043	1.9194	9.71E-02
101	0.00	0.000	0.463	0.0273	3.1807	1.6481	9.56E-02
102	0.00	0.000	0.466	0.0257	2.7280	1.4135	9.43E-02
103	0.10	0.000	0.496	0.0244	2.3365	1.2107	9.31E-02
104	1.60	0.000	0.493	0.0281	1.9980	1.0353	9.22E-02
105	0.50	0.000	0.486	0.0282	1.7052	0.8836	9.13E-02
106	5.20	0.000	0.479	0.0438	1.4521	0.7524	9.06E-02
107	0.00	0.000	0.434	0.0423	1.2439	0.6445	9.00E-02
108	2.60	0.000	0.467	0.0494	1.0532	0.5457	8.94E-02

109	1.60	0.000	6.419	0.0329	0.9131	0.4731	8.90E-02
110	0.00	0.000	0.422	0.0315	0.7749	0.4015	8.86E-02
111	0.00	0.000	0.410	0.0302	0.6476	0.3356	8.83E-02
112	6.80	0.000	0.452	0.0513	0.5376	0.2785	8.79E-02
113	14.60	0.000	5.509	0.0727	0.4873	0.2525	8.78E-02
114	0.00	0.000	5.417	0.0483	0.5810	0.3011	8.81E-02
115	0.00	0.000	6.013	0.0282	1.1957	0.6195	8.98E-02
116	9.40	0.000	5.139	0.0424	1.2616	0.6537	9.00E-02
117	1.30	0.000	5.425	0.0280	1.1062	0.5732	8.96E-02
118	0.80	0.000	1.778	0.0248	0.9457	0.4900	8.91E-02
119	0.00	0.000	1.272	0.0205	0.7954	0.4121	8.87E-02
120	0.00	0.000	0.344	0.0194	0.6653	0.3447	8.83E-02
121	0.00	0.000	0.099	0.0191	0.5529	0.2865	8.80E-02
122	1.20	0.000	0.149	0.0226	0.4556	0.2361	8.77E-02
123	1.40	0.000	0.466	0.0257	0.3716	0.1925	8.75E-02
124	0.00	0.000	0.390	0.0244	0.2989	0.1549	8.73E-02
125	26.90	0.000	0.842	0.0949	0.2360	0.1223	8.71E-02
126	0.00	0.000	5.461	0.0436	0.1816	0.0941	8.69E-02
127	0.00	0.000	5.163	0.0264	0.3974	0.2059	8.75E-02
128	5.10	0.000	4.372	0.0288	1.5721	0.8146	9.09E-02
129	0.00	0.000	1.967	0.0223	2.8194	1.4609	9.45E-02
130	0.00	0.000	0.809	0.0196	3.2693	1.6940	9.58E-02
131	0.00	0.000	0.136	0.0191	2.8045	1.4532	9.45E-02
132	0.00	0.000	0.027	0.0190	2.4027	1.2450	9.33E-02
133	0.00	0.000	0.009	0.0190	2.0552	1.0649	9.23E-02
134	4.40	0.000	0.617	0.0316	1.7547	0.9092	9.15E-02
135	58.00	0.000	1.249	0.1150	1.5546	0.8055	9.09E-02
136	5.40	0.000	5.946	0.0571	1.3774	0.7137	9.04E-02
137	0.00	0.000	5.154	0.0399	2.3792	1.2328	9.33E-02

138	3.20	0.000	5.034	0.0338	4.1256	2.1377	9.83E-02
139	0.00	0.000	3.602	0.0201	5.4393	2.8184	1.02E-01
140	0.00	0.000	0.267	0.0192	6.4112	3.3220	1.05E-01
141	0.00	0.000	0.048	0.0191	7.2135	3.7377	1.07E-01
142	0.00	0.000	0.012	0.0190	7.7979	4.0406	1.09E-01
143	0.00	0.000	0.003	0.0190	8.2067	4.2524	1.10E-01
144	0.00	0.000	0.001	0.0190	8.0127	4.1518	1.09E-01
145	0.00	0.000	0.000	0.0190	6.9062	3.5785	1.06E-01
146	0.00	0.000	0.000	0.0190	5.9494	3.0828	1.04E-01
147	0.00	0.000	0.000	0.0190	5.1221	2.6541	1.01E-01
148	0.00	0.000	0.000	0.0190	4.4067	2.2834	9.91E-02
149	0.00	0.000	0.000	0.0190	3.7881	1.9628	9.73E-02
150	0.00	0.000	0.000	0.0190	3.2532	1.6857	9.58E-02
151	2.40	0.000	0.436	0.0255	2.7906	1.4460	9.44E-02
152	2.80	0.000	0.413	0.0335	2.3907	1.2387	9.33E-02
153	6.50	0.000	0.603	0.0532	2.0448	1.0595	9.23E-02
154	0.10	0.000	0.797	0.0508	1.7457	0.9046	9.14E-02
155	0.00	0.000	0.752	0.0483	1.4871	0.7706	9.07E-02
156	0.00	0.000	0.721	0.0459	1.2635	0.6547	9.00E-02
157	0.00	0.000	0.694	0.0436	1.0726	0.5558	8.95E-02
158	0.00	0.000	0.669	0.0412	0.9114	0.4722	8.90E-02
159	0.00	0.000	0.647	0.0390	0.7737	0.4009	8.86E-02
160	0.00	0.000	0.627	0.0369	0.6466	0.3350	8.83E-02
161	0.00	0.000	0.609	0.0349	0.5367	0.2781	8.79E-02
162	0.00	0.000	0.593	0.0329	0.4416	0.2288	8.77E-02
163	0.00	0.000	0.577	0.0310	0.3594	0.1862	8.74E-02
164	0.00	0.000	0.563	0.0291	0.2884	0.1494	8.72E-02
165	0.00	0.000	0.550	0.0273	0.2269	0.1176	8.71E-02
166	0.00	0.000	0.537	0.0255	0.1738	0.0901	8.69E-02

167	0.00	0.000	0.526	0.0237	0.1278	0.0662	8.68E-02
168	0.00	0.000	0.515	0.0220	0.0881	0.0457	8.67E-02
169	0.00	0.000	0.505	0.0203	0.0538	0.0279	8.66E-02
170	0.00	0.000	0.402	0.0190	0.0241	0.0125	8.65E-02
171	0.00	0.000	0.000	0.0190	0.0022	0.0010	2.61E-02
172	4.20	0.000	0.254	0.0322	0.0000	0.0000	0.00E+00
173	2.80	0.000	0.369	0.0403	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.379	0.0390	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.414	0.0376	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.408	0.0363	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.402	0.0349	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.420	0.0335	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.396	0.0322	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.408	0.0308	0.0000	0.0000	0.00E+00
181	1.80	0.000	0.460	0.0353	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.398	0.0340	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.393	0.0327	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.388	0.0314	0.0000	0.0000	0.00E+00
185	0.40	0.000	0.442	0.0312	0.0000	0.0000	0.00E+00
186	1.20	0.000	0.438	0.0338	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.374	0.0325	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.370	0.0313	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.366	0.0301	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.368	0.0288	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.370	0.0276	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.323	0.0265	0.0000	0.0000	0.00E+00
193	9.40	0.000	0.424	0.0565	0.0000	0.0000	0.00E+00
194	0.20	0.000	0.418	0.0557	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.355	0.0545	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.352	0.0534	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.348	0.0522	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.345	0.0511	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.342	0.0499	0.0000	0.0000	0.00E+00
200	4.20	0.000	0.404	0.0619	0.0353	0.0183	6.49E-02
201	0.50	0.000	0.401	0.0578	0.0692	0.0359	8.66E-02
202	0.00	0.000	0.333	0.0542	0.3838	0.1989	8.75E-02
203	0.00	0.000	0.330	0.0516	0.5025	0.2604	8.78E-02
204	0.00	0.000	0.328	0.0490	0.5293	0.2743	8.79E-02
205	0.00	0.000	0.325	0.0467	0.5454	0.2826	8.80E-02
206	0.40	0.000	0.389	0.0467	0.5073	0.2629	8.79E-02
207	0.00	0.000	0.320	0.0449	0.4319	0.2238	8.76E-02
208	0.00	0.000	0.317	0.0430	0.4182	0.2167	8.76E-02
209	0.00	0.000	0.315	0.0413	0.3994	0.2069	8.75E-02
210	0.00	0.000	0.271	0.0401	0.3674	0.1904	8.75E-02
211	0.00	0.000	0.310	0.0391	0.3032	0.1571	8.73E-02
212	0.00	0.000	0.308	0.0380	0.2398	0.1242	8.71E-02
213	0.00	0.000	0.306	0.0370	0.1849	0.0958	8.69E-02
214	0.00	0.000	0.304	0.0360	0.1374	0.0712	8.68E-02
215	0.00	0.000	0.301	0.0350	0.0964	0.0500	8.67E-02
216	0.00	0.000	0.299	0.0340	0.0609	0.0316	8.66E-02
217	2.30	0.000	0.368	0.0405	0.0303	0.0157	8.65E-02
218	0.00	0.000	0.295	0.0395	0.0051	0.0026	4.52E-02
219	0.00	0.000	0.293	0.0385	0.0000	0.0000	0.00E+00
220	2.60	0.000	0.364	0.0459	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.289	0.0450	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.288	0.0440	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.286	0.0431	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.284	0.0420	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.282	0.0409	0.0080	0.0042	8.64E-02
226	0.00	0.000	0.281	0.0399	0.0003	0.0000	3.90E-03
227	0.00	0.000	0.279	0.0390	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.265	0.0379	0.0033	0.0015	5.62E-02
229	0.00	0.000	0.275	0.0368	0.0019	0.0010	2.16E-02
230	0.00	0.000	0.274	0.0358	0.0054	0.0027	6.37E-02
231	0.00	0.000	0.272	0.0349	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.271	0.0340	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.269	0.0331	0.0000	0.0000	0.00E+00
234	0.20	0.000	0.341	0.0326	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.266	0.0317	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.265	0.0308	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.256	0.0300	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.262	0.0291	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.261	0.0283	0.0000	0.0000	0.00E+00
240	0.90	0.000	0.341	0.0301	0.0000	0.0000	0.00E+00
241	20.40	0.000	0.341	0.0967	0.0000	0.0000	0.00E+00
242	36.40	0.000	3.397	0.0967	0.0957	0.0496	8.67E-02
243	227.70	0.000	3.453	0.1559	0.0871	0.0451	8.66E-02
244	57.40	0.000	5.705	0.0906	0.0977	0.0506	8.67E-02
245	0.00	0.000	4.955	0.0463	4.8793	2.5283	1.00E-01
246	0.00	0.000	6.343	0.0251	16.6318	8.6179	1.34E-01
247	1.80	0.000	2.267	0.0219	26.1031	13.5255	1.62E-01
248	0.00	0.000	0.688	0.0196	39.9449	15.5363	2.01E-01
249	0.00	0.000	0.142	0.0192	51.1149	15.5812	2.34E-01
250	0.00	0.000	0.036	0.0190	55.7415	15.5892	2.47E-01
251	0.30	0.000	0.309	0.0190	56.9875	15.5914	2.51E-01
252	3.40	0.000	0.970	0.0271	55.7343	15.5892	2.47E-01
253	3.20	0.000	0.763	0.0352	52.5678	15.5838	2.38E-01

254	0.00	0.000	0.918	0.0322	47.8964	15.5757	2.24E-01
255	0.00	0.000	0.989	0.0289	42.0160	15.5655	2.07E-01
256	0.60	0.000	1.035	0.0274	34.4963	15.5238	1.86E-01
257	0.00	0.000	0.914	0.0244	28.6168	14.8280	1.69E-01
258	0.00	0.000	0.802	0.0217	26.7902	13.8816	1.64E-01
259	0.00	0.000	0.667	0.0195	25.0530	12.9814	1.59E-01
260	0.00	0.000	0.117	0.0191	23.4143	12.1323	1.54E-01
261	0.00	0.000	0.028	0.0190	21.8776	11.3361	1.49E-01
262	0.00	0.000	0.000	0.0190	20.4433	10.5929	1.45E-01
263	0.00	0.000	0.000	0.0190	19.1065	9.9002	1.41E-01
264	0.00	0.000	0.000	0.0190	16.9511	8.7834	1.35E-01
265	0.50	0.000	0.145	0.0202	14.6354	7.5835	1.29E-01
266	0.00	0.000	0.148	0.0197	12.6329	6.5459	1.23E-01
267	0.00	0.000	0.162	0.0191	10.9014	5.6487	1.18E-01
268	0.00	0.000	0.038	0.0190	9.4041	4.8728	1.13E-01
269	0.00	0.000	0.005	0.0190	8.1094	4.2020	1.10E-01
270	0.00	0.000	0.001	0.0190	6.9899	3.6219	1.07E-01
271	0.00	0.000	0.000	0.0190	6.0218	3.1202	1.04E-01
272	0.50	0.000	0.136	0.0202	5.1847	2.6865	1.01E-01
273	0.60	0.000	0.252	0.0214	4.4608	2.3114	9.92E-02
274	0.00	0.000	0.246	0.0206	3.8349	1.9871	9.74E-02
275	0.00	0.000	0.313	0.0195	3.2936	1.7066	9.59E-02
276	0.00	0.000	0.123	0.0191	2.8256	1.4641	9.45E-02
277	0.00	0.000	0.026	0.0190	2.4209	1.2544	9.34E-02
278	0.00	0.000	0.003	0.0190	2.0709	1.0731	9.24E-02
279	0.00	0.000	0.001	0.0190	1.7683	0.9163	9.15E-02
280	0.00	0.000	0.000	0.0190	1.5067	0.7807	9.07E-02
281	0.90	0.000	0.130	0.0216	1.2804	0.6634	9.01E-02
282	0.90	0.000	0.281	0.0236	1.0847	0.5621	8.95E-02

283	0.80	0.000	0.278	0.0254	0.9156	0.4744	8.90E-02
284	0.00	0.000	0.296	0.0244	0.7693	0.3986	8.86E-02
285	0.00	0.000	0.292	0.0234	0.6427	0.3330	8.82E-02
286	1.20	0.000	0.379	0.0261	0.5334	0.2764	8.79E-02
287	23.50	0.000	0.477	0.1018	0.4388	0.2274	8.77E-02
288	0.00	0.000	0.416	0.0543	0.5942	0.3079	8.81E-02
289	0.00	0.000	0.411	0.0529	1.0896	0.5646	8.95E-02
290	1.70	0.000	0.499	0.0538	2.0008	1.0368	9.22E-02
291	0.00	0.000	0.400	0.0524	2.9971	1.5530	9.50E-02
292	0.00	0.000	0.396	0.0508	3.3020	1.7109	9.59E-02
293	0.00	0.000	0.391	0.0490	2.8649	1.4845	9.46E-02
294	0.00	0.000	0.386	0.0469	2.4931	1.2918	9.36E-02
295	0.00	0.000	0.382	0.0447	2.2038	1.1419	9.27E-02
296	6.00	0.000	0.475	0.0631	1.9292	0.9996	9.20E-02
297	0.80	0.000	6.693	0.0434	1.6458	0.8528	9.11E-02
298	0.00	0.000	0.374	0.0404	1.4707	0.7621	9.06E-02
299	0.00	0.000	0.370	0.0383	1.3483	0.6986	9.03E-02
300	13.40	0.000	0.466	0.0814	1.1825	0.6127	8.98E-02
301	0.00	0.000	6.262	0.0432	1.0439	0.5409	8.94E-02
302	15.80	0.000	6.279	0.0749	1.3195	0.6837	9.02E-02
303	0.00	0.000	5.924	0.0450	2.0121	1.0426	9.22E-02
304	19.00	0.000	5.136	0.0859	2.3127	1.1983	9.31E-02
305	0.00	0.000	3.617	0.0514	2.4019	1.2446	9.33E-02
306	11.40	0.000	5.773	0.0661	2.3640	1.2249	9.32E-02
307	0.00	0.000	5.154	0.0467	3.1381	1.6260	9.54E-02
308	0.00	0.000	6.019	0.0266	3.5539	1.8415	9.66E-02
309	0.00	0.000	2.279	0.0190	3.1631	1.6390	9.55E-02
310	0.40	0.000	0.400	0.0190	2.7127	1.4056	9.42E-02
311	0.00	0.000	0.000	0.0190	2.3233	1.2038	9.31E-02

312	0.00	0.000	0.000	0.0190	1.9865	1.0293	9.21E-02
313	0.00	0.000	0.000	0.0190	1.6953	0.8784	9.13E-02
314	5.00	0.000	0.676	0.0334	1.4435	0.7480	9.06E-02
315	0.00	0.000	0.809	0.0307	1.2258	0.6352	8.99E-02
316	0.90	0.000	1.000	0.0304	1.0375	0.5376	8.94E-02
317	6.60	0.000	0.972	0.0491	0.8747	0.4533	8.89E-02
318	2.00	0.000	0.966	0.0526	0.7340	0.3803	8.85E-02
319	0.00	0.000	0.874	0.0497	0.6122	0.3172	8.82E-02
320	0.00	0.000	0.827	0.0469	0.5070	0.2627	8.79E-02
321	0.00	0.000	0.787	0.0443	0.4159	0.2155	8.76E-02
322	0.40	0.000	0.858	0.0426	0.3397	0.1760	8.74E-02
323	2.90	0.000	0.830	0.0494	0.2867	0.1486	8.72E-02
324	22.00	0.000	0.804	0.0896	0.2540	0.1316	8.71E-02
325	17.60	0.000	5.013	0.0810	0.4193	0.2173	8.76E-02
326	0.40	0.000	5.090	0.0377	0.3436	0.1780	8.74E-02
327	0.20	0.000	5.813	0.0190	0.5364	0.2779	8.79E-02
328	0.50	0.000	0.500	0.0190	1.9074	0.9883	9.19E-02
329	0.30	0.000	0.300	0.0190	3.3698	1.7461	9.61E-02
330	10.00	0.000	3.885	0.0394	4.5213	2.3428	9.94E-02
331	6.50	0.000	3.655	0.0489	5.4142	2.8054	1.02E-01
332	0.60	0.000	5.201	0.0335	6.0071	3.1126	1.04E-01
333	0.00	0.000	4.058	0.0200	5.4105	2.8035	1.02E-01
334	0.20	0.000	0.425	0.0190	4.6709	2.4203	9.99E-02
335	0.00	0.000	0.000	0.0190	4.0212	2.0836	9.80E-02
336	0.00	0.000	0.000	0.0190	3.4547	1.7901	9.63E-02
337	0.00	0.000	0.000	0.0190	2.9649	1.5363	9.49E-02
338	0.00	0.000	0.000	0.0190	2.5414	1.3168	9.37E-02
339	0.00	0.000	0.000	0.0190	2.1751	1.1271	9.27E-02
340	0.00	0.000	0.000	0.0190	1.8584	0.9629	9.18E-02

341	0.00	0.000	0.000	0.0190	1.5845	0.8210	9.10E-02
342	0.00	0.000	0.000	0.0190	1.3477	0.6983	9.03E-02
343	0.60	0.000	0.188	0.0204	1.1430	0.5922	8.97E-02
344	5.40	0.000	0.460	0.0368	0.9659	0.5005	8.92E-02
345	0.70	0.000	0.761	0.0366	0.8128	0.4212	8.87E-02
346	27.50	0.000	0.800	0.0838	0.6804	0.3526	8.84E-02
347	0.00	0.000	5.958	0.0420	0.8600	0.4456	8.89E-02
348	0.00	0.000	5.966	0.0221	1.4366	0.7444	9.05E-02
349	1.20	0.000	1.344	0.0209	2.5861	1.3400	9.38E-02
350	0.00	0.000	0.459	0.0193	3.6684	1.9008	9.70E-02
351	0.00	0.000	0.076	0.0191	4.2810	2.2182	9.87E-02
352	0.00	0.000	0.019	0.0190	3.7448	1.9404	9.72E-02
353	0.00	0.000	0.005	0.0190	3.2157	1.6663	9.57E-02
354	0.00	0.000	0.001	0.0190	2.7582	1.4292	9.43E-02
355	17.20	0.000	1.012	0.0730	2.3626	1.2242	9.32E-02
356	3.80	0.000	5.489	0.0535	2.0206	1.0470	9.22E-02
357	9.40	0.000	1.118	0.0657	1.9745	1.0231	9.21E-02
358	0.00	0.000	6.179	0.0416	2.4541	1.2716	9.35E-02
359	0.00	0.000	6.403	0.0202	2.8879	1.4964	9.47E-02
360	0.00	0.000	0.374	0.0190	3.2191	1.6680	9.57E-02
361	0.00	0.000	0.000	0.0190	2.7612	1.4307	9.44E-02
362	0.00	0.000	0.000	0.0190	2.3652	1.2255	9.32E-02
363	0.90	0.000	0.235	0.0212	2.0228	1.0481	9.22E-02
364	25.30	0.000	1.217	0.1015	1.7267	0.8947	9.14E-02
365	0.40	0.000	3.820	0.0413	1.6342	0.8468	9.11E-02

* = Frozen (air or soil)

Annual Totals for Year 3			
	mm*	cubic meters	percent
Precipitation	2,077.30	20,773.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	515.578	5,155.8	24.82
Drainage Collected from Layer 2	1,747.2495	17,472.5	84.11
Percolation/Leakage through Layer 3	68.215492	682.2	3.28
Average Head on Top of Layer 3	38.9824 (cm)	---	---
Change in Water Storage	-253.7429	-2,537.4	-12.22
Soil Water at Start of Year	1,131.3300	11,313.3	54.46
Soil Water at End of Year	877.5871	8,775.9	42.25
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 4

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			20.40	0.000	4.479	0.0871		1.9788	1.0253	9.21E-02
2			14.80	0.000	4.142	0.0822		2.5654	1.3293	9.38E-02
3			14.20	0.000	5.164	0.0713		2.5498	1.3212	9.37E-02
4			0.60	0.000	5.167	0.0469		2.2768	1.1797	9.30E-02
5			0.00	0.000	3.825	0.0342		2.6650	1.3809	9.41E-02
6	*Note: head c		87.60	0.000	4.643	0.1140		4.0574	2.1024	9.81E-02
7			8.60	0.000	6.206	0.0570		4.0765	2.1123	9.81E-02
8			0.00	0.000	6.270	0.0361		4.8119	2.4933	1.00E-01
9			6.80	0.000	6.236	0.0379		7.5531	3.9137	1.08E-01
10			0.00	0.000	4.843	0.0218		9.6002	4.9745	1.14E-01
11			0.00	0.000	0.629	0.0197		11.0516	5.7265	1.18E-01
12			0.70	0.000	0.764	0.0195		12.0428	6.2401	1.21E-01
13			3.60	0.000	1.802	0.0255		12.6785	6.5695	1.23E-01
14			66.60	0.000	6.239	0.1160		13.0505	6.7622	1.24E-01
15			55.40	0.000	3.104	0.0968		12.6962	6.5787	1.23E-01
16			10.90	0.000	4.464	0.0617		11.1232	5.7636	1.18E-01
17			2.40	0.000	5.401	0.0503		10.5781	5.4811	1.17E-01
18			2.60	0.000	4.825	0.0425		13.3035	6.8933	1.25E-01
19			1.40	0.000	5.954	0.0273		15.6000	8.0833	1.31E-01
20			5.90	0.000	4.141	0.0332		17.0803	8.8503	1.36E-01
21			0.00	0.000	3.291	0.0222		17.9447	9.2982	1.38E-01

22	0.00	0.000	0.751	0.0197	18.3541	9.5103	1.39E-01
23	0.00	0.000	0.185	0.0191	18.4296	9.5495	1.39E-01
24	0.00	0.000	0.034	0.0190	18.2622	9.4627	1.39E-01
25	0.00	0.000	0.000	0.0190	17.9204	9.2856	1.38E-01
26	0.00	0.000	0.000	0.0190	17.4561	9.0450	1.37E-01
27	0.00	0.000	0.000	0.0190	16.9087	8.7614	1.35E-01
28	1.70	0.000	0.415	0.0233	16.3079	8.4501	1.33E-01
29	0.00	0.000	0.503	0.0216	15.6764	8.1229	1.32E-01
30	0.00	0.000	0.582	0.0197	15.0311	7.7885	1.30E-01
31	0.00	0.000	0.167	0.0191	14.0678	7.2894	1.27E-01
32	0.20	0.000	0.157	0.0193	12.1890	6.3158	1.22E-01
33	1.20	0.000	0.135	0.0228	10.5175	5.4498	1.17E-01
34	2.50	0.000	0.404	0.0298	9.0722	4.7008	1.13E-01
35	31.60	0.000	0.817	0.0819	7.8224	4.0532	1.09E-01
36	11.40	0.000	2.852	0.0695	7.0331	3.6443	1.07E-01
37	7.90	0.000	6.028	0.0608	6.7253	3.4848	1.06E-01
38	0.00	0.000	5.604	0.0389	6.4105	3.3217	1.05E-01
39	0.00	0.000	5.630	0.0201	6.9477	3.6000	1.06E-01
40	1.20	0.000	0.943	0.0210	7.6616	3.9699	1.08E-01
41	1.00	0.000	0.582	0.0224	8.1758	4.2364	1.10E-01
42	20.40	0.000	2.751	0.0812	8.5378	4.4240	1.11E-01
43	2.40	0.000	2.884	0.0491	8.1528	4.2244	1.10E-01
44	2.10	0.000	3.127	0.0415	7.0505	3.6533	1.07E-01
45	8.00	0.000	2.992	0.0582	6.9227	3.5871	1.06E-01
46	76.90	0.000	5.360	0.1089	7.3398	3.8032	1.08E-01
47	0.20	0.000	4.333	0.0480	6.6369	3.4390	1.06E-01
48	0.60	0.000	7.033	0.0266	7.0846	3.6710	1.07E-01
49	0.00	0.000	2.279	0.0190	8.6310	4.4722	1.11E-01
50	0.40	0.000	0.400	0.0190	9.8132	5.0848	1.15E-01

51	0.00	0.000	0.000	0.0190	10.6349	5.5106	1.17E-01
52	0.20	0.000	0.200	0.0190	11.1739	5.7899	1.19E-01
53	0.00	0.000	0.000	0.0190	11.4917	5.9545	1.19E-01
54	0.20	0.000	0.200	0.0190	11.6372	6.0299	1.20E-01
55	0.00	0.000	0.000	0.0190	11.6494	6.0362	1.20E-01
56	4.60	0.000	0.619	0.0323	11.5594	5.9896	1.20E-01
57	5.60	0.000	0.857	0.0481	11.1771	5.7915	1.19E-01
58	47.00	0.000	1.136	0.1087	9.7404	5.0471	1.14E-01
59	102.50	0.000	3.196	0.1155	8.4002	4.3527	1.11E-01
60	52.80	0.000	6.169	0.0945	7.2687	3.7663	1.07E-01
61	0.00	0.000	6.656	0.0461	6.6825	3.4626	1.06E-01
62	0.00	0.000	7.008	0.0228	10.3363	5.3559	1.16E-01
63	0.00	0.000	0.847	0.0190	15.1395	7.8447	1.30E-01
64	10.00	0.000	3.905	0.0393	18.1184	9.3882	1.39E-01
65	11.20	0.000	5.127	0.0596	19.9730	10.3492	1.44E-01
66	0.00	0.000	5.733	0.0405	21.0057	10.8843	1.47E-01
67	0.60	0.000	5.173	0.0252	21.4521	11.1156	1.48E-01
68	38.40	0.000	4.420	0.0832	21.4807	11.1304	1.48E-01
69	0.60	0.000	4.862	0.0411	20.7197	10.7361	1.46E-01
70	0.40	0.000	5.325	0.0246	19.2498	9.9745	1.42E-01
71	4.30	0.000	3.464	0.0261	19.2853	9.9929	1.42E-01
72	1.00	0.000	2.068	0.0225	19.3015	10.0012	1.42E-01
73	1.60	0.000	1.556	0.0227	19.1165	9.9054	1.41E-01
74	0.00	0.000	0.812	0.0200	18.7444	9.7126	1.40E-01
75	0.00	0.000	0.221	0.0192	18.2419	9.4522	1.39E-01
76	0.00	0.000	0.058	0.0191	17.6517	9.1464	1.37E-01
77	0.00	0.000	0.012	0.0190	17.0060	8.8118	1.35E-01
78	0.00	0.000	0.003	0.0190	16.3291	8.4611	1.33E-01
79	0.00	0.000	0.001	0.0190	15.6389	8.1035	1.31E-01

80	0.00	0.000	0.000	0.0190	14.9325	7.7374	1.29E-01
81	2.40	0.000	0.549	0.0252	13.2641	6.8729	1.25E-01
82	0.00	0.000	0.455	0.0237	11.4472	5.9315	1.19E-01
83	1.20	0.000	0.718	0.0253	9.8761	5.1174	1.15E-01
84	2.20	0.000	0.551	0.0308	8.5175	4.4134	1.11E-01
85	0.00	0.000	0.611	0.0287	7.3428	3.8047	1.08E-01
86	0.00	0.000	0.601	0.0267	6.3269	3.2784	1.05E-01
87	0.00	0.000	0.649	0.0245	5.4485	2.8232	1.02E-01
88	0.00	0.000	0.610	0.0225	4.6890	2.4296	9.99E-02
89	0.80	0.000	0.642	0.0230	4.0322	2.0893	9.80E-02
90	1.20	0.000	0.682	0.0248	3.4642	1.7950	9.64E-02
91	6.10	0.000	0.509	0.0434	2.9731	1.5406	9.50E-02
92	0.20	0.000	0.667	0.0418	2.5485	1.3205	9.37E-02
93	33.10	0.000	0.658	0.0948	2.1813	1.1302	9.27E-02
94	0.00	0.000	6.072	0.0395	1.8637	0.9657	9.18E-02
95	0.00	0.000	6.154	0.0190	2.1210	1.0990	9.25E-02
96	0.20	0.000	0.200	0.0190	3.4101	1.7670	9.62E-02
97	26.80	0.000	5.600	0.0897	4.5655	2.3656	9.95E-02
98	0.00	0.000	5.097	0.0459	5.4186	2.8077	1.02E-01
99	0.40	0.000	5.022	0.0270	5.2460	2.7182	1.02E-01
100	0.00	0.000	2.411	0.0190	5.6487	2.9269	1.03E-01
101	2.30	0.000	1.446	0.0218	6.3335	3.2818	1.05E-01
102	0.00	0.000	0.633	0.0197	6.3862	3.3091	1.05E-01
103	0.00	0.000	0.167	0.0192	5.4998	2.8498	1.02E-01
104	0.20	0.000	0.240	0.0190	4.7333	2.4526	1.00E-01
105	0.00	0.000	0.010	0.0190	4.0705	2.1092	9.81E-02
106	0.00	0.000	0.003	0.0190	3.4974	1.8122	9.65E-02
107	0.00	0.000	0.001	0.0190	3.0018	1.5554	9.50E-02
108	0.40	0.000	0.144	0.0199	2.5732	1.3333	9.38E-02

109	0.20	0.000	0.135	0.0201	2.2027	1.1413	9.27E-02
110	0.00	0.000	0.180	0.0195	1.8822	0.9753	9.18E-02
111	0.00	0.000	0.108	0.0191	1.6052	0.8317	9.10E-02
112	0.00	0.000	0.026	0.0190	1.3656	0.7076	9.03E-02
113	0.00	0.000	0.005	0.0190	1.1584	0.6002	8.97E-02
114	7.80	0.000	0.368	0.0438	0.9792	0.5074	8.92E-02
115	0.00	0.000	0.593	0.0418	0.8243	0.4271	8.88E-02
116	2.20	0.000	0.724	0.0467	0.6904	0.3577	8.84E-02
117	10.90	0.000	0.701	0.0696	0.5745	0.2977	8.81E-02
118	0.10	0.000	0.692	0.0569	0.5066	0.2625	8.79E-02
119	0.00	0.000	0.627	0.0525	1.0022	0.5193	8.93E-02
120	0.40	0.000	0.663	0.0498	1.9481	1.0094	9.20E-02
121	0.80	0.000	0.647	0.0497	1.9941	1.0332	9.21E-02
122	0.20	0.000	0.630	0.0480	1.7163	0.8893	9.13E-02
123	0.00	0.000	0.563	0.0451	1.5182	0.7867	9.08E-02
124	0.00	0.000	0.550	0.0425	1.3600	0.7047	9.03E-02
125	0.00	0.000	0.477	0.0407	1.1992	0.6214	8.99E-02
126	0.00	0.000	0.526	0.0389	1.0219	0.5295	8.93E-02
127	0.00	0.000	0.515	0.0372	0.8612	0.4462	8.89E-02
128	0.00	0.000	0.505	0.0355	0.7223	0.3742	8.85E-02
129	0.90	0.000	0.550	0.0367	0.6021	0.3120	8.81E-02
130	6.80	0.000	0.541	0.0576	0.4982	0.2582	8.78E-02
131	0.20	0.000	0.531	0.0559	0.4084	0.2116	8.76E-02
132	0.00	0.000	0.469	0.0529	0.4169	0.2160	8.76E-02
133	0.00	0.000	0.461	0.0513	0.4102	0.2125	8.76E-02
134	0.00	0.000	0.454	0.0498	0.3322	0.1722	8.74E-02
135	0.00	0.000	0.447	0.0483	0.2649	0.1372	8.72E-02
136	0.00	0.000	0.440	0.0469	0.2066	0.1070	8.70E-02
137	0.00	0.000	0.434	0.0454	0.1562	0.0809	8.68E-02

138	0.00	0.000	0.428	0.0440	0.1126	0.0584	8.67E-02
139	0.00	0.000	0.422	0.0426	0.0750	0.0388	8.66E-02
140	0.00	0.000	0.416	0.0412	0.0424	0.0220	8.65E-02
141	0.00	0.000	0.411	0.0398	0.0142	0.0072	8.09E-02
142	0.00	0.000	0.405	0.0385	0.0000	0.0000	0.00E+00
143	1.00	0.000	0.458	0.0403	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.396	0.0390	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.391	0.0377	0.0000	0.0000	0.00E+00
146	5.20	0.000	0.444	0.0535	0.0000	0.0000	0.00E+00
147	0.30	0.000	0.440	0.0528	0.0103	0.0054	4.32E-02
148	0.00	0.000	0.378	0.0512	0.0135	0.0070	8.64E-02
149	0.10	0.000	0.422	0.0494	0.0261	0.0135	8.65E-02
150	0.00	0.000	0.370	0.0478	0.0401	0.0208	8.65E-02
151	0.00	0.000	0.366	0.0466	0.0284	0.0147	8.65E-02
152	0.00	0.000	0.362	0.0454	0.0041	0.0020	3.97E-02
153	0.00	0.000	0.359	0.0442	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.355	0.0430	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.352	0.0419	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.348	0.0407	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.345	0.0396	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.342	0.0384	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.339	0.0373	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.336	0.0362	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.333	0.0351	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.330	0.0339	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.328	0.0329	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.325	0.0318	0.0000	0.0000	0.00E+00
165	0.40	0.000	0.385	0.0318	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.320	0.0308	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.308	0.0297	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.301	0.0287	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.302	0.0277	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.307	0.0267	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.307	0.0257	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.306	0.0247	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.304	0.0236	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.301	0.0226	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.299	0.0216	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.297	0.0206	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.295	0.0197	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.199	0.0190	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
185	1.00	0.000	0.091	0.0220	0.0000	0.0000	0.00E+00
186	3.50	0.000	0.184	0.0331	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.186	0.0325	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.227	0.0317	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.225	0.0310	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.224	0.0302	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.243	0.0294	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.246	0.0286	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.244	0.0278	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.222	0.0270	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.242	0.0262	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.240	0.0254	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.239	0.0246	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.238	0.0238	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.237	0.0230	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.235	0.0223	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.234	0.0215	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.245	0.0207	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.246	0.0198	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.214	0.0191	0.0000	0.0000	0.00E+00
205	7.40	0.000	0.219	0.0431	0.0000	0.0000	0.00E+00
206	1.20	0.000	0.281	0.0461	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.241	0.0453	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.240	0.0445	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.245	0.0437	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.246	0.0429	0.0001	0.0000	9.63E-04
211	0.00	0.000	0.245	0.0421	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.244	0.0413	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.242	0.0404	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.241	0.0396	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.240	0.0388	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.239	0.0380	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.238	0.0373	0.0000	0.0000	0.00E+00
218	4.40	0.000	0.318	0.0509	0.0002	0.0000	2.35E-03
219	0.00	0.000	0.236	0.0501	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.235	0.0492	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.234	0.0483	0.0030	0.0015	4.01E-02
222	0.00	0.000	0.233	0.0472	0.0035	0.0018	8.64E-02
223	0.00	0.000	0.232	0.0464	0.0008	0.0004	2.05E-02
224	0.00	0.000	0.231	0.0457	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.230	0.0449	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.229	0.0441	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.228	0.0434	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.227	0.0426	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.227	0.0419	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.226	0.0411	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.225	0.0404	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.224	0.0396	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.223	0.0389	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.222	0.0381	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.221	0.0374	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.221	0.0367	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.220	0.0359	0.0000	0.0000	0.00E+00
238	1.00	0.000	0.308	0.0382	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.218	0.0373	0.0041	0.0021	4.32E-02
240	0.00	0.000	0.217	0.0365	0.0048	0.0023	5.15E-02
241	0.00	0.000	0.217	0.0357	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.216	0.0350	0.0000	0.0000	0.00E+00
243	0.80	0.000	0.306	0.0367	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.214	0.0358	0.0032	0.0017	4.35E-02
245	0.00	0.000	0.213	0.0351	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.213	0.0344	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.212	0.0337	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.211	0.0330	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.211	0.0323	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.208	0.0316	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.209	0.0309	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.208	0.0302	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.208	0.0295	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.207	0.0288	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.206	0.0281	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.206	0.0274	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.205	0.0267	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.204	0.0261	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.204	0.0254	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.203	0.0247	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.202	0.0240	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.202	0.0234	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.201	0.0227	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.201	0.0220	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.200	0.0213	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.199	0.0207	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.199	0.0200	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.198	0.0194	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.108	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	2.80	0.000	0.190	0.0277	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.082	0.0274	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.131	0.0270	0.0000	0.0000	0.00E+00
275	1.10	0.000	0.239	0.0299	0.0000	0.0000	0.00E+00
276	0.60	0.000	0.267	0.0310	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.173	0.0304	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.164	0.0299	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.160	0.0293	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.157	0.0288	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.157	0.0283	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.156	0.0278	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.156	0.0272	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.156	0.0267	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.172	0.0261	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.172	0.0256	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.171	0.0250	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.171	0.0244	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.170	0.0239	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.170	0.0233	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.169	0.0227	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.169	0.0222	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.168	0.0216	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.168	0.0210	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.171	0.0205	0.0000	0.0000	0.00E+00
296	1.00	0.000	0.289	0.0228	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.175	0.0223	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.176	0.0217	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.176	0.0211	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.167	0.0205	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.134	0.0201	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.121	0.0197	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.121	0.0193	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.065	0.0191	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.016	0.0190	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
307	0.10	0.000	0.085	0.0191	0.0000	0.0000	0.00E+00
308	9.30	0.000	0.246	0.0492	0.0000	0.0000	0.00E+00
309	7.80	0.000	0.289	0.0622	0.0436	0.0226	2.17E-02
310	35.00	0.000	4.724	0.0985	0.1452	0.0753	8.68E-02
311	2.80	0.000	6.504	0.0406	0.1032	0.0535	8.67E-02

312	0.00	0.000	5.895	0.0209	0.6548	0.3393	8.83E-02
313	44.40	0.000	5.972	0.0849	2.3345	1.2096	9.31E-02
314	0.00	0.000	5.798	0.0393	3.4123	1.7681	9.62E-02
315	0.00	0.000	4.744	0.0224	3.6256	1.8786	9.68E-02
316	0.20	0.000	1.235	0.0190	4.9611	2.5707	1.01E-01
317	0.00	0.000	0.000	0.0190	6.2784	3.2532	1.04E-01
318	0.00	0.000	0.000	0.0190	7.2682	3.7661	1.07E-01
319	0.00	0.000	0.000	0.0190	7.9936	4.1420	1.09E-01
320	0.00	0.000	0.000	0.0190	8.5063	4.4076	1.11E-01
321	0.80	0.000	0.308	0.0206	8.8482	4.5848	1.12E-01
322	47.80	0.000	1.750	0.0939	8.9408	4.6328	1.12E-01
323	23.80	0.000	5.243	0.0978	7.9715	4.1305	1.09E-01
324	37.10	0.000	3.719	0.0983	7.4313	3.8506	1.08E-01
325	9.20	0.000	4.471	0.0647	6.7200	3.4820	1.06E-01
326	0.40	0.000	4.107	0.0449	6.7131	3.4785	1.06E-01
327	36.40	0.000	4.990	0.0934	7.5180	3.8955	1.08E-01
328	0.00	0.000	5.156	0.0483	8.4434	4.3750	1.11E-01
329	0.10	0.000	5.352	0.0308	8.3546	4.3290	1.10E-01
330	1.60	0.000	3.414	0.0226	10.3052	5.3397	1.16E-01
331	39.00	0.000	3.198	0.0828	11.7779	6.1028	1.20E-01
332	5.60	0.000	3.552	0.0600	12.2813	6.3637	1.22E-01
333	8.20	0.000	4.644	0.0650	11.8323	6.1310	1.20E-01
334	3.00	0.000	4.116	0.0586	12.5381	6.4968	1.23E-01
335	0.00	0.000	4.733	0.0405	13.3304	6.9073	1.25E-01
336	0.70	0.000	5.201	0.0255	14.0159	7.2625	1.27E-01
337	0.00	0.000	1.489	0.0192	14.4598	7.4925	1.28E-01
338	0.00	0.000	0.044	0.0191	14.6377	7.5847	1.29E-01
339	0.00	0.000	0.014	0.0190	14.6750	7.6040	1.29E-01
340	0.00	0.000	0.003	0.0190	14.5538	7.5412	1.28E-01

341	0.00	0.000	0.001	0.0190	14.3153	7.4176	1.28E-01
342	0.00	0.000	0.000	0.0190	13.9920	7.2501	1.27E-01
343	0.00	0.000	0.000	0.0190	13.6087	7.0515	1.26E-01
344	0.00	0.000	0.000	0.0190	13.1289	6.8029	1.24E-01
345	0.00	0.000	0.000	0.0190	11.6119	6.0168	1.20E-01
346	0.00	0.000	0.000	0.0190	10.0185	5.1912	1.15E-01
347	0.00	0.000	0.000	0.0190	8.6407	4.4772	1.11E-01
348	0.40	0.000	0.208	0.0196	7.4492	3.8599	1.08E-01
349	1.40	0.000	0.266	0.0234	6.4190	3.3261	1.05E-01
350	0.00	0.000	0.346	0.0223	5.5282	2.8645	1.02E-01
351	0.00	0.000	0.529	0.0205	4.7578	2.4653	1.00E-01
352	0.00	0.000	0.341	0.0194	4.0917	2.1202	9.82E-02
353	9.00	0.000	0.730	0.0469	3.5157	1.8217	9.65E-02
354	8.40	0.000	0.742	0.0620	3.0176	1.5636	9.51E-02
355	0.00	0.000	0.669	0.0581	2.7147	1.4067	9.42E-02
356	0.00	0.000	0.647	0.0542	3.1101	1.6115	9.54E-02
357	0.00	0.000	0.627	0.0521	2.8377	1.4704	9.46E-02
358	1.00	0.000	0.749	0.0529	2.4314	1.2599	9.34E-02
359	5.50	0.000	0.733	0.0676	2.0896	1.0827	9.24E-02
360	52.40	0.000	0.717	0.1023	1.8688	0.9683	9.18E-02
361	40.60	0.000	5.203	0.1009	1.5935	0.8257	9.10E-02
362	0.00	0.000	6.011	0.0474	1.3611	0.7053	9.03E-02
363	0.00	0.000	6.215	0.0266	2.6854	1.3915	9.41E-02
364	0.00	0.000	1.950	0.0190	5.2580	2.7245	1.02E-01
365	0.00	0.000	0.000	0.0190	7.1956	3.7285	1.07E-01

* = Frozen (air or soil)

Annual Totals for Year 4			
	mm*	cubic meters	percent
Precipitation	1,325.00	13,250.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	439.444	4,394.4	33.17
Drainage Collected from Layer 2	810.1076	8,101.1	61.14
Percolation/Leakage through Layer 3	22.342564	223.4	1.69
Average Head on Top of Layer 3	4.2717 (cm)	---	---
Change in Water Storage	53.1055	531.1	4.01
Soil Water at Start of Year	877.5871	8,775.9	66.23
Soil Water at End of Year	930.6925	9,306.9	70.24
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 5

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.000	0.0190		9.7155	5.0342	1.14E-01
2			0.00	0.000	0.000	0.0190		10.4442	5.4117	1.16E-01
3			0.00	0.000	0.000	0.0190		10.9173	5.6569	1.18E-01
4			1.20	0.000	0.272	0.0221		11.1901	5.7982	1.19E-01
5			0.00	0.000	0.589	0.0201		11.3064	5.8585	1.19E-01
6	*Note: head c		0.00	0.000	0.253	0.0193		11.3015	5.8560	1.19E-01
7			0.00	0.000	0.064	0.0191		11.1993	5.8030	1.19E-01
8			0.00	0.000	0.016	0.0190		10.1049	5.2360	1.16E-01
9			0.00	0.000	0.004	0.0190		8.7154	4.5160	1.11E-01
10			0.80	0.000	0.175	0.0211		7.5139	3.8934	1.08E-01
11			32.00	0.000	0.893	0.0890		6.4749	3.3550	1.05E-01
12			120.90	0.000	3.500	0.1203		5.7466	2.9776	1.03E-01
13			1.80	0.000	3.983	0.0502		4.9467	2.5632	1.01E-01
14			0.00	0.000	5.826	0.0285		7.2004	3.7310	1.07E-01
15			0.00	0.000	2.775	0.0193		10.4886	5.4347	1.17E-01
16			1.60	0.000	0.787	0.0220		12.8919	6.6801	1.24E-01
17			0.00	0.000	0.629	0.0199		14.5211	7.5242	1.28E-01
18			0.00	0.000	0.194	0.0192		15.5549	8.0599	1.31E-01
19			0.00	0.000	0.049	0.0191		16.1425	8.3644	1.33E-01
20			0.00	0.000	0.012	0.0190		16.3963	8.4959	1.34E-01
21			0.00	0.000	0.003	0.0190		16.4020	8.4988	1.34E-01

22	0.00	0.000	0.001	0.0190	16.2247	8.4070	1.33E-01
23	0.00	0.000	0.000	0.0190	15.9146	8.2463	1.32E-01
24	2.80	0.000	0.542	0.0265	15.5102	8.0367	1.31E-01
25	0.00	0.000	0.418	0.0251	15.0411	7.7937	1.30E-01
26	13.80	0.000	0.713	0.0688	14.5301	7.5289	1.28E-01
27	0.60	0.000	5.202	0.0477	14.0010	7.2548	1.27E-01
28	0.00	0.000	0.874	0.0448	12.8871	6.6776	1.24E-01
29	29.80	0.000	0.916	0.0878	11.1826	5.7944	1.19E-01
30	0.00	0.000	5.469	0.0438	9.6886	5.0202	1.14E-01
31	0.00	0.000	6.772	0.0212	8.6614	4.4880	1.11E-01
32	0.00	0.000	0.497	0.0190	8.8450	4.5831	1.12E-01
33	0.00	0.000	0.000	0.0190	9.2070	4.7707	1.13E-01
34	0.00	0.000	0.000	0.0190	9.4522	4.8977	1.14E-01
35	0.00	0.000	0.000	0.0190	9.4090	4.8754	1.13E-01
36	11.30	0.000	1.169	0.0528	8.2391	4.2691	1.10E-01
37	50.60	0.000	2.696	0.1052	7.1020	3.6800	1.07E-01
38	28.50	0.000	2.494	0.1011	6.1483	3.1858	1.04E-01
39	51.00	0.000	5.495	0.1003	5.6927	2.9497	1.03E-01
40	1.00	0.000	5.144	0.0449	4.9293	2.5542	1.01E-01
41	0.00	0.000	4.422	0.0301	5.9839	3.1006	1.04E-01
42	0.60	0.000	3.835	0.0193	8.9334	4.6289	1.12E-01
43	0.00	0.000	0.062	0.0191	11.0869	5.7448	1.18E-01
44	0.00	0.000	0.027	0.0190	12.5766	6.5167	1.23E-01
45	0.60	0.000	0.583	0.0191	13.5599	7.0262	1.25E-01
46	1.70	0.000	0.594	0.0228	14.1571	7.3356	1.27E-01
47	146.20	0.000	2.181	0.1348	14.4125	7.4680	1.28E-01
48	59.80	0.000	2.968	0.0930	13.1701	6.8242	1.24E-01
49	153.50	0.000	3.626	0.1320	12.1354	6.2881	1.21E-01
50	53.30	0.000	6.059	0.0948	12.7355	6.5990	1.23E-01

51	21.00	0.000	5.403	0.0903	32.5561	13.5326	1.80E-01
52	8.60	0.000	5.497	0.0641	378.7145	23.2650	1.18E+00
53	38.80	0.000	4.671	0.1027	365.5075	22.8465	1.14E+00
54	7.20	0.000	3.724	0.0653	292.8833	21.1644	9.30E-01
55	84.80	0.000	3.926	0.1076	282.6633	20.8203	9.00E-01
56	120.60	0.000	3.397	0.1194	140.2393	17.6242	4.90E-01
57	16.00	0.000	5.031	0.0711	508.6427	27.5001	1.55E+00
58	12.40	0.000	4.699	0.0680	497.8807	27.1422	1.52E+00
59	52.00	0.000	4.145	0.1008	481.1514	26.5882	1.47E+00
60	10.90	0.000	6.291	0.0665	491.8159	26.9409	1.50E+00
61	0.00	0.000	5.807	0.0403	474.5523	26.3707	1.45E+00
62	1.00	0.000	6.416	0.0223	447.0089	25.4672	1.37E+00
63	0.00	0.000	0.726	0.0194	419.2606	24.5655	1.29E+00
64	0.00	0.000	0.086	0.0191	392.4520	23.7034	1.22E+00
65	0.00	0.000	0.021	0.0190	366.5781	22.8543	1.14E+00
66	0.00	0.000	0.005	0.0190	341.6975	22.0060	1.07E+00
67	0.00	0.000	0.001	0.0190	317.7230	21.2808	1.00E+00
68	0.00	0.000	0.000	0.0190	294.5701	20.5898	9.35E-01
69	0.30	0.000	0.190	0.0194	272.2006	19.9325	8.70E-01
70	21.60	0.000	1.176	0.0874	250.5766	19.3089	8.08E-01
71	0.00	0.000	4.964	0.0420	189.0134	18.0006	6.31E-01
72	3.80	0.000	1.257	0.0488	137.3132	16.9755	4.82E-01
73	0.20	0.000	5.553	0.0305	201.6576	17.9566	6.67E-01
74	0.00	0.000	0.977	0.0273	120.6581	16.4874	4.34E-01
75	0.00	0.000	1.000	0.0240	59.7240	15.5961	2.58E-01
76	0.00	0.000	0.931	0.0209	57.7466	15.5927	2.53E-01
77	190.00	0.000	0.927	0.1466	51.3261	15.5816	2.34E-01
78	19.60	0.000	6.723	0.0801	42.8314	15.5669	2.10E-01
79	0.00	0.000	4.972	0.0428	232.0947	19.2474	7.55E-01

80	0.00	0.000	5.754	0.0237	276.0720	20.0454	8.81E-01
81	0.90	0.000	1.932	0.0202	254.4275	19.4190	8.19E-01
82	0.00	0.000	0.279	0.0193	233.3863	18.8231	7.59E-01
83	0.00	0.000	0.075	0.0190	213.0218	18.2617	7.00E-01
84	0.00	0.000	0.009	0.0190	161.9056	17.2360	5.53E-01
85	0.00	0.000	0.002	0.0190	90.6330	16.0476	3.47E-01
86	0.00	0.000	0.001	0.0190	59.3501	15.5955	2.57E-01
87	0.00	0.000	0.000	0.0190	56.5366	15.5906	2.49E-01
88	0.00	0.000	0.000	0.0190	52.1424	15.5830	2.37E-01
89	0.00	0.000	0.000	0.0190	46.4837	15.5732	2.20E-01
90	0.00	0.000	0.000	0.0190	39.7949	15.5617	2.01E-01
91	0.00	0.000	0.000	0.0190	31.7652	15.3660	1.78E-01
92	0.00	0.000	0.000	0.0190	27.8484	14.4299	1.67E-01
93	4.40	0.000	0.415	0.0323	25.9997	13.4720	1.61E-01
94	174.20	0.000	0.877	0.1422	24.2261	12.5530	1.56E-01
95	299.70	0.000	6.628	0.1680	21.3178	11.0460	1.48E-01
96	0.00	0.000	4.005	0.0404	137.8645	15.2680	4.83E-01
97	0.00	0.000	5.903	0.0207	466.7814	26.1150	1.43E+00
98	14.00	0.000	3.155	0.0564	438.2902	25.1829	1.35E+00
99	19.50	0.000	4.555	0.0899	410.8924	24.2954	1.27E+00
100	0.00	0.000	5.362	0.0432	389.9586	23.6234	1.21E+00
101	4.60	0.000	6.626	0.0355	372.5155	23.0685	1.16E+00
102	6.60	0.000	6.029	0.0374	347.6852	22.1885	1.09E+00
103	0.80	0.000	4.348	0.0256	323.5041	21.4548	1.02E+00
104	0.00	0.000	1.657	0.0201	300.1540	20.7555	9.51E-01
105	0.00	0.000	0.257	0.0192	277.5966	20.0900	8.86E-01
106	0.00	0.000	0.064	0.0190	255.7939	19.4581	8.23E-01
107	1.60	0.000	0.635	0.0222	234.7082	18.8601	7.62E-01
108	0.00	0.000	0.689	0.0199	214.3017	18.2965	7.04E-01

109	0.00	0.000	0.213	0.0192	194.5391	17.7439	6.47E-01
110	0.00	0.000	0.053	0.0191	89.6937	16.0260	3.45E-01
111	2.20	0.000	0.566	0.0245	59.2446	15.5953	2.57E-01
112	3.40	0.000	0.508	0.0341	56.5226	15.5906	2.49E-01
113	0.00	0.000	0.673	0.0319	52.2011	15.5831	2.37E-01
114	1.20	0.000	0.816	0.0332	46.6012	15.5734	2.21E-01
115	1.80	0.000	0.808	0.0365	39.9609	15.5620	2.01E-01
116	3.60	0.000	0.805	0.0458	31.8882	15.3788	1.78E-01
117	4.00	0.000	0.812	0.0564	27.9018	14.4576	1.67E-01
118	16.80	0.000	3.494	0.0837	26.0479	13.4969	1.61E-01
119	7.20	0.000	4.602	0.0624	23.7574	12.3101	1.55E-01
120	0.40	0.000	5.209	0.0464	20.7888	10.7719	1.46E-01
121	0.00	0.000	5.904	0.0267	19.5327	10.1210	1.43E-01
122	0.00	0.000	1.969	0.0190	18.6832	9.6809	1.40E-01
123	0.00	0.000	0.000	0.0190	17.8035	9.2250	1.38E-01
124	0.00	0.000	0.000	0.0190	16.9883	8.8027	1.35E-01
125	26.20	0.000	1.528	0.1012	16.1828	8.3853	1.33E-01
126	0.00	0.000	6.252	0.0435	15.2980	7.9268	1.30E-01
127	0.00	0.000	6.340	0.0224	14.1817	7.3484	1.27E-01
128	0.00	0.000	1.017	0.0190	13.6298	7.0624	1.26E-01
129	0.00	0.000	0.000	0.0190	12.3496	6.3991	1.22E-01
130	0.00	0.000	0.000	0.0190	10.6564	5.5217	1.17E-01
131	0.00	0.000	0.000	0.0190	9.1923	4.7631	1.13E-01
132	0.00	0.000	0.000	0.0190	7.9263	4.1071	1.09E-01
133	0.00	0.000	0.000	0.0190	6.8315	3.5398	1.06E-01
134	1.50	0.000	0.192	0.0234	5.8848	3.0493	1.03E-01
135	0.00	0.000	0.418	0.0220	5.0662	2.6251	1.01E-01
136	0.00	0.000	0.626	0.0199	4.3584	2.2583	9.90E-02
137	0.00	0.000	0.207	0.0192	3.7463	1.9412	9.72E-02

138	0.00	0.000	0.049	0.0190	3.2171	1.6669	9.57E-02
139	0.00	0.000	0.007	0.0190	2.7594	1.4298	9.43E-02
140	1.30	0.000	0.117	0.0230	2.3636	1.2247	9.32E-02
141	0.00	0.000	0.302	0.0219	2.0214	1.0474	9.22E-02
142	0.00	0.000	0.466	0.0204	1.7255	0.8941	9.14E-02
143	0.00	0.000	0.344	0.0192	1.4696	0.7615	9.06E-02
144	0.00	0.000	0.055	0.0191	1.2484	0.6469	9.00E-02
145	0.00	0.000	0.014	0.0190	1.0571	0.5477	8.94E-02
146	0.00	0.000	0.003	0.0190	0.8916	0.4620	8.90E-02
147	0.00	0.000	0.001	0.0190	0.7486	0.3879	8.86E-02
148	0.00	0.000	0.000	0.0190	0.6249	0.3238	8.82E-02
149	0.00	0.000	0.000	0.0190	0.5179	0.2683	8.79E-02
150	0.00	0.000	0.000	0.0190	0.4254	0.2204	8.76E-02
151	0.00	0.000	0.000	0.0190	0.3454	0.1790	8.74E-02
152	0.00	0.000	0.000	0.0190	0.2762	0.1431	8.72E-02
153	0.00	0.000	0.000	0.0190	0.2164	0.1121	8.70E-02
154	0.00	0.000	0.000	0.0190	0.1647	0.0854	8.69E-02
155	0.00	0.000	0.000	0.0190	0.1200	0.0622	8.67E-02
156	0.00	0.000	0.000	0.0190	0.0813	0.0421	8.66E-02
157	0.00	0.000	0.000	0.0190	0.0479	0.0248	8.65E-02
158	0.00	0.000	0.000	0.0190	0.0190	0.0098	8.65E-02
159	0.00	0.000	0.000	0.0190	0.0007	0.0002	1.00E-02
160	3.40	0.000	0.242	0.0295	0.0000	0.0000	0.00E+00
161	6.40	0.000	0.353	0.0497	0.0000	0.0000	0.00E+00
162	27.00	0.000	0.478	0.0939	0.0000	0.0000	0.00E+00
163	1.80	0.000	4.888	0.0466	0.0000	0.0000	0.00E+00
164	0.00	0.000	4.335	0.0321	0.4908	0.2543	8.78E-02
165	0.00	0.000	2.970	0.0193	1.9227	0.9962	9.19E-02
166	0.80	0.000	0.488	0.0203	3.0445	1.5775	9.52E-02

167	0.00	0.000	0.295	0.0193	4.1139	2.1317	9.82E-02
168	0.00	0.000	0.086	0.0191	4.9011	2.5395	1.01E-01
169	0.00	0.000	0.014	0.0190	4.4766	2.3196	9.93E-02
170	0.00	0.000	0.003	0.0190	3.8485	1.9941	9.75E-02
171	0.00	0.000	0.001	0.0190	3.3054	1.7127	9.59E-02
172	0.00	0.000	0.000	0.0190	2.8358	1.4694	9.46E-02
173	0.00	0.000	0.000	0.0190	2.4297	1.2590	9.34E-02
174	0.00	0.000	0.000	0.0190	2.0786	1.0770	9.24E-02
175	0.00	0.000	0.000	0.0190	1.7749	0.9197	9.15E-02
176	0.00	0.000	0.000	0.0190	1.5124	0.7836	9.08E-02
177	0.00	0.000	0.000	0.0190	1.2853	0.6660	9.01E-02
178	0.00	0.000	0.000	0.0190	1.0890	0.5643	8.95E-02
179	0.00	0.000	0.000	0.0190	0.9192	0.4763	8.90E-02
180	0.00	0.000	0.000	0.0190	0.7724	0.4002	8.86E-02
181	0.00	0.000	0.000	0.0190	0.6455	0.3345	8.83E-02
182	0.00	0.000	0.000	0.0190	0.5357	0.2776	8.79E-02
183	0.00	0.000	0.000	0.0190	0.4408	0.2284	8.77E-02
184	0.00	0.000	0.000	0.0190	0.3588	0.1859	8.74E-02
185	0.00	0.000	0.000	0.0190	0.2878	0.1491	8.72E-02
186	0.00	0.000	0.000	0.0190	0.2264	0.1173	8.71E-02
187	0.00	0.000	0.000	0.0190	0.1734	0.0898	8.69E-02
188	0.00	0.000	0.000	0.0190	0.1275	0.0660	8.68E-02
189	0.00	0.000	0.000	0.0190	0.0878	0.0455	8.67E-02
190	0.00	0.000	0.000	0.0190	0.0535	0.0277	8.66E-02
191	0.00	0.000	0.000	0.0190	0.0238	0.0123	8.65E-02
192	0.00	0.000	0.000	0.0190	0.0021	0.0010	2.53E-02
193	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.30	0.000	0.083	0.0197	0.0000	0.0000	0.00E+00
217	0.50	0.000	0.083	0.0211	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.147	0.0206	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.187	0.0200	0.0000	0.0000	0.00E+00
220	0.20	0.000	0.280	0.0197	0.0000	0.0000	6.51E-08
221	0.00	0.000	0.051	0.0196	0.0000	0.0000	5.43E-07
222	0.00	0.000	0.083	0.0193	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.058	0.0191	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.018	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	3.43E-07
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.80	0.000	0.074	0.0214	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.098	0.0211	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.122	0.0207	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.151	0.0202	0.0000	0.0000	0.00E+00
287	1.80	0.000	0.195	0.0255	0.0000	0.0000	0.00E+00
288	6.80	0.000	0.225	0.0475	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.209	0.0468	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.221	0.0460	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.220	0.0453	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.227	0.0445	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.226	0.0438	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.225	0.0430	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.224	0.0423	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.223	0.0415	0.0000	0.0000	0.00E+00
297	19.40	0.000	0.282	0.0941	0.0000	0.0000	0.00E+00
298	17.90	0.000	0.281	0.0874	0.0302	0.0157	2.17E-02
299	2.80	0.000	0.280	0.0621	0.0963	0.0499	8.67E-02
300	0.00	0.000	0.220	0.0571	0.3282	0.1701	8.73E-02
301	1.00	0.000	0.278	0.0553	1.6104	0.8344	9.10E-02
302	0.00	0.000	0.218	0.0535	2.8939	1.4995	9.47E-02
303	1.70	0.000	0.277	0.0572	4.0886	2.1186	9.82E-02
304	14.40	0.000	0.277	0.0813	5.0765	2.6304	1.01E-01
305	0.00	0.000	6.285	0.0444	5.1482	2.6676	1.01E-01
306	0.00	0.000	0.216	0.0433	4.9035	2.5408	1.01E-01
307	0.00	0.000	0.215	0.0426	5.6113	2.9076	1.03E-01
308	0.30	0.000	0.274	0.0426	6.3712	3.3013	1.05E-01
309	0.00	0.000	0.213	0.0419	6.9298	3.5907	1.06E-01
310	0.00	0.000	0.209	0.0400	6.4426	3.3383	1.05E-01
311	5.00	0.000	0.273	0.0558	5.5922	2.8977	1.03E-01

312	48.80	0.000	6.105	0.1049	4.8132	2.4940	1.00E-01
313	1.00	0.000	6.458	0.0446	4.1444	2.1475	9.83E-02
314	17.20	0.000	5.247	0.0835	4.6543	2.4117	9.98E-02
315	28.00	0.000	4.540	0.0930	5.8726	3.0429	1.03E-01
316	15.40	0.000	5.070	0.0791	5.4941	2.8468	1.02E-01
317	38.00	0.000	5.415	0.0934	4.7284	2.4501	1.00E-01
318	0.00	0.000	3.944	0.0498	4.0825	2.1154	9.82E-02
319	21.00	0.000	3.990	0.0939	5.0162	2.5992	1.01E-01
320	7.20	0.000	4.523	0.0641	7.1526	3.7062	1.07E-01
321	3.80	0.000	4.676	0.0585	7.4878	3.8799	1.08E-01
322	3.20	0.000	5.774	0.0495	9.3756	4.8581	1.13E-01
323	0.20	0.000	4.819	0.0340	11.1071	5.7552	1.18E-01
324	20.40	0.000	6.318	0.0809	12.3275	6.3876	1.22E-01
325	0.00	0.000	5.909	0.0433	13.1666	6.8224	1.24E-01
326	0.00	0.000	6.278	0.0224	12.7495	6.6063	1.23E-01
327	6.40	0.000	3.144	0.0324	12.9814	6.7264	1.24E-01
328	13.40	0.000	4.114	0.0633	13.2823	6.8824	1.25E-01
329	0.00	0.000	4.114	0.0496	13.4179	6.9526	1.25E-01
330	88.00	0.000	4.891	0.1155	13.3584	6.9218	1.25E-01
331	66.00	0.000	3.330	0.0964	11.9239	6.1785	1.21E-01
332	27.30	0.000	5.505	0.0909	10.2883	5.3310	1.16E-01
333	0.00	0.000	5.835	0.0461	10.0904	5.2284	1.15E-01
334	0.00	0.000	5.690	0.0271	13.1787	6.8287	1.24E-01
335	0.00	0.000	1.863	0.0190	17.2887	8.9583	1.36E-01
336	0.00	0.000	0.000	0.0190	19.7799	10.2491	1.43E-01
337	0.00	0.000	0.000	0.0190	21.2996	11.0366	1.48E-01
338	0.10	0.000	0.100	0.0190	22.0712	11.4364	1.50E-01
339	0.00	0.000	0.000	0.0190	22.3087	11.5594	1.51E-01
340	0.00	0.000	0.000	0.0190	22.1670	11.4860	1.50E-01

341	0.00	0.000	0.000	0.0190	21.7593	11.2748	1.49E-01
342	0.00	0.000	0.000	0.0190	21.1688	10.9688	1.47E-01
343	0.00	0.000	0.000	0.0190	20.4572	10.6001	1.45E-01
344	0.00	0.000	0.000	0.0190	19.6698	10.1921	1.43E-01
345	0.60	0.000	0.152	0.0205	18.8403	9.7623	1.41E-01
346	1.40	0.000	0.457	0.0236	17.9935	9.3235	1.38E-01
347	0.00	0.000	0.366	0.0224	17.1475	8.8851	1.36E-01
348	0.60	0.000	0.623	0.0223	16.3151	8.4538	1.33E-01
349	6.50	0.000	0.529	0.0422	15.3062	7.9311	1.30E-01
350	4.40	0.000	0.708	0.0546	13.3171	6.9004	1.25E-01
351	6.80	0.000	0.766	0.0649	11.4930	5.9552	1.19E-01
352	48.80	0.000	0.762	0.1016	10.0832	5.2247	1.15E-01
353	16.00	0.000	4.547	0.0804	8.8157	4.5679	1.12E-01
354	0.40	0.000	4.748	0.0475	8.0478	4.1700	1.10E-01
355	0.00	0.000	6.139	0.0270	7.6800	3.9794	1.09E-01
356	1.10	0.000	2.110	0.0212	8.8425	4.5818	1.12E-01
357	3.00	0.000	2.349	0.0234	9.7498	5.0519	1.14E-01
358	1.50	0.000	1.936	0.0219	10.4706	5.4254	1.17E-01
359	0.80	0.000	1.224	0.0205	10.9375	5.6674	1.18E-01
360	0.00	0.000	0.302	0.0195	11.2053	5.8061	1.19E-01
361	0.00	0.000	0.108	0.0191	11.3175	5.8643	1.19E-01
362	0.00	0.000	0.031	0.0190	11.3094	5.8600	1.19E-01
363	4.90	0.000	0.755	0.0328	11.2006	5.8037	1.19E-01
364	2.40	0.000	0.991	0.0375	10.0848	5.2255	1.15E-01
365	25.50	0.000	1.169	0.0886	8.6980	4.5069	1.11E-01

* = Frozen (air or soil)

Annual Totals for Year 5			
	mm*	cubic meters	percent
Precipitation	2,610.50	26,105.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	450.945	4,509.4	17.27
Drainage Collected from Layer 2	2,111.5698	21,115.7	80.89
Percolation/Leakage through Layer 3	68.371724	683.7	2.62
Average Head on Top of Layer 3	44.1940 (cm)	---	---
Change in Water Storage	-20.3865	-203.9	-0.78
Soil Water at Start of Year	930.6925	9,306.9	35.65
Soil Water at End of Year	910.3060	9,103.1	34.87
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 6

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			4.80	0.000	4.569	0.0538	7.4988	3.8856	1.08E-01	
2			0.90	0.000	5.221	0.0393	6.7229	3.4835	1.06E-01	
3			0.20	0.000	5.551	0.0215	7.0901	3.6738	1.07E-01	
4			0.00	0.000	0.694	0.0192	7.6569	3.9675	1.08E-01	
5			0.00	0.000	0.043	0.0190	8.0719	4.1825	1.10E-01	
6	*Note: head c		0.00	0.000	0.011	0.0190	7.4908	3.8814	1.08E-01	
7			0.00	0.000	0.003	0.0190	6.4549	3.3447	1.05E-01	
8			0.10	0.000	0.101	0.0190	5.5592	2.8806	1.02E-01	
9			0.00	0.000	0.000	0.0190	4.7847	2.4792	1.00E-01	
10			0.00	0.000	0.000	0.0190	4.1149	2.1322	9.82E-02	
11			0.00	0.000	0.000	0.0190	3.5358	1.8321	9.66E-02	
12			0.00	0.000	0.000	0.0190	3.0350	1.5726	9.51E-02	
13			0.30	0.000	0.125	0.0196	2.6020	1.3482	9.39E-02	
14			0.00	0.000	0.074	0.0193	2.2275	1.1542	9.28E-02	
15			0.00	0.000	0.064	0.0191	1.9037	0.9864	9.19E-02	
16			0.00	0.000	0.028	0.0190	1.6237	0.8414	9.11E-02	
17			0.00	0.000	0.007	0.0190	1.3816	0.7159	9.04E-02	
18			0.20	0.000	0.109	0.0193	1.1723	0.6074	8.98E-02	
19			0.00	0.000	0.050	0.0191	0.9912	0.5136	8.93E-02	
20			18.40	0.000	0.597	0.0785	0.8347	0.4325	8.88E-02	
21			0.00	0.000	0.627	0.0469	0.6993	0.3624	8.84E-02	

22	0.00	0.000	0.627	0.0386	0.6390	0.3311	8.82E-02
23	0.00	0.000	0.609	0.0366	1.3647	0.7071	9.03E-02
24	1.20	0.000	0.640	0.0384	2.5806	1.3372	9.38E-02
25	3.80	0.000	0.624	0.0490	2.6767	1.3869	9.41E-02
26	0.00	0.000	0.563	0.0471	2.2921	1.1877	9.30E-02
27	0.00	0.000	0.550	0.0453	1.9596	1.0154	9.20E-02
28	0.00	0.000	0.537	0.0435	1.6720	0.8664	9.12E-02
29	0.00	0.000	0.526	0.0418	1.4234	0.7375	9.05E-02
30	0.00	0.000	0.508	0.0401	1.2084	0.6261	8.99E-02
31	0.70	0.000	0.547	0.0406	1.0225	0.5298	8.93E-02
32	1.00	0.000	0.537	0.0421	0.8617	0.4465	8.89E-02
33	0.00	0.000	0.486	0.0405	0.7227	0.3745	8.85E-02
34	69.20	0.000	0.518	0.1096	0.6906	0.3579	8.84E-02
35	4.20	0.000	3.864	0.0591	0.6785	0.3516	8.84E-02
36	49.00	0.000	5.924	0.1019	1.7433	0.9033	9.14E-02
37	0.40	0.000	5.102	0.0436	2.5788	1.3362	9.38E-02
38	1.80	0.000	5.932	0.0298	4.1233	2.1365	9.83E-02
39	0.00	0.000	2.705	0.0196	6.7417	3.4933	1.06E-01
40	0.00	0.000	0.136	0.0192	8.6737	4.4943	1.11E-01
41	0.00	0.000	0.034	0.0190	10.1010	5.2339	1.15E-01
42	0.00	0.000	0.009	0.0190	11.0958	5.7494	1.18E-01
43	0.00	0.000	0.002	0.0190	11.7537	6.0903	1.20E-01
44	0.00	0.000	0.001	0.0190	12.1496	6.2954	1.21E-01
45	12.50	0.000	1.126	0.0569	12.3426	6.3954	1.22E-01
46	4.80	0.000	5.320	0.0552	12.3793	6.4145	1.22E-01
47	26.00	0.000	4.263	0.0897	12.2967	6.3717	1.22E-01
48	76.60	0.000	3.135	0.1009	11.6643	6.0440	1.20E-01
49	8.80	0.000	3.437	0.0670	10.0936	5.2301	1.15E-01
50	0.40	0.000	5.600	0.0455	9.4349	4.8888	1.14E-01

51	0.00	0.000	6.107	0.0251	11.1411	5.7729	1.18E-01
52	0.00	0.000	1.840	0.0190	12.8798	6.6738	1.23E-01
53	0.00	0.000	0.000	0.0190	14.0375	7.2737	1.27E-01
54	0.50	0.000	0.406	0.0193	14.7494	7.6425	1.29E-01
55	4.40	0.000	1.858	0.0278	15.1239	7.8366	1.30E-01
56	19.80	0.000	3.172	0.0832	15.2441	7.8989	1.30E-01
57	23.00	0.000	3.777	0.0878	15.2121	7.8823	1.30E-01
58	3.20	0.000	5.034	0.0530	14.2573	7.3875	1.27E-01
59	6.00	0.000	5.478	0.0540	13.0826	6.7788	1.24E-01
60	0.00	0.000	6.617	0.0315	13.1645	6.8213	1.24E-01
61	0.00	0.000	3.716	0.0192	13.4406	6.9644	1.25E-01
62	0.00	0.000	0.034	0.0190	13.5423	7.0170	1.25E-01
63	33.60	0.000	5.247	0.0980	13.4897	6.9898	1.25E-01
64	17.20	0.000	4.899	0.0789	13.1304	6.8036	1.24E-01
65	0.00	0.000	6.186	0.0440	12.1299	6.2852	1.21E-01
66	0.00	0.000	6.377	0.0228	11.3098	5.8603	1.19E-01
67	0.00	0.000	0.847	0.0190	11.5879	6.0044	1.20E-01
68	0.00	0.000	0.000	0.0190	11.7763	6.1020	1.20E-01
69	0.00	0.000	0.000	0.0190	11.8616	6.1462	1.21E-01
70	0.00	0.000	0.000	0.0190	11.8248	6.1271	1.20E-01
71	14.80	0.000	1.456	0.0635	11.6944	6.0596	1.20E-01
72	0.00	0.000	6.356	0.0423	11.1180	5.7609	1.18E-01
73	0.20	0.000	1.657	0.0374	9.6072	4.9781	1.14E-01
74	0.00	0.000	1.354	0.0329	8.2850	4.2930	1.10E-01
75	1.30	0.000	1.241	0.0331	7.1417	3.7005	1.07E-01
76	2.00	0.000	1.126	0.0360	6.1531	3.1883	1.04E-01
77	0.00	0.000	1.000	0.0327	5.2982	2.7453	1.02E-01
78	0.00	0.000	0.931	0.0296	4.5590	2.3623	9.95E-02
79	0.00	0.000	0.836	0.0268	3.9198	2.0311	9.77E-02

80	0.00	0.000	0.751	0.0243	3.3670	1.7447	9.61E-02
81	0.00	0.000	0.724	0.0219	2.8891	1.4970	9.47E-02
82	0.00	0.000	0.743	0.0194	2.4758	1.2828	9.35E-02
83	0.00	0.000	0.123	0.0190	2.1184	1.0977	9.25E-02
84	7.40	0.000	0.330	0.0426	1.8094	0.9375	9.16E-02
85	0.10	0.000	0.587	0.0409	1.5422	0.7991	9.08E-02
86	0.00	0.000	0.627	0.0389	1.3111	0.6793	9.02E-02
87	10.50	0.000	0.648	0.0717	1.1113	0.5758	8.96E-02
88	17.00	0.000	5.825	0.0781	0.9960	0.5161	8.93E-02
89	2.80	0.000	5.179	0.0541	0.8788	0.4553	8.89E-02
90	0.10	0.000	4.550	0.0380	1.2313	0.6380	8.99E-02
91	1.00	0.000	4.395	0.0266	2.3190	1.2016	9.31E-02
92	0.00	0.000	2.192	0.0193	3.4219	1.7731	9.63E-02
93	0.00	0.000	0.087	0.0190	3.3861	1.7545	9.62E-02
94	0.00	0.000	0.010	0.0190	2.9056	1.5055	9.48E-02
95	0.00	0.000	0.002	0.0190	2.4900	1.2902	9.36E-02
96	0.20	0.000	0.157	0.0191	2.1307	1.1041	9.25E-02
97	0.00	0.000	0.024	0.0191	1.8200	0.9431	9.16E-02
98	0.00	0.000	0.014	0.0190	1.5514	0.8039	9.09E-02
99	0.00	0.000	0.004	0.0190	1.3190	0.6835	9.02E-02
100	0.00	0.000	0.001	0.0190	1.1182	0.5794	8.96E-02
101	0.00	0.000	0.000	0.0190	0.9445	0.4894	8.91E-02
102	0.90	0.000	0.111	0.0216	0.7942	0.4115	8.87E-02
103	0.20	0.000	0.370	0.0211	0.6644	0.3442	8.83E-02
104	0.00	0.000	0.433	0.0196	0.5520	0.2860	8.80E-02
105	0.00	0.000	0.137	0.0192	0.4549	0.2357	8.77E-02
106	0.00	0.000	0.035	0.0190	0.3709	0.1922	8.75E-02
107	0.00	0.000	0.010	0.0190	0.2983	0.1546	8.73E-02
108	0.00	0.000	0.003	0.0190	0.2355	0.1220	8.71E-02

109	0.00	0.000	0.000	0.0190	0.1812	0.0939	8.69E-02
110	0.00	0.000	0.000	0.0190	0.1343	0.0696	8.68E-02
111	0.00	0.000	0.000	0.0190	0.0937	0.0485	8.67E-02
112	0.10	0.000	0.087	0.0190	0.0586	0.0304	8.66E-02
113	0.00	0.000	0.007	0.0190	0.0282	0.0146	8.65E-02
114	0.00	0.000	0.004	0.0190	0.0040	0.0020	3.90E-02
115	13.40	0.000	0.404	0.0623	0.0000	0.0000	0.00E+00
116	0.60	0.000	0.522	0.0577	0.0321	0.0166	2.17E-02
117	3.00	0.000	0.558	0.0577	0.3713	0.1924	8.75E-02
118	0.70	0.000	0.548	0.0574	0.5694	0.2951	8.80E-02
119	0.00	0.000	0.495	0.0543	0.9325	0.4832	8.91E-02
120	0.00	0.000	0.486	0.0525	0.8631	0.4472	8.89E-02
121	0.00	0.000	0.477	0.0509	0.7285	0.3775	8.85E-02
122	0.00	0.000	0.469	0.0493	0.6075	0.3148	8.81E-02
123	0.00	0.000	0.461	0.0478	0.5029	0.2606	8.78E-02
124	0.00	0.000	0.454	0.0463	0.4124	0.2137	8.76E-02
125	0.00	0.000	0.447	0.0448	0.3342	0.1732	8.74E-02
126	0.00	0.000	0.440	0.0433	0.2666	0.1381	8.72E-02
127	0.00	0.000	0.434	0.0419	0.2081	0.1078	8.70E-02
128	0.00	0.000	0.428	0.0404	0.1575	0.0816	8.69E-02
129	0.00	0.000	0.363	0.0392	0.1137	0.0589	8.67E-02
130	0.00	0.000	0.416	0.0378	0.0759	0.0393	8.66E-02
131	0.00	0.000	0.411	0.0365	0.0432	0.0224	8.65E-02
132	0.00	0.000	0.405	0.0351	0.0149	0.0076	8.33E-02
133	0.00	0.000	0.400	0.0338	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.396	0.0325	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.391	0.0312	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.386	0.0299	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.382	0.0286	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.378	0.0273	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.374	0.0261	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.370	0.0249	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.366	0.0236	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.362	0.0224	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.359	0.0212	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.355	0.0201	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.316	0.0190	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
155	0.20	0.000	0.081	0.0194	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.027	0.0193	0.0000	0.0000	0.00E+00
157	0.30	0.000	0.111	0.0199	0.0000	0.0000	0.00E+00
158	1.70	0.000	0.193	0.0250	0.0000	0.0000	0.00E+00
159	11.80	0.000	0.267	0.0634	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.300	0.0596	0.0436	0.0226	2.17E-02
161	0.00	0.000	0.308	0.0546	0.3471	0.1799	8.74E-02
162	0.00	0.000	0.306	0.0514	0.5078	0.2631	8.79E-02
163	0.00	0.000	0.304	0.0487	0.5711	0.2959	8.80E-02
164	0.00	0.000	0.301	0.0465	0.5855	0.3034	8.81E-02
165	0.00	0.000	0.299	0.0445	0.5713	0.2960	8.80E-02
166	0.00	0.000	0.297	0.0428	0.5410	0.2803	8.80E-02

167	0.00	0.000	0.257	0.0416	0.4990	0.2586	8.78E-02
168	0.00	0.000	0.293	0.0406	0.4183	0.2168	8.76E-02
169	0.00	0.000	0.291	0.0396	0.3393	0.1758	8.74E-02
170	0.00	0.000	0.289	0.0386	0.2710	0.1404	8.72E-02
171	0.00	0.000	0.288	0.0377	0.2119	0.1098	8.70E-02
172	0.00	0.000	0.286	0.0367	0.1608	0.0833	8.69E-02
173	0.00	0.000	0.284	0.0358	0.1166	0.0604	8.67E-02
174	0.00	0.000	0.282	0.0348	0.0784	0.0406	8.66E-02
175	0.00	0.000	0.281	0.0339	0.0454	0.0235	8.65E-02
176	0.00	0.000	0.279	0.0330	0.0168	0.0087	8.64E-02
177	0.00	0.000	0.277	0.0321	0.0002	0.0000	2.86E-03
178	0.00	0.000	0.276	0.0311	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.274	0.0302	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.272	0.0293	0.0000	0.0000	0.00E+00
181	0.80	0.000	0.333	0.0309	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.269	0.0300	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.268	0.0291	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.266	0.0282	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.265	0.0273	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.224	0.0266	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.252	0.0257	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.261	0.0249	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.259	0.0240	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.258	0.0231	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.257	0.0223	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.255	0.0214	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.254	0.0206	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.253	0.0197	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.219	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	0.80	0.000	0.090	0.0214	0.0000	0.0000	0.00E+00
207	7.90	0.000	0.230	0.0469	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.216	0.0462	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.229	0.0455	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.228	0.0447	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.234	0.0439	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.233	0.0431	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.232	0.0424	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.231	0.0416	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.230	0.0408	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.229	0.0401	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.228	0.0393	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.227	0.0385	0.0001	0.0000	1.76E-03
219	0.00	0.000	0.227	0.0378	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.226	0.0370	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.225	0.0363	0.0004	0.0000	5.35E-03
222	0.00	0.000	0.224	0.0355	0.0002	0.0000	3.19E-03
223	0.00	0.000	0.223	0.0347	0.0002	0.0000	3.33E-03
224	0.00	0.000	0.222	0.0340	0.0005	0.0000	7.44E-03

225	0.00	0.000	0.221	0.0332	0.0002	0.0000	3.37E-03
226	0.00	0.000	0.221	0.0325	0.0001	0.0000	1.76E-03
227	0.00	0.000	0.220	0.0318	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.219	0.0310	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.218	0.0303	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.217	0.0296	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.217	0.0289	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.216	0.0281	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.215	0.0274	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.214	0.0267	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.213	0.0260	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.213	0.0253	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.212	0.0246	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.211	0.0239	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.211	0.0232	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.210	0.0225	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.209	0.0218	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.208	0.0211	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.208	0.0204	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.207	0.0197	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.206	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	1.00	0.000	0.107	0.0220	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.081	0.0217	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.102	0.0214	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.130	0.0209	0.0000	0.0000	0.00E+00
267	0.60	0.000	0.221	0.0222	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.131	0.0218	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.096	0.0214	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.131	0.0210	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.129	0.0206	0.0000	0.0000	0.00E+00
272	1.00	0.000	0.222	0.0232	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.117	0.0228	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.132	0.0223	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.128	0.0219	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.127	0.0215	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.126	0.0211	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.126	0.0206	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.125	0.0202	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.125	0.0198	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.102	0.0195	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.116	0.0191	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.021	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	1.30	0.000	0.115	0.0230	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.076	0.0227	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.122	0.0223	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.122	0.0219	0.0000	0.0000	0.00E+00
291	7.00	0.000	0.222	0.0445	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.148	0.0440	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.164	0.0434	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.174	0.0429	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.173	0.0423	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.177	0.0417	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.178	0.0411	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.178	0.0405	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.177	0.0399	0.0000	0.0000	0.00E+00
300	8.20	0.000	0.282	0.0663	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.176	0.0583	0.1381	0.0716	6.52E-02
302	0.00	0.000	0.176	0.0543	0.6520	0.3378	8.83E-02
303	0.00	0.000	0.176	0.0525	0.7260	0.3762	8.85E-02
304	0.00	0.000	0.175	0.0512	0.6947	0.3600	8.84E-02
305	0.00	0.000	0.175	0.0506	0.5996	0.3107	8.81E-02
306	0.00	0.000	0.174	0.0501	0.4961	0.2570	8.78E-02
307	0.00	0.000	0.174	0.0495	0.4065	0.2106	8.76E-02
308	0.00	0.000	0.174	0.0489	0.3291	0.1705	8.73E-02
309	0.00	0.000	0.173	0.0483	0.2621	0.1358	8.72E-02
310	0.00	0.000	0.173	0.0478	0.2042	0.1058	8.70E-02
311	0.00	0.000	0.172	0.0472	0.1542	0.0799	8.68E-02

312	0.00	0.000	0.172	0.0466	0.1109	0.0575	8.67E-02
313	0.00	0.000	0.172	0.0460	0.0734	0.0381	8.66E-02
314	0.00	0.000	0.171	0.0455	0.0411	0.0213	8.65E-02
315	0.40	0.000	0.282	0.0459	0.0131	0.0066	7.72E-02
316	0.00	0.000	0.170	0.0448	0.0054	0.0028	2.16E-02
317	0.00	0.000	0.170	0.0434	0.0483	0.0251	8.65E-02
318	0.00	0.000	0.170	0.0421	0.0817	0.0423	8.66E-02
319	0.50	0.000	0.284	0.0428	0.0810	0.0420	8.66E-02
320	1.40	0.000	0.286	0.0466	0.0476	0.0247	8.65E-02
321	0.00	0.000	0.169	0.0460	0.0188	0.0097	8.65E-02
322	0.00	0.000	0.168	0.0453	0.0006	0.0001	9.31E-03
323	0.00	0.000	0.168	0.0442	0.0193	0.0100	8.65E-02
324	2.20	0.000	0.287	0.0505	0.0207	0.0107	8.65E-02
325	0.00	0.000	0.167	0.0499	0.0039	0.0019	3.84E-02
326	0.00	0.000	0.167	0.0494	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.166	0.0486	0.0047	0.0024	4.32E-02
328	0.00	0.000	0.166	0.0478	0.0071	0.0037	6.47E-02
329	0.00	0.000	0.166	0.0471	0.0036	0.0018	6.22E-02
330	0.00	0.000	0.165	0.0461	0.0030	0.0016	8.64E-02
331	0.00	0.000	0.165	0.0449	0.0216	0.0112	8.65E-02
332	1.60	0.000	0.288	0.0493	0.0266	0.0138	8.65E-02
333	21.00	0.000	0.288	0.0821	0.0213	0.0108	5.58E-02
334	3.00	0.000	5.650	0.0498	0.0723	0.0375	8.66E-02
335	0.00	0.000	6.172	0.0272	0.3332	0.1727	8.74E-02
336	0.00	0.000	2.323	0.0194	1.5266	0.7910	9.08E-02
337	0.00	0.000	0.096	0.0191	2.7501	1.4250	9.43E-02
338	0.00	0.000	0.024	0.0190	3.7647	1.9507	9.72E-02
339	0.00	0.000	0.006	0.0190	3.5397	1.8341	9.66E-02
340	0.00	0.000	0.002	0.0190	3.0384	1.5744	9.51E-02

341	0.00	0.000	0.000	0.0190	2.6049	1.3497	9.39E-02
342	0.00	0.000	0.000	0.0190	2.2300	1.1555	9.28E-02
343	0.00	0.000	0.000	0.0190	1.9059	0.9876	9.19E-02
344	0.10	0.000	0.100	0.0190	1.6256	0.8423	9.11E-02
345	0.00	0.000	0.000	0.0190	1.3833	0.7168	9.04E-02
346	0.00	0.000	0.000	0.0190	1.1737	0.6082	8.98E-02
347	18.80	0.000	0.745	0.0792	0.9925	0.5143	8.93E-02
348	0.20	0.000	0.799	0.0473	0.8358	0.4331	8.88E-02
349	0.00	0.000	0.694	0.0392	0.7253	0.3758	8.85E-02
350	0.00	0.000	0.669	0.0369	1.4415	0.7469	9.05E-02
351	0.00	0.000	0.647	0.0348	2.6555	1.3760	9.40E-02
352	0.00	0.000	0.627	0.0327	2.7633	1.4318	9.44E-02
353	0.90	0.000	0.738	0.0332	2.3670	1.2265	9.32E-02
354	5.20	0.000	0.722	0.0481	2.0244	1.0489	9.22E-02
355	0.00	0.000	0.577	0.0462	1.7281	0.8954	9.14E-02
356	0.00	0.000	0.563	0.0443	1.4718	0.7626	9.06E-02
357	0.00	0.000	0.550	0.0425	1.2503	0.6478	9.00E-02
358	0.00	0.000	0.537	0.0407	1.0587	0.5486	8.94E-02
359	0.00	0.000	0.526	0.0390	0.8930	0.4627	8.90E-02
360	0.00	0.000	0.509	0.0373	0.7498	0.3885	8.86E-02
361	0.00	0.000	0.505	0.0356	0.6259	0.3243	8.82E-02
362	0.00	0.000	0.495	0.0339	0.5188	0.2688	8.79E-02
363	0.00	0.000	0.486	0.0323	0.4262	0.2208	8.76E-02
364	0.00	0.000	0.477	0.0307	0.3461	0.1793	8.74E-02
365	0.00	0.000	0.469	0.0292	0.2768	0.1434	8.72E-02

* = Frozen (air or soil)

Annual Totals for Year 6			
	mm*	cubic meters	percent
Precipitation	567.20	5,672.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	246.749	2,467.5	43.50
Drainage Collected from Layer 2	355.5393	3,555.4	62.68
Percolation/Leakage through Layer 3	19.800962	198.0	3.49
Average Head on Top of Layer 3	1.8799 (cm)	---	---
Change in Water Storage	-54.8890	-548.9	-9.68
Soil Water at Start of Year	910.3060	9,103.1	160.49
Soil Water at End of Year	855.4170	8,554.2	150.81
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 7

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.461	0.0276		0.2169	0.1124	8.70E-02
2			0.00	0.000	0.404	0.0247		0.2605	0.1350	8.71E-02
3			0.00	0.000	0.447	0.0232		0.2323	0.1204	8.71E-02
4			0.00	0.000	0.440	0.0217		0.1785	0.0925	8.69E-02
5			8.20	0.000	0.512	0.0473		0.1319	0.0683	8.68E-02
6	*Note: head c		20.20	0.000	0.504	0.0922		0.1289	0.0668	8.68E-02
7			1.20	0.000	6.425	0.0432		0.1929	0.1000	8.70E-02
8			0.00	0.000	6.104	0.0228		0.4116	0.2133	8.76E-02
9			0.00	0.000	0.852	0.0191		1.5958	0.8269	9.10E-02
10			0.00	0.000	0.028	0.0190		2.7952	1.4483	9.44E-02
11			0.00	0.000	0.007	0.0190		3.4204	1.7723	9.62E-02
12			0.00	0.000	0.002	0.0190		2.9504	1.5288	9.49E-02
13			3.40	0.000	0.748	0.0278		2.5288	1.3103	9.37E-02
14			49.00	0.000	1.436	0.1019		2.2091	1.1447	9.28E-02
15			0.40	0.000	6.072	0.0366		2.0131	1.0431	9.22E-02
16			0.00	0.000	5.270	0.0190		2.3252	1.2048	9.31E-02
17			0.00	0.000	0.000	0.0190		3.8369	1.9881	9.74E-02
18			0.00	0.000	0.000	0.0190		5.1169	2.6514	1.01E-01
19			6.20	0.000	2.129	0.0326		6.0985	3.1600	1.04E-01
20			1.40	0.000	4.100	0.0236		6.8367	3.5425	1.06E-01
21			0.10	0.000	1.172	0.0200		7.3771	3.8225	1.08E-01

22	0.00	0.000	0.219	0.0193	7.3373	3.8019	1.08E-01
23	0.00	0.000	0.060	0.0191	6.3222	3.2759	1.05E-01
24	1.20	0.000	0.221	0.0223	5.4444	2.8211	1.02E-01
25	0.00	0.000	0.573	0.0204	4.6854	2.4278	9.99E-02
26	29.00	0.000	1.165	0.0970	4.0291	2.0877	9.80E-02
27	0.00	0.000	5.912	0.0443	3.4616	1.7937	9.64E-02
28	0.00	0.000	6.533	0.0207	3.1789	1.6472	9.56E-02
29	0.00	0.000	0.387	0.0190	3.9094	2.0257	9.77E-02
30	0.00	0.000	0.000	0.0190	4.8243	2.4997	1.00E-01
31	0.00	0.000	0.000	0.0190	5.2479	2.7193	1.02E-01
32	0.00	0.000	0.000	0.0190	4.5655	2.3657	9.95E-02
33	0.00	0.000	0.000	0.0190	3.9254	2.0340	9.77E-02
34	0.00	0.000	0.000	0.0190	3.3719	1.7472	9.61E-02
35	0.10	0.000	0.100	0.0190	2.8933	1.4992	9.47E-02
36	1.70	0.000	0.378	0.0234	2.4794	1.2847	9.35E-02
37	0.00	0.000	0.366	0.0222	2.1216	1.0993	9.25E-02
38	0.00	0.000	0.556	0.0203	1.8121	0.9390	9.16E-02
39	0.00	0.000	0.311	0.0193	1.5445	0.8003	9.08E-02
40	0.00	0.000	0.067	0.0191	1.3131	0.6804	9.02E-02
41	0.00	0.000	0.017	0.0190	1.1130	0.5767	8.96E-02
42	0.00	0.000	0.004	0.0190	0.9400	0.4871	8.91E-02
43	0.00	0.000	0.001	0.0190	0.7904	0.4096	8.87E-02
44	16.00	0.000	0.501	0.0707	0.6611	0.3425	8.83E-02
45	157.40	0.000	0.694	0.1326	0.6791	0.3519	8.84E-02
46	190.70	0.000	2.534	0.1449	0.6050	0.3135	8.81E-02
47	130.30	0.000	3.349	0.1198	0.8297	0.4299	8.88E-02
48	47.40	0.000	3.828	0.0952	12.9032	6.6859	1.24E-01
49	18.40	0.000	6.317	0.0814	335.0290	22.6428	1.05E+00
50	4.20	0.000	5.757	0.0527	425.5878	24.7701	1.31E+00

51	9.00	0.000	7.165	0.0584	405.0268	24.1066	1.25E+00
52	0.00	0.000	6.270	0.0375	378.9977	23.2743	1.18E+00
53	0.00	0.000	4.841	0.0197	353.7558	22.4015	1.11E+00
54	0.00	0.000	0.158	0.0192	329.7346	21.6430	1.04E+00
55	0.00	0.000	0.050	0.0190	306.1714	20.9348	9.68E-01
56	0.00	0.000	0.002	0.0190	283.4107	20.2605	9.03E-01
57	0.00	0.000	0.001	0.0190	261.4146	19.6198	8.39E-01
58	5.20	0.000	0.939	0.0332	240.1454	19.0129	7.78E-01
59	4.80	0.000	1.145	0.0454	219.5653	18.4402	7.19E-01
60	2.70	0.000	1.302	0.0501	199.6358	17.8898	6.61E-01
61	0.00	0.000	1.165	0.0462	121.6119	16.5124	4.37E-01
62	9.20	0.000	1.127	0.0668	59.6503	15.5960	2.58E-01
63	57.60	0.000	6.476	0.1037	54.0025	15.5862	2.42E-01
64	2.20	0.000	5.582	0.0456	38.9908	15.5603	1.99E-01
65	0.00	0.000	6.645	0.0234	37.8803	15.5584	1.95E-01
66	0.00	0.000	1.003	0.0192	39.7735	15.5617	2.01E-01
67	0.00	0.000	0.035	0.0190	39.2080	15.5607	1.99E-01
68	0.00	0.000	0.009	0.0190	36.6524	15.5563	1.92E-01
69	0.00	0.000	0.002	0.0190	30.6855	15.3491	1.75E-01
70	0.20	0.000	0.201	0.0190	28.4063	14.7190	1.68E-01
71	0.00	0.000	0.000	0.0190	27.0769	14.0301	1.64E-01
72	0.00	0.000	0.000	0.0190	25.7017	13.3176	1.60E-01
73	0.00	0.000	0.000	0.0190	24.3211	12.6022	1.56E-01
74	0.00	0.000	0.000	0.0190	22.9630	11.8985	1.53E-01
75	0.00	0.000	0.000	0.0190	21.6463	11.2162	1.49E-01
76	0.00	0.000	0.000	0.0190	20.3833	10.5618	1.45E-01
77	0.00	0.000	0.000	0.0190	19.1817	9.9392	1.42E-01
78	0.00	0.000	0.000	0.0190	18.0521	9.3539	1.38E-01
79	0.00	0.000	0.000	0.0190	16.4598	8.5288	1.34E-01

80	0.00	0.000	0.000	0.0190	14.2105	7.3633	1.27E-01
81	0.00	0.000	0.000	0.0190	12.2656	6.3555	1.22E-01
82	2.20	0.000	0.357	0.0251	10.5837	5.4841	1.17E-01
83	0.00	0.000	0.290	0.0242	9.1294	4.7305	1.13E-01
84	0.00	0.000	0.450	0.0227	7.8719	4.0789	1.09E-01
85	0.00	0.000	0.435	0.0212	6.7845	3.5154	1.06E-01
86	0.00	0.000	0.342	0.0201	5.8442	3.0282	1.03E-01
87	0.00	0.000	0.270	0.0192	5.0311	2.6069	1.01E-01
88	0.00	0.000	0.043	0.0190	4.3280	2.2426	9.89E-02
89	0.00	0.000	0.010	0.0190	3.7200	1.9276	9.71E-02
90	0.00	0.000	0.003	0.0190	3.1943	1.6552	9.56E-02
91	0.00	0.000	0.000	0.0190	2.7397	1.4196	9.43E-02
92	0.00	0.000	0.000	0.0190	2.3466	1.2159	9.32E-02
93	0.00	0.000	0.000	0.0190	2.0067	1.0398	9.22E-02
94	0.00	0.000	0.000	0.0190	1.7128	0.8875	9.13E-02
95	0.00	0.000	0.000	0.0190	1.4587	0.7558	9.06E-02
96	0.00	0.000	0.000	0.0190	1.2389	0.6419	9.00E-02
97	0.50	0.000	0.099	0.0203	1.0488	0.5435	8.94E-02
98	0.00	0.000	0.200	0.0197	0.8845	0.4583	8.89E-02
99	0.00	0.000	0.148	0.0192	0.7424	0.3847	8.85E-02
100	0.00	0.000	0.039	0.0190	0.6195	0.3210	8.82E-02
101	0.00	0.000	0.011	0.0190	0.5133	0.2660	8.79E-02
102	0.00	0.000	0.003	0.0190	0.4214	0.2184	8.76E-02
103	0.20	0.000	0.094	0.0194	0.3420	0.1772	8.74E-02
104	3.40	0.000	0.240	0.0299	0.2733	0.1416	8.72E-02
105	0.40	0.000	0.346	0.0301	0.2139	0.1108	8.70E-02
106	0.30	0.000	0.405	0.0297	0.1625	0.0842	8.69E-02
107	3.80	0.000	0.401	0.0410	0.1181	0.0612	8.67E-02
108	0.00	0.000	0.353	0.0399	0.0797	0.0413	8.66E-02

109	0.00	0.000	0.370	0.0386	0.0465	0.0241	8.65E-02
110	0.00	0.000	0.388	0.0373	0.0177	0.0092	8.64E-02
111	0.00	0.000	0.383	0.0361	0.0004	0.0001	6.00E-03
112	0.00	0.000	0.378	0.0348	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.360	0.0336	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.370	0.0324	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.366	0.0312	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.362	0.0299	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.358	0.0288	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.357	0.0276	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.362	0.0264	0.0000	0.0000	0.00E+00
120	1.00	0.000	0.425	0.0283	0.0000	0.0000	0.00E+00
121	2.40	0.000	0.421	0.0349	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.352	0.0337	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.348	0.0325	0.0000	0.0000	0.00E+00
124	0.20	0.000	0.409	0.0318	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.342	0.0307	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.339	0.0296	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.336	0.0284	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.333	0.0273	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.330	0.0262	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.328	0.0251	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.325	0.0241	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.322	0.0230	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.320	0.0219	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.317	0.0209	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.315	0.0198	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.244	0.0190	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
147	0.10	0.000	0.079	0.0191	0.0000	0.0000	0.00E+00
148	0.90	0.000	0.096	0.0218	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.119	0.0214	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.168	0.0208	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.190	0.0202	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.189	0.0195	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.122	0.0191	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.028	0.0190	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
158	0.20	0.000	0.092	0.0194	0.0000	0.0000	0.00E+00
159	7.00	0.000	0.187	0.0421	0.0000	0.0000	0.00E+00
160	1.00	0.000	0.294	0.0444	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.255	0.0436	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.257	0.0427	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.255	0.0419	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.254	0.0410	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.252	0.0402	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.259	0.0393	0.0000	0.0000	0.00E+00

167	0.90	0.000	0.328	0.0412	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.257	0.0404	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.255	0.0395	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.254	0.0387	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.253	0.0378	0.0000	0.0000	4.43E-04
172	0.00	0.000	0.252	0.0370	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.250	0.0362	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.249	0.0353	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.248	0.0345	0.0000	0.0000	1.09E-04
176	0.00	0.000	0.247	0.0337	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.246	0.0329	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.245	0.0320	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.244	0.0312	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.242	0.0304	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.241	0.0296	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.240	0.0288	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.239	0.0280	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.238	0.0272	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.237	0.0264	0.0000	0.0000	9.00E-05
186	0.00	0.000	0.236	0.0256	0.0000	0.0000	8.40E-06
187	0.00	0.000	0.235	0.0249	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.234	0.0241	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.233	0.0233	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.232	0.0225	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.231	0.0218	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.230	0.0210	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.229	0.0202	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.228	0.0193	0.0069	0.0034	5.37E-02
195	0.00	0.000	0.082	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.50	0.000	0.101	0.0203	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.085	0.0200	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.122	0.0196	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.118	0.0192	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.042	0.0191	0.0000	0.0000	0.00E+00
232	0.40	0.000	0.122	0.0200	0.0000	0.0000	0.00E+00
233	4.00	0.000	0.174	0.0328	0.0000	0.0000	0.00E+00
234	7.00	0.000	0.220	0.0554	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.192	0.0547	0.0000	0.0000	0.00E+00
236	2.00	0.000	0.283	0.0605	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.197	0.0591	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.196	0.0549	0.1550	0.0803	8.68E-02
239	0.00	0.000	0.196	0.0518	0.3586	0.1858	8.74E-02
240	0.00	0.000	0.195	0.0495	0.4490	0.2327	8.77E-02
241	0.00	0.000	0.195	0.0476	0.4822	0.2499	8.78E-02
242	0.00	0.000	0.194	0.0460	0.4841	0.2508	8.78E-02
243	0.00	0.000	0.193	0.0445	0.4679	0.2424	8.77E-02
244	0.00	0.000	0.193	0.0432	0.4414	0.2287	8.77E-02
245	0.00	0.000	0.192	0.0420	0.4092	0.2120	8.76E-02
246	0.00	0.000	0.192	0.0408	0.3742	0.1939	8.75E-02
247	0.00	0.000	0.166	0.0400	0.3364	0.1743	8.74E-02
248	0.00	0.000	0.191	0.0394	0.2748	0.1424	8.72E-02
249	0.00	0.000	0.190	0.0388	0.2152	0.1115	8.70E-02
250	0.00	0.000	0.190	0.0381	0.1636	0.0848	8.69E-02
251	0.00	0.000	0.189	0.0375	0.1190	0.0617	8.67E-02
252	0.00	0.000	0.189	0.0369	0.0805	0.0417	8.66E-02
253	0.00	0.000	0.188	0.0363	0.0472	0.0244	8.65E-02

254	0.00	0.000	0.188	0.0356	0.0184	0.0095	8.65E-02
255	0.00	0.000	0.187	0.0350	0.0006	0.0001	8.03E-03
256	0.00	0.000	0.187	0.0344	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.186	0.0338	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.186	0.0331	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.185	0.0325	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.185	0.0319	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.184	0.0313	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.184	0.0307	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.183	0.0301	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.183	0.0295	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.182	0.0289	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.182	0.0283	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.181	0.0277	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.181	0.0270	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.180	0.0264	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.180	0.0258	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.180	0.0252	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.179	0.0247	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.179	0.0241	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.178	0.0235	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.178	0.0229	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.177	0.0223	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.177	0.0217	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.176	0.0211	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.176	0.0205	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.176	0.0199	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.175	0.0193	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.103	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
322	0.20	0.000	0.099	0.0193	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.013	0.0193	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.028	0.0192	0.0000	0.0000	0.00E+00
325	0.10	0.000	0.087	0.0192	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.016	0.0192	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.027	0.0191	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.023	0.0190	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.005	0.0190	0.0000	0.0000	7.63E-06
330	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
343	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
346	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
347	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
348	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
349	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
350	0.20	0.000	0.099	0.0193	0.0000	0.0000	0.00E+00
351	0.00	0.000	0.013	0.0193	0.0000	0.0000	0.00E+00
352	0.00	0.000	0.027	0.0192	0.0000	0.0000	0.00E+00
353	0.00	0.000	0.026	0.0191	0.0000	0.0000	0.00E+00
354	0.00	0.000	0.026	0.0190	0.0000	0.0000	0.00E+00
355	0.00	0.000	0.008	0.0190	0.0000	0.0000	0.00E+00
356	0.40	0.000	0.112	0.0200	0.0000	0.0000	0.00E+00
357	5.60	0.000	0.163	0.0381	0.0000	0.0000	2.92E-06
358	0.00	0.000	0.123	0.0377	0.0000	0.0000	0.00E+00
359	0.00	0.000	0.137	0.0372	0.0000	0.0000	0.00E+00
360	0.00	0.000	0.136	0.0368	0.0000	0.0000	0.00E+00
361	0.00	0.000	0.136	0.0363	0.0000	0.0000	0.00E+00
362	3.20	0.000	0.238	0.0462	0.0000	0.0000	0.00E+00
363	2.60	0.000	0.247	0.0540	0.0000	0.0000	0.00E+00
364	0.00	0.000	0.148	0.0535	0.0000	0.0000	0.00E+00
365	0.00	0.000	0.148	0.0530	0.0004	0.0001	5.82E-03

* = Frozen (air or soil)

Annual Totals for Year 7			
	mm*	cubic meters	percent
Precipitation	828.10	8,281.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	157.496	1,575.0	19.02
Drainage Collected from Layer 2	639.8240	6,398.2	77.26
Percolation/Leakage through Layer 3	24.489918	244.9	2.96
Average Head on Top of Layer 3	12.7885 (cm)	---	---
Change in Water Storage	6.2903	62.9	0.76
Soil Water at Start of Year	855.4170	8,554.2	103.30
Soil Water at End of Year	861.7073	8,617.1	104.06
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 8

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.148	0.0522		0.0035	0.0018	4.32E-02
2			3.00	0.000	0.219	0.0611		0.0190	0.0098	8.65E-02
3			0.00	0.000	0.147	0.0595		0.0115	0.0059	8.64E-02
4			0.00	0.000	0.147	0.0554		0.1872	0.0970	8.69E-02
5			0.00	0.000	0.147	0.0535		0.3486	0.1806	8.74E-02
6	*Note: head c		0.10	0.000	0.198	0.0522		0.3756	0.1946	8.75E-02
7			1.40	0.000	0.209	0.0552		0.3834	0.1987	8.75E-02
8			2.00	0.000	0.208	0.0608		0.3590	0.1860	8.74E-02
9			0.00	0.000	0.146	0.0595		0.3059	0.1585	8.73E-02
10			0.00	0.000	0.146	0.0552		0.4307	0.2232	8.76E-02
11			0.00	0.000	0.146	0.0523		0.6041	0.3130	8.81E-02
12			1.40	0.000	0.202	0.0563		0.6096	0.3159	8.82E-02
13			0.40	0.000	0.200	0.0564		0.5145	0.2666	8.79E-02
14			0.00	0.000	0.145	0.0544		0.4943	0.2561	8.78E-02
15			0.00	0.000	0.145	0.0526		0.5244	0.2717	8.79E-02
16			0.00	0.000	0.144	0.0509		0.5324	0.2758	8.79E-02
17			0.00	0.000	0.144	0.0503		0.5011	0.2597	8.78E-02
18			0.00	0.000	0.144	0.0498		0.4138	0.2144	8.76E-02
19			2.20	0.000	0.193	0.0563		0.3354	0.1738	8.74E-02
20			8.40	0.000	0.192	0.0626		0.3122	0.1618	8.73E-02
21			0.10	0.000	0.185	0.0581		0.3466	0.1796	8.74E-02

22	0.00	0.000	0.143	0.0552	1.0181	0.5275	8.93E-02
23	0.00	0.000	0.143	0.0532	1.9535	1.0122	9.20E-02
24	0.00	0.000	0.143	0.0527	1.9776	1.0247	9.21E-02
25	2.90	0.000	0.188	0.0613	1.7140	0.8881	9.13E-02
26	10.00	0.000	0.187	0.0665	1.5814	0.8194	9.10E-02
27	0.00	0.000	0.142	0.0570	1.4614	0.7572	9.06E-02
28	0.00	0.000	0.142	0.0549	1.9124	0.9909	9.19E-02
29	0.00	0.000	0.141	0.0544	2.8667	1.4854	9.47E-02
30	0.00	0.000	0.141	0.0539	3.2977	1.7087	9.59E-02
31	0.00	0.000	0.141	0.0534	2.8291	1.4659	9.45E-02
32	0.00	0.000	0.141	0.0530	2.4239	1.2560	9.34E-02
33	0.00	0.000	0.141	0.0525	2.0736	1.0744	9.24E-02
34	0.00	0.000	0.140	0.0520	1.7706	0.9175	9.15E-02
35	0.00	0.000	0.140	0.0516	1.5086	0.7817	9.07E-02
36	7.80	0.000	0.182	0.0698	1.2888	0.6678	9.01E-02
37	8.20	0.000	0.181	0.0622	1.1572	0.5996	8.97E-02
38	2.80	0.000	0.181	0.0569	1.0200	0.5285	8.93E-02
39	21.80	0.000	3.514	0.0862	1.5664	0.8117	9.09E-02
40	41.80	0.000	4.260	0.0920	1.6843	0.8727	9.12E-02
41	85.70	0.000	5.307	0.1094	1.4340	0.7430	9.05E-02
42	2.00	0.000	6.539	0.0424	1.2175	0.6309	8.99E-02
43	0.40	0.000	5.592	0.0251	3.7539	1.9451	9.72E-02
44	13.20	0.000	6.201	0.0484	8.0135	4.1523	1.09E-01
45	0.00	0.000	4.889	0.0321	11.0850	5.7438	1.18E-01
46	0.00	0.000	3.539	0.0204	13.2101	6.8449	1.24E-01
47	10.30	0.000	5.166	0.0375	14.6237	7.5774	1.29E-01
48	7.00	0.000	3.805	0.0481	15.5032	8.0331	1.31E-01
49	1.80	0.000	5.921	0.0344	15.9817	8.2811	1.32E-01
50	0.00	0.000	4.155	0.0205	16.1601	8.3735	1.33E-01

51	0.00	0.000	0.339	0.0191	16.1059	8.3454	1.33E-01
52	0.00	0.000	0.023	0.0190	15.8872	8.2321	1.32E-01
53	0.00	0.000	0.006	0.0190	15.5643	8.0648	1.31E-01
54	0.00	0.000	0.001	0.0190	15.1562	7.8533	1.30E-01
55	8.20	0.000	0.721	0.0439	14.6901	7.6118	1.29E-01
56	39.00	0.000	1.409	0.1050	14.2035	7.3597	1.27E-01
57	1.00	0.000	6.091	0.0433	13.0522	6.7631	1.24E-01
58	6.00	0.000	5.749	0.0442	12.3176	6.3825	1.22E-01
59	19.60	0.000	6.172	0.0866	12.4574	6.4549	1.22E-01
60	4.80	0.000	4.895	0.0572	12.3404	6.3943	1.22E-01
61	58.20	0.000	5.077	0.1027	11.2285	5.8181	1.19E-01
62	0.00	0.000	4.358	0.0519	9.9873	5.1750	1.15E-01
63	0.00	0.000	6.208	0.0312	10.1096	5.2384	1.16E-01
64	0.40	0.000	3.479	0.0190	11.3021	5.8563	1.19E-01
65	0.00	0.000	0.000	0.0190	12.1024	6.2710	1.21E-01
66	0.00	0.000	0.000	0.0190	12.6696	6.5649	1.23E-01
67	0.00	0.000	0.000	0.0190	12.9807	6.7261	1.24E-01
68	0.00	0.000	0.000	0.0190	13.0952	6.7854	1.24E-01
69	0.00	0.000	0.000	0.0190	13.0597	6.7670	1.24E-01
70	0.00	0.000	0.000	0.0190	12.9111	6.6900	1.24E-01
71	1.10	0.000	0.158	0.0221	12.6786	6.5695	1.23E-01
72	1.40	0.000	0.546	0.0250	12.3582	6.4035	1.22E-01
73	0.60	0.000	0.498	0.0253	10.9788	5.6888	1.18E-01
74	0.00	0.000	0.672	0.0231	9.4711	4.9075	1.14E-01
75	0.00	0.000	0.626	0.0210	8.1673	4.2320	1.10E-01
76	0.00	0.000	0.529	0.0192	7.0399	3.6478	1.07E-01
77	0.00	0.000	0.052	0.0191	6.0651	3.1427	1.04E-01
78	0.00	0.000	0.013	0.0190	5.2221	2.7059	1.01E-01
79	0.00	0.000	0.004	0.0190	4.4932	2.3282	9.93E-02

80	0.00	0.000	0.000	0.0190	3.8629	2.0016	9.75E-02
81	0.00	0.000	0.000	0.0190	3.3178	1.7192	9.60E-02
82	32.00	0.000	0.656	0.0914	2.8465	1.4750	9.46E-02
83	0.00	0.000	5.434	0.0424	2.4748	1.2823	9.35E-02
84	0.00	0.000	6.586	0.0205	2.6325	1.3641	9.40E-02
85	0.00	0.000	0.327	0.0190	3.5309	1.8296	9.66E-02
86	0.00	0.000	0.000	0.0190	4.5329	2.3488	9.95E-02
87	0.00	0.000	0.000	0.0190	5.2523	2.7215	1.02E-01
88	0.00	0.000	0.000	0.0190	4.7672	2.4702	1.00E-01
89	0.10	0.000	0.100	0.0190	4.0998	2.1244	9.82E-02
90	0.00	0.000	0.000	0.0190	3.5227	1.8253	9.65E-02
91	0.00	0.000	0.000	0.0190	3.0237	1.5668	9.51E-02
92	0.00	0.000	0.000	0.0190	2.5922	1.3432	9.39E-02
93	0.00	0.000	0.000	0.0190	2.2191	1.1498	9.28E-02
94	0.00	0.000	0.000	0.0190	1.8964	0.9826	9.19E-02
95	0.00	0.000	0.000	0.0190	1.6174	0.8381	9.11E-02
96	0.00	0.000	0.000	0.0190	1.3762	0.7131	9.04E-02
97	0.00	0.000	0.000	0.0190	1.1676	0.6050	8.98E-02
98	0.00	0.000	0.000	0.0190	0.9872	0.5115	8.92E-02
99	0.00	0.000	0.000	0.0190	0.8312	0.4307	8.88E-02
100	0.00	0.000	0.000	0.0190	0.6963	0.3608	8.84E-02
101	0.00	0.000	0.000	0.0190	0.5797	0.3004	8.81E-02
102	0.00	0.000	0.000	0.0190	0.4788	0.2481	8.78E-02
103	0.00	0.000	0.000	0.0190	0.3916	0.2029	8.75E-02
104	0.00	0.000	0.000	0.0190	0.3162	0.1638	8.73E-02
105	0.00	0.000	0.000	0.0190	0.2510	0.1300	8.71E-02
106	0.00	0.000	0.000	0.0190	0.1946	0.1008	8.70E-02
107	1.80	0.000	0.271	0.0241	0.1458	0.0756	8.68E-02
108	12.40	0.000	0.399	0.0641	0.1037	0.0537	8.67E-02

109	0.00	0.000	0.498	0.0581	0.0672	0.0348	8.66E-02
110	0.40	0.000	0.551	0.0556	0.3205	0.1661	8.73E-02
111	8.60	0.000	0.542	0.0633	0.4709	0.2440	8.78E-02
112	0.10	0.000	0.527	0.0530	0.4349	0.2253	8.77E-02
113	0.00	0.000	0.477	0.0492	1.0075	0.5220	8.93E-02
114	0.20	0.000	0.516	0.0482	2.0432	1.0587	9.23E-02
115	0.00	0.000	0.461	0.0450	2.2415	1.1614	9.29E-02
116	0.00	0.000	0.454	0.0427	2.0106	1.0418	9.22E-02
117	0.00	0.000	0.439	0.0407	1.7897	0.9274	9.16E-02
118	0.00	0.000	0.440	0.0392	1.5393	0.7976	9.08E-02
119	0.00	0.000	0.434	0.0378	1.3086	0.6781	9.02E-02
120	0.00	0.000	0.428	0.0363	1.1092	0.5747	8.96E-02
121	0.00	0.000	0.422	0.0349	0.9367	0.4853	8.91E-02
122	0.00	0.000	0.416	0.0335	0.7875	0.4081	8.87E-02
123	0.00	0.000	0.411	0.0322	0.6585	0.3412	8.83E-02
124	0.00	0.000	0.405	0.0308	0.5470	0.2834	8.80E-02
125	0.00	0.000	0.400	0.0295	0.4506	0.2335	8.77E-02
126	0.00	0.000	0.396	0.0282	0.3672	0.1903	8.75E-02
127	0.00	0.000	0.391	0.0269	0.2957	0.1532	8.73E-02
128	0.00	0.000	0.386	0.0256	0.2335	0.1210	8.71E-02
129	0.00	0.000	0.382	0.0243	0.1795	0.0930	8.69E-02
130	0.00	0.000	0.378	0.0230	0.1327	0.0688	8.68E-02
131	0.00	0.000	0.374	0.0218	0.0923	0.0479	8.67E-02
132	0.00	0.000	0.370	0.0206	0.0574	0.0298	8.66E-02
133	0.10	0.000	0.411	0.0195	0.0272	0.0141	8.65E-02
134	0.20	0.000	0.216	0.0195	0.0036	0.0017	3.59E-02
135	6.00	0.000	0.203	0.0388	0.0000	0.0000	0.00E+00
136	0.60	0.000	0.345	0.0396	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.321	0.0386	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.318	0.0375	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.315	0.0365	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.318	0.0354	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.330	0.0343	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.325	0.0332	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.323	0.0321	0.0000	0.0000	0.00E+00
144	0.10	0.000	0.367	0.0313	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.317	0.0302	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.315	0.0292	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.312	0.0281	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.310	0.0271	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.307	0.0261	0.0000	0.0000	0.00E+00
150	1.20	0.000	0.365	0.0288	0.0000	0.0000	0.00E+00
151	1.40	0.000	0.363	0.0323	0.0000	0.0000	0.00E+00
152	0.10	0.000	0.349	0.0315	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.298	0.0305	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.296	0.0295	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.294	0.0285	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.292	0.0275	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.299	0.0265	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.297	0.0255	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.295	0.0246	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.293	0.0236	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.291	0.0226	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.289	0.0216	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.288	0.0207	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.286	0.0197	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.174	0.0192	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.047	0.0190	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
175	0.60	0.000	0.090	0.0207	0.0000	0.0000	0.00E+00
176	6.60	0.000	0.178	0.0421	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.218	0.0414	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.244	0.0406	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.255	0.0397	0.0000	0.0000	0.00E+00
180	0.10	0.000	0.305	0.0390	0.0000	0.0000	0.00E+00
181	0.10	0.000	0.304	0.0384	0.0000	0.0000	0.00E+00
182	0.10	0.000	0.303	0.0377	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.249	0.0369	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.247	0.0360	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.246	0.0352	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.245	0.0344	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.244	0.0336	0.0000	0.0000	0.00E+00
188	0.80	0.000	0.314	0.0352	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.241	0.0344	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.248	0.0336	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.247	0.0327	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.246	0.0319	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.235	0.0311	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.244	0.0303	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.242	0.0295	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.241	0.0287	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.240	0.0279	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.239	0.0271	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.238	0.0263	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.237	0.0255	0.0000	0.0000	0.00E+00
201	0.10	0.000	0.292	0.0249	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.229	0.0241	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.231	0.0234	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.232	0.0226	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.232	0.0218	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.231	0.0210	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.230	0.0203	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.229	0.0195	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.114	0.0190	0.0037	0.0017	3.64E-02
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.10	0.000	0.076	0.0191	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.014	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.10	0.000	0.076	0.0191	0.0000	0.0000	0.00E+00
224	0.10	0.000	0.076	0.0192	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.018	0.0191	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.024	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.005	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	1.20	0.000	0.100	0.0227	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.087	0.0224	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.135	0.0219	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.139	0.0215	0.0000	0.0000	0.00E+00
238	7.20	0.000	0.221	0.0447	0.0000	0.0000	0.00E+00
239	0.10	0.000	0.227	0.0443	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.198	0.0436	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.197	0.0430	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.197	0.0423	0.0000	0.0000	0.00E+00
243	0.60	0.000	0.282	0.0434	0.0000	0.0000	0.00E+00
244	1.40	0.000	0.288	0.0471	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.201	0.0464	0.0001	0.0000	1.31E-03
246	0.00	0.000	0.201	0.0458	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.200	0.0451	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.199	0.0444	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.199	0.0438	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.198	0.0431	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.197	0.0424	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.197	0.0418	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.196	0.0411	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.196	0.0404	0.0002	0.0001	1.02E-02
255	0.00	0.000	0.172	0.0396	0.0009	0.0005	6.48E-02
256	0.00	0.000	0.195	0.0389	0.0010	0.0005	2.01E-02
257	0.00	0.000	0.194	0.0383	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.193	0.0376	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.193	0.0370	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.192	0.0364	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.192	0.0357	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.191	0.0351	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.191	0.0345	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.190	0.0338	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.190	0.0332	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.189	0.0326	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.189	0.0319	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.188	0.0313	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.188	0.0307	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.187	0.0300	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.187	0.0294	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.186	0.0288	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.186	0.0282	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.185	0.0276	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.185	0.0270	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.184	0.0263	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.184	0.0257	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.183	0.0251	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.183	0.0245	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.182	0.0239	0.0000	0.0000	0.00E+00
281	19.20	0.000	0.289	0.0869	0.0000	0.0000	0.00E+00
282	0.10	0.000	0.247	0.0502	0.0825	0.0427	6.50E-02

283	0.00	0.000	0.181	0.0493	0.4381	0.2270	8.77E-02
284	0.00	0.000	0.180	0.0487	1.3466	0.6977	9.03E-02
285	1.50	0.000	0.290	0.0527	2.3878	1.2373	9.33E-02
286	0.00	0.000	0.180	0.0521	2.1820	1.1306	9.27E-02
287	0.00	0.000	0.179	0.0515	1.8644	0.9661	9.18E-02
288	0.00	0.000	0.179	0.0509	1.5897	0.8237	9.10E-02
289	0.00	0.000	0.178	0.0503	1.3522	0.7007	9.03E-02
290	1.20	0.000	0.290	0.0533	1.1468	0.5942	8.97E-02
291	0.00	0.000	0.177	0.0474	0.9912	0.5136	8.93E-02
292	0.00	0.000	0.177	0.0458	1.1346	0.5879	8.97E-02
293	0.00	0.000	0.176	0.0452	1.1304	0.5857	8.97E-02
294	0.00	0.000	0.176	0.0445	0.9550	0.4948	8.91E-02
295	0.00	0.000	0.176	0.0432	0.8451	0.4379	8.88E-02
296	0.00	0.000	0.175	0.0426	0.7342	0.3804	8.85E-02
297	0.10	0.000	0.242	0.0421	0.6124	0.3173	8.82E-02
298	0.00	0.000	0.174	0.0408	0.5318	0.2756	8.79E-02
299	0.00	0.000	0.174	0.0397	0.4869	0.2523	8.78E-02
300	1.00	0.000	0.292	0.0421	0.4224	0.2188	8.76E-02
301	0.00	0.000	0.173	0.0412	0.3568	0.1849	8.74E-02
302	0.00	0.000	0.173	0.0404	0.3022	0.1566	8.73E-02
303	0.00	0.000	0.172	0.0395	0.2611	0.1353	8.72E-02
304	0.00	0.000	0.172	0.0387	0.2245	0.1163	8.70E-02
305	0.00	0.000	0.172	0.0379	0.1889	0.0979	8.69E-02
306	0.00	0.000	0.171	0.0372	0.1551	0.0804	8.68E-02
307	0.00	0.000	0.171	0.0365	0.1237	0.0641	8.68E-02
308	0.00	0.000	0.170	0.0358	0.0952	0.0493	8.67E-02
309	0.00	0.000	0.170	0.0351	0.0697	0.0361	8.66E-02
310	0.00	0.000	0.168	0.0346	0.0412	0.0214	8.65E-02
311	0.00	0.000	0.169	0.0340	0.0132	0.0067	7.76E-02

312	0.10	0.000	0.238	0.0335	0.0000	0.0000	0.00E+00
313	0.10	0.000	0.238	0.0331	0.0000	0.0000	0.00E+00
314	1.80	0.000	0.295	0.0381	0.0000	0.0000	0.00E+00
315	1.40	0.000	0.295	0.0418	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.167	0.0412	0.0006	0.0001	8.21E-03
317	0.00	0.000	0.167	0.0406	0.0000	0.0000	0.00E+00
318	0.20	0.000	0.269	0.0404	0.0000	0.0000	0.00E+00
319	0.80	0.000	0.296	0.0421	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.166	0.0415	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.166	0.0409	0.0005	0.0001	7.13E-03
322	0.00	0.000	0.165	0.0404	0.0004	0.0001	5.72E-03
323	0.00	0.000	0.165	0.0398	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.165	0.0393	0.0003	0.0000	4.72E-03
325	0.00	0.000	0.164	0.0387	0.0006	0.0001	8.98E-03
326	0.00	0.000	0.164	0.0381	0.0006	0.0001	9.24E-03
327	0.30	0.000	0.285	0.0381	0.0006	0.0001	8.84E-03
328	0.00	0.000	0.163	0.0375	0.0009	0.0001	1.32E-02
329	0.00	0.000	0.163	0.0370	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.163	0.0364	0.0005	0.0001	1.47E-02
331	0.00	0.000	0.162	0.0358	0.0007	0.0002	2.05E-02
332	0.40	0.000	0.294	0.0362	0.0000	0.0000	0.00E+00
333	0.80	0.000	0.301	0.0378	0.0004	0.0001	5.93E-03
334	4.00	0.000	0.302	0.0501	0.0000	0.0000	0.00E+00
335	0.30	0.000	0.285	0.0502	0.0000	0.0000	0.00E+00
336	1.00	0.000	0.302	0.0525	0.0000	0.0000	0.00E+00
337	2.00	0.000	0.303	0.0581	0.0000	0.0000	0.00E+00
338	0.00	0.000	6.391	0.0367	0.0005	0.0001	6.81E-03
339	0.30	0.000	0.286	0.0367	0.0044	0.0021	5.78E-02
340	17.60	0.000	0.304	0.0942	0.0004	0.0001	2.53E-02

341	0.00	0.000	6.468	0.0402	0.0000	0.0000	0.00E+00
342	0.00	0.000	5.721	0.0190	0.4497	0.2330	8.77E-02
343	0.40	0.000	0.400	0.0190	1.5329	0.7943	9.08E-02
344	0.00	0.000	0.000	0.0190	2.3457	1.2155	9.32E-02
345	0.00	0.000	0.000	0.0190	2.0342	1.0541	9.23E-02
346	1.40	0.000	0.261	0.0228	1.7366	0.8998	9.14E-02
347	43.00	0.000	1.350	0.0906	1.4792	0.7665	9.07E-02
348	0.40	0.000	4.879	0.0304	1.2567	0.6511	9.00E-02
349	0.40	0.000	3.653	0.0190	1.6503	0.8551	9.12E-02
350	0.00	0.000	0.000	0.0190	3.1669	1.6410	9.55E-02
351	23.50	0.000	4.911	0.0810	4.4801	2.3214	9.93E-02
352	1.60	0.000	5.239	0.0395	5.5298	2.8653	1.02E-01
353	0.00	0.000	6.029	0.0194	5.5326	2.8668	1.02E-01
354	3.20	0.000	2.396	0.0220	5.9611	3.0888	1.04E-01
355	0.00	0.000	0.490	0.0204	6.6837	3.4632	1.06E-01
356	0.00	0.000	0.331	0.0193	7.2469	3.7551	1.07E-01
357	0.00	0.000	0.068	0.0191	6.8299	3.5390	1.06E-01
358	0.00	0.000	0.017	0.0190	5.8835	3.0486	1.03E-01
359	0.00	0.000	0.004	0.0190	5.0651	2.6245	1.01E-01
360	0.00	0.000	0.001	0.0190	4.3574	2.2578	9.89E-02
361	0.00	0.000	0.000	0.0190	3.7455	1.9407	9.72E-02
362	0.00	0.000	0.000	0.0190	3.2163	1.6666	9.57E-02
363	53.80	0.000	1.238	0.0981	2.8036	1.4527	9.45E-02
364	11.20	0.000	6.014	0.0609	2.5271	1.3094	9.37E-02
365	0.20	0.000	5.298	0.0436	2.7469	1.4233	9.43E-02

* = Frozen (air or soil)

Annual Totals for Year 8			
	mm*	cubic meters	percent
Precipitation	652.80	6,528.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	239.563	2,395.6	36.70
Drainage Collected from Layer 2	349.6588	3,496.6	53.56
Percolation/Leakage through Layer 3	18.478516	184.8	2.83
Average Head on Top of Layer 3	1.8438 (cm)	---	---
Change in Water Storage	45.0992	451.0	6.91
Soil Water at Start of Year	861.7073	8,617.1	132.00
Soil Water at End of Year	906.8065	9,068.1	138.91
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 9

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone				
	Air	Soil				Water (cm/cm)	Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)	
1				0.30	0.000	6.460	0.0190	5.5872	2.8951	1.02E-01
2				0.00	0.000	0.000	0.0190	6.6020	3.4209	1.05E-01
3				0.00	0.000	0.000	0.0190	7.3575	3.8123	1.08E-01
4				0.00	0.000	0.000	0.0190	7.9031	4.0951	1.09E-01
5				0.60	0.000	0.523	0.0193	8.3083	4.3050	1.10E-01
6	*Note: head c			0.80	0.000	0.272	0.0210	7.8026	4.0430	1.09E-01
7				0.20	0.000	0.491	0.0200	6.7245	3.4844	1.06E-01
8				0.00	0.000	0.213	0.0193	5.7923	3.0014	1.03E-01
9				0.00	0.000	0.073	0.0191	4.9863	2.5837	1.01E-01
10				10.50	0.000	0.836	0.0513	4.2892	2.2225	9.88E-02
11				25.40	0.000	1.063	0.0916	3.6865	1.9102	9.70E-02
12				45.00	0.000	2.822	0.0919	3.1653	1.6402	9.55E-02
13				177.60	0.000	5.144	0.1380	2.7147	1.4066	9.42E-02
14				19.40	0.000	5.377	0.0826	2.3439	1.2145	9.31E-02
15				27.40	0.000	4.351	0.0913	8.4084	4.3569	1.11E-01
16				31.60	0.000	3.611	0.0913	12.6643	6.5621	1.23E-01
17				1.40	0.000	5.528	0.0487	15.4417	8.0012	1.31E-01
18				0.00	0.000	6.767	0.0262	21.3846	11.0806	1.48E-01
19				0.00	0.000	2.122	0.0191	27.0305	14.0061	1.64E-01
20				0.00	0.000	0.024	0.0190	33.5429	15.4468	1.83E-01
21				2.40	0.000	1.503	0.0220	40.4829	15.5629	2.03E-01

22	10.20	0.000	4.186	0.0421	41.7863	15.5651	2.07E-01
23	4.20	0.000	5.088	0.0391	40.5942	15.5631	2.03E-01
24	0.00	0.000	4.387	0.0245	37.4911	15.5577	1.94E-01
25	0.00	0.000	1.424	0.0197	30.9105	15.3945	1.75E-01
26	0.00	0.000	0.203	0.0191	28.4276	14.7300	1.68E-01
27	0.00	0.000	0.014	0.0190	27.0217	14.0015	1.64E-01
28	0.00	0.000	0.003	0.0190	25.5918	13.2606	1.60E-01
29	0.00	0.000	0.001	0.0190	24.1729	12.5254	1.56E-01
30	0.00	0.000	0.000	0.0190	22.7889	11.8083	1.52E-01
31	3.20	0.000	0.533	0.0279	21.4557	11.1175	1.48E-01
32	1.80	0.000	0.496	0.0322	20.1834	10.4582	1.45E-01
33	53.60	0.000	1.009	0.1137	18.9940	9.8419	1.41E-01
34	0.40	0.000	5.468	0.0401	17.2191	8.9222	1.36E-01
35	32.80	0.000	5.906	0.0855	16.0250	8.3035	1.33E-01
36	0.80	0.000	4.205	0.0498	15.3034	7.9296	1.30E-01
37	4.00	0.000	4.139	0.0479	13.7891	7.1450	1.26E-01
38	1.50	0.000	6.159	0.0320	13.9181	7.2118	1.26E-01
39	0.00	0.000	3.484	0.0204	14.2350	7.3760	1.27E-01
40	15.00	0.000	4.930	0.0539	14.3425	7.4317	1.28E-01
41	0.40	0.000	4.391	0.0406	14.2884	7.4036	1.28E-01
42	28.20	0.000	4.047	0.0869	14.1165	7.3146	1.27E-01
43	116.60	0.000	4.138	0.1175	13.3975	6.9421	1.25E-01
44	24.20	0.000	3.593	0.0946	11.6309	6.0267	1.20E-01
45	46.00	0.000	4.030	0.0940	11.6908	6.0577	1.20E-01
46	22.00	0.000	6.881	0.0880	10.5534	5.4683	1.17E-01
47	0.00	0.000	6.695	0.0452	13.1469	6.8122	1.24E-01
48	0.00	0.000	6.517	0.0211	17.3846	9.0080	1.36E-01
49	0.60	0.000	1.221	0.0190	21.6227	11.2040	1.49E-01
50	0.30	0.000	0.300	0.0190	24.0610	12.4674	1.56E-01

51	0.00	0.000	0.000	0.0190	25.2975	13.1081	1.59E-01
52	0.00	0.000	0.000	0.0190	25.7553	13.3453	1.61E-01
53	0.00	0.000	0.000	0.0190	25.6746	13.3035	1.60E-01
54	0.00	0.000	0.000	0.0190	25.2238	13.0700	1.59E-01
55	0.00	0.000	0.000	0.0190	24.5234	12.7070	1.57E-01
56	7.70	0.000	0.563	0.0428	23.6602	12.2597	1.55E-01
57	0.00	0.000	0.894	0.0398	22.6973	11.7608	1.52E-01
58	0.00	0.000	0.968	0.0366	21.6805	11.2339	1.49E-01
59	77.90	0.000	0.991	0.1158	20.6547	10.7024	1.46E-01
60	1.10	0.000	6.137	0.0448	18.4953	9.5835	1.40E-01
61	0.00	0.000	6.809	0.0221	17.9463	9.2990	1.38E-01
62	0.00	0.000	0.692	0.0191	18.6245	9.6504	1.40E-01
63	1.80	0.000	0.959	0.0219	18.8615	9.7733	1.41E-01
64	0.00	0.000	0.690	0.0196	18.8368	9.7605	1.41E-01
65	0.00	0.000	0.135	0.0192	18.5877	9.6314	1.40E-01
66	0.00	0.000	0.034	0.0190	18.1792	9.4197	1.39E-01
67	0.00	0.000	0.009	0.0190	17.6604	9.1509	1.37E-01
68	0.00	0.000	0.002	0.0190	17.0683	8.8441	1.36E-01
69	0.00	0.000	0.001	0.0190	16.4311	8.5139	1.34E-01
70	0.00	0.000	0.000	0.0190	15.7698	8.1712	1.32E-01
71	0.00	0.000	0.000	0.0190	15.1001	7.8243	1.30E-01
72	5.80	0.000	0.476	0.0367	13.9922	7.2502	1.27E-01
73	1.30	0.000	0.721	0.0387	12.0768	6.2577	1.21E-01
74	0.00	0.000	0.797	0.0360	10.4205	5.3995	1.16E-01
75	0.60	0.000	0.813	0.0353	8.9883	4.6574	1.12E-01
76	0.00	0.000	0.723	0.0329	7.7499	4.0157	1.09E-01
77	2.00	0.000	0.747	0.0371	6.6790	3.4608	1.06E-01
78	3.40	0.000	0.718	0.0460	5.7529	2.9809	1.03E-01
79	0.00	0.000	0.671	0.0438	4.9522	2.5660	1.01E-01

80	0.00	0.000	0.658	0.0416	4.2598	2.2072	9.87E-02
81	0.00	0.000	0.627	0.0395	3.6610	1.8970	9.69E-02
82	0.00	0.000	0.560	0.0376	3.1433	1.6287	9.55E-02
83	0.00	0.000	0.590	0.0357	2.6956	1.3968	9.42E-02
84	0.00	0.000	0.593	0.0337	2.3085	1.1962	9.30E-02
85	3.20	0.000	0.640	0.0422	1.9738	1.0227	9.21E-02
86	4.80	0.000	0.626	0.0561	1.6843	0.8727	9.12E-02
87	0.00	0.000	0.550	0.0543	1.4340	0.7430	9.05E-02
88	0.00	0.000	0.537	0.0520	1.2192	0.6318	8.99E-02
89	0.00	0.000	0.526	0.0494	1.0957	0.5678	8.96E-02
90	0.00	0.000	0.515	0.0473	0.9857	0.5107	8.92E-02
91	0.00	0.000	0.505	0.0456	0.8392	0.4348	8.88E-02
92	0.00	0.000	0.495	0.0440	0.7032	0.3644	8.84E-02
93	0.00	0.000	0.486	0.0424	0.5856	0.3035	8.81E-02
94	0.00	0.000	0.477	0.0408	0.4840	0.2508	8.78E-02
95	7.20	0.000	0.532	0.0630	0.3961	0.2052	8.75E-02
96	0.00	0.000	0.461	0.0589	0.3541	0.1835	8.74E-02
97	0.00	0.000	0.454	0.0546	0.5528	0.2864	8.80E-02
98	0.00	0.000	0.447	0.0531	0.5661	0.2933	8.80E-02
99	0.00	0.000	0.440	0.0517	0.4671	0.2420	8.77E-02
100	0.00	0.000	0.434	0.0502	0.3815	0.1977	8.75E-02
101	0.00	0.000	0.428	0.0488	0.3074	0.1593	8.73E-02
102	0.00	0.000	0.422	0.0474	0.2434	0.1261	8.71E-02
103	1.80	0.000	0.477	0.0511	0.2295	0.1189	8.71E-02
104	0.00	0.000	0.411	0.0497	0.1889	0.0979	8.69E-02
105	0.00	0.000	0.405	0.0469	0.1940	0.1005	8.70E-02
106	0.00	0.000	0.400	0.0447	0.2346	0.1216	8.71E-02
107	0.00	0.000	0.396	0.0427	0.2415	0.1252	8.71E-02
108	0.00	0.000	0.391	0.0408	0.2375	0.1231	8.71E-02

109	0.00	0.000	0.334	0.0395	0.2223	0.1152	8.70E-02
110	0.00	0.000	0.382	0.0382	0.1767	0.0915	8.69E-02
111	0.00	0.000	0.378	0.0369	0.1303	0.0675	8.68E-02
112	0.00	0.000	0.374	0.0357	0.0903	0.0468	8.67E-02
113	0.00	0.000	0.370	0.0344	0.0556	0.0288	8.66E-02
114	0.00	0.000	0.366	0.0332	0.0257	0.0133	8.65E-02
115	0.00	0.000	0.362	0.0320	0.0029	0.0013	3.12E-02
116	36.00	0.000	0.420	0.0903	0.0000	0.0000	0.00E+00
117	4.40	0.000	3.753	0.0435	0.0000	0.0000	0.00E+00
118	8.80	0.000	3.563	0.0610	0.5859	0.3036	8.81E-02
119	2.60	0.000	4.555	0.0529	2.2327	1.1569	9.28E-02
120	2.40	0.000	4.803	0.0441	3.5745	1.8522	9.67E-02
121	0.00	0.000	4.494	0.0291	4.5815	2.3740	9.96E-02
122	0.00	0.000	2.894	0.0194	5.4606	2.8295	1.02E-01
123	0.00	0.000	0.118	0.0191	6.0767	3.1487	1.04E-01
124	0.00	0.000	0.013	0.0190	5.5063	2.8532	1.02E-01
125	0.00	0.000	0.004	0.0190	4.7390	2.4555	1.00E-01
126	0.40	0.000	0.400	0.0190	4.0754	2.1117	9.81E-02
127	1.70	0.000	0.478	0.0231	3.5016	1.8144	9.65E-02
128	0.00	0.000	0.677	0.0208	3.0054	1.5573	9.51E-02
129	0.00	0.000	0.355	0.0196	2.5764	1.3350	9.38E-02
130	0.00	0.000	0.142	0.0192	2.2054	1.1428	9.28E-02
131	2.80	0.000	0.550	0.0267	1.8846	0.9765	9.18E-02
132	1.00	0.000	0.487	0.0284	1.6072	0.8328	9.10E-02
133	0.00	0.000	0.629	0.0263	1.3673	0.7085	9.03E-02
134	0.00	0.000	0.701	0.0239	1.1599	0.6010	8.97E-02
135	0.00	0.000	0.680	0.0217	0.9806	0.5081	8.92E-02
136	0.10	0.000	0.696	0.0197	0.8255	0.4277	8.88E-02
137	0.00	0.000	0.162	0.0191	0.6914	0.3582	8.84E-02

138	0.00	0.000	0.032	0.0190	0.5754	0.2981	8.81E-02
139	0.00	0.000	0.011	0.0190	0.4751	0.2462	8.78E-02
140	0.00	0.000	0.000	0.0190	0.3884	0.2013	8.75E-02
141	0.00	0.000	0.000	0.0190	0.3134	0.1624	8.73E-02
142	0.00	0.000	0.000	0.0190	0.2486	0.1288	8.71E-02
143	0.30	0.000	0.113	0.0196	0.1925	0.0998	8.70E-02
144	0.00	0.000	0.050	0.0195	0.1440	0.0746	8.68E-02
145	0.00	0.000	0.109	0.0191	0.1021	0.0529	8.67E-02
146	0.10	0.000	0.120	0.0190	0.0659	0.0341	8.66E-02
147	0.00	0.000	0.005	0.0190	0.0345	0.0179	8.65E-02
148	0.00	0.000	0.002	0.0190	0.0079	0.0039	5.80E-02
149	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
153	0.20	0.000	0.101	0.0193	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.040	0.0192	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.043	0.0191	0.0000	0.0000	0.00E+00
156	0.10	0.000	0.101	0.0191	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.009	0.0190	0.0000	0.0000	0.00E+00
158	0.50	0.000	0.106	0.0203	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.186	0.0197	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.149	0.0192	0.0000	0.0000	1.56E-05
161	0.00	0.000	0.043	0.0191	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.015	0.0190	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.005	0.0190	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0190	0.0000	0.0000	3.44E-07
166	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
185	0.60	0.000	0.091	0.0207	0.0000	0.0000	0.00E+00
186	0.20	0.000	0.198	0.0207	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.136	0.0203	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.175	0.0197	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.139	0.0192	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.044	0.0191	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.014	0.0190	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	4.60	0.000	0.179	0.0337	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.183	0.0331	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.223	0.0324	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.221	0.0316	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.224	0.0309	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.243	0.0301	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.242	0.0293	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.240	0.0285	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.239	0.0277	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.238	0.0269	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.237	0.0261	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.235	0.0253	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.234	0.0245	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.233	0.0238	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.232	0.0230	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.231	0.0222	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.230	0.0215	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.242	0.0206	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.241	0.0198	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.190	0.0192	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.063	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.10	0.000	0.076	0.0191	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.014	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.20	0.000	0.090	0.0194	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.020	0.0193	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.041	0.0192	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.038	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.009	0.0190	0.0000	0.0000	0.00E+00
248	4.80	0.000	0.173	0.0344	0.0000	0.0000	0.00E+00
249	4.10	0.000	0.230	0.0473	0.0000	0.0000	0.00E+00
250	1.00	0.000	0.284	0.0497	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.227	0.0490	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.227	0.0482	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.226	0.0475	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.225	0.0467	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.224	0.0460	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.223	0.0452	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.222	0.0444	0.0020	0.0009	3.40E-02
258	0.00	0.000	0.221	0.0435	0.0008	0.0002	2.30E-02
259	0.00	0.000	0.221	0.0427	0.0017	0.0006	2.85E-02
260	0.00	0.000	0.220	0.0420	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.219	0.0412	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.218	0.0405	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.217	0.0398	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.217	0.0391	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.216	0.0384	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.215	0.0376	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.214	0.0369	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.213	0.0362	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.213	0.0355	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.212	0.0348	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.211	0.0341	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.211	0.0334	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.210	0.0327	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.209	0.0320	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.208	0.0313	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.208	0.0306	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.207	0.0299	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.206	0.0292	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.206	0.0285	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.205	0.0279	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.204	0.0272	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.204	0.0265	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.203	0.0258	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.202	0.0251	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.202	0.0245	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.201	0.0238	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.201	0.0231	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.200	0.0225	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.199	0.0218	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.199	0.0211	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.198	0.0205	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.197	0.0198	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.197	0.0192	0.0000	0.0000	0.00E+00
294	1.00	0.000	0.162	0.0220	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.082	0.0217	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.103	0.0213	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.131	0.0209	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.130	0.0205	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.130	0.0200	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.130	0.0196	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.108	0.0192	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.062	0.0190	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.009	0.0190	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
305	1.40	0.000	0.117	0.0233	0.0000	0.0000	0.00E+00
306	3.80	0.000	0.179	0.0353	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.127	0.0349	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.172	0.0344	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.172	0.0338	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.171	0.0332	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.171	0.0326	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.170	0.0321	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.170	0.0315	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.169	0.0309	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.169	0.0304	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.168	0.0298	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.160	0.0293	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.177	0.0287	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.180	0.0281	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.177	0.0275	0.0000	0.0000	0.00E+00
321	0.50	0.000	0.284	0.0282	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.176	0.0276	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.176	0.0271	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.176	0.0265	0.0000	0.0000	0.00E+00
325	2.10	0.000	0.291	0.0325	0.0000	0.0000	0.00E+00
326	0.40	0.000	0.288	0.0329	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.174	0.0323	0.0000	0.0000	0.00E+00
328	6.00	0.000	0.286	0.0513	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.175	0.0508	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.178	0.0502	0.0000	0.0000	0.00E+00
331	0.60	0.000	0.291	0.0512	0.0000	0.0000	0.00E+00
332	7.70	0.000	0.292	0.0646	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.177	0.0593	0.0315	0.0163	2.17E-02
334	0.00	0.000	0.176	0.0536	0.7536	0.3905	8.86E-02
335	0.00	0.000	0.176	0.0508	1.5060	0.7803	9.07E-02
336	0.40	0.000	0.289	0.0512	1.4442	0.7483	9.06E-02
337	0.00	0.000	0.175	0.0495	1.2510	0.6482	9.00E-02
338	0.00	0.000	0.175	0.0477	1.1606	0.6014	8.97E-02
339	0.00	0.000	0.174	0.0462	1.0658	0.5523	8.95E-02
340	0.00	0.000	0.174	0.0448	0.9688	0.5020	8.92E-02

341	0.10	0.000	0.241	0.0443	0.8517	0.4413	8.89E-02
342	0.60	0.000	0.293	0.0454	0.7140	0.3700	8.85E-02
343	14.00	0.000	0.294	0.0857	0.5950	0.3083	8.81E-02
344	9.60	0.000	0.294	0.0741	0.6907	0.3579	8.84E-02
345	66.70	0.000	0.294	0.1035	0.6149	0.3186	8.82E-02
346	1.00	0.000	5.718	0.0492	0.5376	0.2786	8.79E-02
347	4.00	0.000	6.774	0.0390	1.7098	0.8859	9.13E-02
348	0.00	0.000	5.734	0.0199	4.3175	2.2372	9.88E-02
349	0.00	0.000	0.207	0.0192	6.3418	3.2861	1.05E-01
350	0.50	0.000	0.553	0.0190	7.8516	4.0684	1.09E-01
351	0.00	0.000	0.005	0.0190	8.9539	4.6395	1.12E-01
352	0.00	0.000	0.002	0.0190	9.7333	5.0434	1.14E-01
353	26.60	0.000	2.049	0.1008	10.2572	5.3149	1.16E-01
354	0.00	0.000	5.930	0.0476	10.5459	5.4645	1.17E-01
355	0.20	0.000	6.203	0.0275	9.9579	5.1598	1.15E-01
356	3.20	0.000	4.921	0.0218	10.1272	5.2475	1.16E-01
357	0.10	0.000	0.459	0.0206	10.3670	5.3717	1.16E-01
358	0.00	0.000	0.406	0.0193	10.4723	5.4263	1.17E-01
359	0.00	0.000	0.058	0.0191	10.4040	5.3909	1.16E-01
360	0.00	0.000	0.014	0.0190	9.2403	4.7879	1.13E-01
361	1.80	0.000	0.519	0.0233	7.9678	4.1286	1.09E-01
362	35.60	0.000	1.292	0.0816	6.8888	3.5695	1.06E-01
363	6.90	0.000	5.471	0.0592	6.2905	3.2595	1.05E-01
364	0.00	0.000	6.190	0.0385	5.9560	3.0862	1.04E-01
365	4.40	0.000	6.478	0.0316	6.4581	3.3463	1.05E-01

* = Frozen (air or soil)

Annual Totals for Year 9			
	mm*	cubic meters	percent
Precipitation	1,103.20	11,032.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	297.906	2,979.1	27.00
Drainage Collected from Layer 2	799.0713	7,990.7	72.43
Percolation/Leakage through Layer 3	19.973709	199.7	1.81
Average Head on Top of Layer 3	4.3487 (cm)	---	---
Change in Water Storage	-13.7515	-137.5	-1.25
Soil Water at Start of Year	906.8065	9,068.1	82.20
Soil Water at End of Year	893.0550	8,930.6	80.95
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 10

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	3.273	0.0207		7.1528	3.7063	1.07E-01
2			0.00	0.000	0.410	0.0193		7.6611	3.9697	1.08E-01
3			0.00	0.000	0.085	0.0190		7.7006	3.9901	1.09E-01
4			0.00	0.000	0.011	0.0190		6.6859	3.4643	1.06E-01
5			0.00	0.000	0.004	0.0190		5.7589	2.9840	1.03E-01
6	*Note: head c		0.00	0.000	0.000	0.0190		4.9574	2.5687	1.01E-01
7			0.00	0.000	0.000	0.0190		4.2642	2.2096	9.87E-02
8			0.00	0.000	0.000	0.0190		3.6649	1.8990	9.70E-02
9			37.10	0.000	1.135	0.0818		3.1466	1.6305	9.55E-02
10			0.80	0.000	6.074	0.0378		2.9949	1.5519	9.50E-02
11			0.00	0.000	4.382	0.0193		3.1034	1.6081	9.53E-02
12			0.00	0.000	0.058	0.0191		3.8688	2.0046	9.75E-02
13			0.00	0.000	0.018	0.0190		4.9423	2.5609	1.01E-01
14			0.00	0.000	0.004	0.0190		5.7804	2.9952	1.03E-01
15			7.40	0.000	0.963	0.0405		6.3395	3.2849	1.05E-01
16			0.10	0.000	1.389	0.0362		5.7169	2.9623	1.03E-01
17			10.80	0.000	1.402	0.0675		4.9211	2.5499	1.01E-01
18			5.00	0.000	6.385	0.0523		4.2329	2.1933	9.86E-02
19			0.00	0.000	5.700	0.0333		4.1219	2.1358	9.83E-02
20			0.00	0.000	4.021	0.0192		3.9220	2.0322	9.77E-02
21			1.20	0.000	0.325	0.0221		3.3808	1.7518	9.61E-02

22	24.00	0.000	1.410	0.0974	2.9010	1.5032	9.48E-02
23	123.40	0.000	3.961	0.1221	2.6160	1.3555	9.39E-02
24	156.00	0.000	4.118	0.1313	2.2799	1.1813	9.30E-02
25	2.20	0.000	4.553	0.0451	2.7559	1.4280	9.43E-02
26	11.60	0.000	5.378	0.0654	12.2801	6.3631	1.22E-01
27	0.00	0.000	5.917	0.0442	21.8399	11.3166	1.49E-01
28	0.00	0.000	6.726	0.0218	27.0294	14.0055	1.64E-01
29	0.00	0.000	0.620	0.0190	31.2991	15.3827	1.77E-01
30	0.00	0.000	0.000	0.0190	38.4165	15.5593	1.97E-01
31	0.00	0.000	0.000	0.0190	39.2799	15.5608	2.00E-01
32	0.00	0.000	0.000	0.0190	37.7578	15.5582	1.95E-01
33	0.00	0.000	0.000	0.0190	32.6406	15.5094	1.80E-01
34	31.90	0.000	1.545	0.0941	28.9638	15.0079	1.70E-01
35	0.00	0.000	5.604	0.0441	27.3681	14.1810	1.65E-01
36	0.00	0.000	6.296	0.0209	24.2526	12.5667	1.56E-01
37	0.00	0.000	0.420	0.0190	23.3408	12.0943	1.54E-01
38	0.00	0.000	0.000	0.0190	22.7533	11.7898	1.52E-01
39	0.00	0.000	0.000	0.0190	22.0265	11.4132	1.50E-01
40	0.00	0.000	0.000	0.0190	21.1973	10.9835	1.47E-01
41	3.20	0.000	0.636	0.0275	20.3084	10.5230	1.45E-01
42	0.00	0.000	0.503	0.0259	19.3914	10.0478	1.42E-01
43	0.00	0.000	0.731	0.0234	18.4690	9.5699	1.40E-01
44	0.00	0.000	0.552	0.0216	17.5577	9.0977	1.37E-01
45	0.30	0.000	0.719	0.0202	16.6691	8.6372	1.34E-01
46	0.00	0.000	0.250	0.0194	15.6029	8.0848	1.31E-01
47	0.10	0.000	0.173	0.0191	13.5707	7.0318	1.25E-01
48	0.00	0.000	0.029	0.0190	11.7123	6.0688	1.20E-01
49	0.00	0.000	0.006	0.0190	10.1053	5.2361	1.16E-01
50	0.00	0.000	0.001	0.0190	8.7157	4.5161	1.11E-01

51	0.00	0.000	0.000	0.0190	7.5141	3.8935	1.08E-01
52	0.00	0.000	0.000	0.0190	6.4751	3.3551	1.05E-01
53	0.50	0.000	0.122	0.0203	5.5767	2.8896	1.02E-01
54	0.00	0.000	0.209	0.0196	4.7998	2.4871	1.00E-01
55	0.00	0.000	0.112	0.0192	4.1280	2.1390	9.83E-02
56	0.00	0.000	0.041	0.0191	3.5471	1.8380	9.66E-02
57	0.00	0.000	0.011	0.0190	3.0448	1.5777	9.52E-02
58	0.00	0.000	0.004	0.0190	2.6104	1.3526	9.39E-02
59	0.00	0.000	0.001	0.0190	2.2348	1.1580	9.28E-02
60	0.00	0.000	0.000	0.0190	1.9100	0.9897	9.19E-02
61	0.00	0.000	0.000	0.0190	1.6292	0.8442	9.11E-02
62	0.00	0.000	0.000	0.0190	1.3864	0.7184	9.04E-02
63	6.20	0.000	0.280	0.0387	1.1764	0.6095	8.98E-02
64	4.40	0.000	0.476	0.0518	0.9948	0.5155	8.93E-02
65	8.40	0.000	0.539	0.0651	0.8466	0.4387	8.88E-02
66	0.00	0.000	0.477	0.0571	0.7967	0.4128	8.87E-02
67	0.00	0.000	0.469	0.0555	1.4664	0.7598	9.06E-02
68	0.00	0.000	0.461	0.0540	1.8547	0.9610	9.17E-02
69	0.00	0.000	0.454	0.0525	1.5813	0.8194	9.10E-02
70	0.00	0.000	0.447	0.0510	1.3450	0.6969	9.03E-02
71	0.00	0.000	0.440	0.0495	1.1406	0.5910	8.97E-02
72	0.00	0.000	0.434	0.0481	0.9638	0.4994	8.92E-02
73	18.40	0.000	0.491	0.0927	0.8523	0.4416	8.89E-02
74	0.20	0.000	5.276	0.0493	0.8298	0.4300	8.88E-02
75	0.00	0.000	6.534	0.0275	1.0341	0.5359	8.94E-02
76	0.00	0.000	2.555	0.0190	2.1892	1.1343	9.27E-02
77	0.00	0.000	0.000	0.0190	3.1452	1.6297	9.55E-02
78	0.00	0.000	0.000	0.0190	2.8478	1.4756	9.46E-02
79	0.00	0.000	0.000	0.0190	2.4401	1.2644	9.34E-02

80	0.00	0.000	0.000	0.0190	2.0875	1.0817	9.24E-02
81	0.00	0.000	0.000	0.0190	1.7827	0.9237	9.15E-02
82	0.00	0.000	0.000	0.0190	1.5191	0.7871	9.08E-02
83	0.00	0.000	0.000	0.0190	1.2911	0.6690	9.01E-02
84	0.00	0.000	0.000	0.0190	1.0940	0.5669	8.95E-02
85	0.00	0.000	0.000	0.0190	0.9236	0.4786	8.91E-02
86	0.00	0.000	0.000	0.0190	0.7762	0.4022	8.86E-02
87	2.20	0.000	0.374	0.0251	0.6487	0.3362	8.83E-02
88	4.20	0.000	0.361	0.0379	0.5385	0.2791	8.79E-02
89	0.00	0.000	0.570	0.0360	0.4433	0.2297	8.77E-02
90	0.00	0.000	0.610	0.0339	0.3609	0.1870	8.74E-02
91	0.00	0.000	0.590	0.0320	0.2896	0.1501	8.72E-02
92	0.00	0.000	0.572	0.0301	0.2280	0.1181	8.71E-02
93	0.00	0.000	0.556	0.0282	0.1747	0.0905	8.69E-02
94	0.00	0.000	0.540	0.0264	0.1286	0.0667	8.68E-02
95	0.00	0.000	0.556	0.0246	0.0888	0.0460	8.67E-02
96	0.00	0.000	0.545	0.0228	0.0544	0.0282	8.66E-02
97	0.00	0.000	0.532	0.0210	0.0246	0.0127	8.65E-02
98	2.60	0.000	0.585	0.0277	0.0024	0.0011	2.77E-02
99	3.20	0.000	0.546	0.0365	0.0000	0.0000	0.00E+00
100	2.30	0.000	0.526	0.0425	0.0000	0.0000	0.00E+00
101	3.80	0.000	0.526	0.0534	0.0000	0.0000	0.00E+00
102	5.30	0.000	0.561	0.0629	0.0000	0.0000	0.00E+00
103	1.40	0.000	0.553	0.0613	0.1464	0.0758	8.68E-02
104	0.00	0.000	0.477	0.0575	0.7665	0.3972	8.86E-02
105	0.00	0.000	0.469	0.0555	0.8559	0.4435	8.89E-02
106	0.00	0.000	0.461	0.0539	0.7261	0.3762	8.85E-02
107	0.00	0.000	0.454	0.0524	0.6054	0.3137	8.81E-02
108	0.00	0.000	0.447	0.0509	0.5011	0.2596	8.78E-02

109	0.00	0.000	0.440	0.0495	0.4108	0.2129	8.76E-02
110	0.00	0.000	0.434	0.0480	0.3328	0.1725	8.74E-02
111	0.00	0.000	0.428	0.0466	0.2654	0.1375	8.72E-02
112	0.00	0.000	0.422	0.0452	0.2070	0.1073	8.70E-02
113	0.00	0.000	0.416	0.0438	0.1566	0.0811	8.68E-02
114	0.80	0.000	0.476	0.0449	0.1130	0.0585	8.67E-02
115	0.00	0.000	0.405	0.0420	0.1063	0.0551	8.67E-02
116	3.00	0.000	0.465	0.0505	0.1547	0.0801	8.68E-02
117	0.00	0.000	0.396	0.0492	0.1113	0.0577	8.67E-02
118	0.00	0.000	0.391	0.0479	0.0738	0.0382	8.66E-02
119	0.00	0.000	0.386	0.0457	0.0618	0.0320	8.66E-02
120	0.00	0.000	0.382	0.0436	0.1043	0.0541	8.67E-02
121	0.00	0.000	0.378	0.0418	0.1242	0.0644	8.68E-02
122	0.00	0.000	0.374	0.0400	0.1272	0.0659	8.68E-02
123	0.00	0.000	0.365	0.0388	0.1090	0.0565	8.67E-02
124	0.00	0.000	0.366	0.0376	0.0718	0.0372	8.66E-02
125	0.00	0.000	0.362	0.0364	0.0396	0.0205	8.65E-02
126	0.00	0.000	0.359	0.0352	0.0118	0.0060	7.31E-02
127	0.00	0.000	0.355	0.0340	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.352	0.0329	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.348	0.0317	0.0000	0.0000	0.00E+00
130	10.60	0.000	0.410	0.0657	0.0000	0.0000	0.00E+00
131	7.40	0.000	0.407	0.0611	0.0000	0.0000	0.00E+00
132	1.80	0.000	6.178	0.0455	0.1144	0.0593	4.35E-02
133	0.00	0.000	5.730	0.0264	0.9761	0.5058	8.92E-02
134	0.00	0.000	2.183	0.0191	1.9606	1.0159	9.20E-02
135	0.00	0.000	0.029	0.0190	1.7711	0.9177	9.15E-02
136	0.00	0.000	0.007	0.0190	1.5091	0.7820	9.07E-02
137	0.00	0.000	0.002	0.0190	1.2825	0.6645	9.01E-02

138	0.00	0.000	0.000	0.0190	1.0866	0.5630	8.95E-02
139	0.00	0.000	0.000	0.0190	0.9171	0.4752	8.90E-02
140	0.00	0.000	0.000	0.0190	0.7706	0.3993	8.86E-02
141	0.00	0.000	0.000	0.0190	0.6439	0.3337	8.83E-02
142	0.00	0.000	0.000	0.0190	0.5344	0.2769	8.79E-02
143	0.00	0.000	0.000	0.0190	0.4396	0.2278	8.77E-02
144	0.00	0.000	0.000	0.0190	0.3577	0.1854	8.74E-02
145	0.00	0.000	0.000	0.0190	0.2869	0.1487	8.72E-02
146	0.00	0.000	0.000	0.0190	0.2257	0.1169	8.70E-02
147	0.00	0.000	0.000	0.0190	0.1727	0.0895	8.69E-02
148	0.00	0.000	0.000	0.0190	0.1269	0.0658	8.68E-02
149	0.00	0.000	0.000	0.0190	0.0873	0.0452	8.67E-02
150	0.00	0.000	0.000	0.0190	0.0531	0.0275	8.66E-02
151	0.00	0.000	0.000	0.0190	0.0234	0.0121	8.65E-02
152	0.00	0.000	0.000	0.0190	0.0019	0.0009	2.41E-02
153	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
157	1.00	0.000	0.109	0.0220	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.215	0.0213	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.316	0.0202	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.266	0.0193	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.078	0.0191	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.011	0.0190	0.0000	0.0000	0.00E+00
163	0.10	0.000	0.094	0.0190	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
165	0.60	0.000	0.108	0.0207	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.188	0.0200	0.0000	0.0000	0.00E+00

167	5.00	0.000	0.328	0.0356	0.0000	0.0000	4.44E-07
168	2.20	0.000	0.377	0.0417	0.0000	0.0000	2.71E-07
169	0.10	0.000	0.442	0.0405	0.0000	0.0000	0.00E+00
170	15.40	0.000	0.451	0.0851	0.0000	0.0000	0.00E+00
171	1.00	0.000	0.483	0.0605	0.1880	0.0974	8.69E-02
172	0.10	0.000	0.463	0.0551	0.4383	0.2271	8.77E-02
173	0.00	0.000	0.405	0.0521	1.2468	0.6460	9.00E-02
174	0.00	0.000	0.400	0.0494	2.3106	1.1972	9.31E-02
175	0.00	0.000	0.396	0.0481	2.3534	1.2194	9.32E-02
176	0.00	0.000	0.391	0.0468	2.0126	1.0428	9.22E-02
177	0.00	0.000	0.386	0.0455	1.7179	0.8901	9.13E-02
178	0.20	0.000	0.446	0.0447	1.4630	0.7581	9.06E-02
179	3.40	0.000	0.445	0.0546	1.2427	0.6439	9.00E-02
180	0.00	0.000	0.374	0.0532	1.0521	0.5452	8.94E-02
181	0.00	0.000	0.370	0.0513	0.9076	0.4703	8.90E-02
182	0.00	0.000	0.366	0.0495	0.8353	0.4328	8.88E-02
183	0.00	0.000	0.362	0.0482	0.7170	0.3715	8.85E-02
184	0.10	0.000	0.411	0.0465	0.6209	0.3217	8.82E-02
185	0.00	0.000	0.355	0.0446	0.5694	0.2951	8.80E-02
186	5.00	0.000	0.419	0.0599	0.5008	0.2595	8.78E-02
187	0.00	0.000	0.348	0.0587	0.4106	0.2127	8.76E-02
188	0.10	0.000	0.397	0.0547	0.4705	0.2438	8.78E-02
189	1.30	0.000	0.410	0.0560	0.5361	0.2778	8.79E-02
190	0.10	0.000	0.391	0.0544	0.5273	0.2732	8.79E-02
191	0.00	0.000	0.336	0.0523	0.4885	0.2531	8.78E-02
192	0.00	0.000	0.333	0.0503	0.4935	0.2557	8.78E-02
193	0.00	0.000	0.330	0.0488	0.4665	0.2417	8.77E-02
194	0.00	0.000	0.328	0.0477	0.3878	0.2009	8.75E-02
195	0.10	0.000	0.378	0.0468	0.3129	0.1621	8.73E-02

196	0.00	0.000	0.322	0.0457	0.2481	0.1286	8.71E-02
197	0.00	0.000	0.320	0.0446	0.1921	0.0995	8.70E-02
198	0.00	0.000	0.317	0.0436	0.1437	0.0745	8.68E-02
199	0.00	0.000	0.315	0.0425	0.1018	0.0528	8.67E-02
200	0.00	0.000	0.312	0.0415	0.0656	0.0340	8.66E-02
201	6.00	0.000	0.381	0.0602	0.0343	0.0178	8.65E-02
202	26.40	0.000	0.379	0.0931	0.0187	0.0097	8.65E-02
203	0.00	0.000	5.275	0.0476	0.0016	0.0008	2.23E-02
204	0.00	0.000	5.102	0.0306	0.3447	0.1786	8.74E-02
205	1.70	0.000	3.891	0.0222	1.6055	0.8319	9.10E-02
206	0.00	0.000	0.720	0.0198	2.9345	1.5205	9.48E-02
207	0.00	0.000	0.182	0.0192	4.0456	2.0963	9.80E-02
208	0.20	0.000	0.244	0.0190	4.8556	2.5160	1.00E-01
209	0.00	0.000	0.011	0.0190	4.4533	2.3075	9.92E-02
210	0.10	0.000	0.103	0.0190	3.8284	1.9837	9.74E-02
211	0.00	0.000	0.001	0.0190	3.2880	1.7037	9.59E-02
212	0.00	0.000	0.000	0.0190	2.8207	1.4616	9.45E-02
213	0.00	0.000	0.000	0.0190	2.4167	1.2522	9.34E-02
214	33.00	0.000	0.921	0.0894	2.0673	1.0712	9.24E-02
215	8.60	0.000	4.187	0.0617	1.9384	1.0044	9.20E-02
216	0.00	0.000	5.068	0.0448	1.9188	0.9943	9.19E-02
217	0.00	0.000	5.181	0.0267	2.9471	1.5271	9.49E-02
218	0.00	0.000	2.310	0.0190	4.0922	2.1204	9.82E-02
219	0.00	0.000	0.005	0.0190	5.0291	2.6059	1.01E-01
220	0.00	0.000	0.001	0.0190	5.5848	2.8938	1.02E-01
221	0.10	0.000	0.100	0.0190	4.9328	2.5560	1.01E-01
222	0.00	0.000	0.000	0.0190	4.2430	2.1986	9.86E-02
223	0.00	0.000	0.000	0.0190	3.6466	1.8895	9.69E-02
224	7.60	0.000	0.644	0.0422	3.1308	1.6222	9.54E-02

225	0.40	0.000	1.062	0.0400	2.6848	1.3911	9.41E-02
226	0.00	0.000	0.992	0.0367	2.2991	1.1913	9.30E-02
227	0.00	0.000	0.839	0.0339	1.9656	1.0185	9.21E-02
228	0.10	0.000	0.956	0.0310	1.6773	0.8691	9.12E-02
229	0.00	0.000	0.848	0.0282	1.4279	0.7399	9.05E-02
230	0.00	0.000	0.801	0.0255	1.2123	0.6282	8.99E-02
231	0.00	0.000	0.762	0.0230	1.0259	0.5316	8.94E-02
232	0.00	0.000	0.752	0.0205	0.8646	0.4480	8.89E-02
233	0.00	0.000	0.446	0.0190	0.7252	0.3758	8.85E-02
234	0.10	0.000	0.100	0.0190	0.6047	0.3133	8.81E-02
235	0.00	0.000	0.000	0.0190	0.5004	0.2593	8.78E-02
236	0.00	0.000	0.000	0.0190	0.4103	0.2126	8.76E-02
237	0.00	0.000	0.000	0.0190	0.3324	0.1722	8.74E-02
238	0.00	0.000	0.000	0.0190	0.2650	0.1373	8.72E-02
239	0.00	0.000	0.000	0.0190	0.2067	0.1071	8.70E-02
240	0.10	0.000	0.100	0.0190	0.1563	0.0810	8.68E-02
241	0.00	0.000	0.000	0.0190	0.1127	0.0584	8.67E-02
242	0.00	0.000	0.000	0.0190	0.0750	0.0389	8.66E-02
243	0.40	0.000	0.122	0.0199	0.0424	0.0220	8.65E-02
244	0.00	0.000	0.044	0.0198	0.0143	0.0072	8.11E-02
245	0.00	0.000	0.151	0.0193	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.056	0.0191	0.0000	0.0000	0.00E+00
247	0.60	0.000	0.142	0.0206	0.0000	0.0000	0.00E+00
248	0.10	0.000	0.266	0.0201	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.174	0.0195	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.110	0.0191	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.026	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	3.45E-07
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	1.00	0.000	0.108	0.0220	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.144	0.0215	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.198	0.0208	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.228	0.0201	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.212	0.0194	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.087	0.0191	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.020	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.20	0.000	0.100	0.0193	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.026	0.0192	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.053	0.0191	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.018	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	5.20	0.000	0.206	0.0356	0.0000	0.0000	0.00E+00
294	0.20	0.000	0.274	0.0354	0.0000	0.0000	0.00E+00
295	10.80	0.000	0.324	0.0703	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.293	0.0548	0.0000	0.0000	0.00E+00
297	1.00	0.000	0.374	0.0556	0.4229	0.2191	8.76E-02
298	4.40	0.000	0.372	0.0622	1.1507	0.5962	8.97E-02
299	0.10	0.000	0.346	0.0561	1.1617	0.6019	8.97E-02
300	0.40	0.000	0.368	0.0544	1.6295	0.8443	9.11E-02
301	0.00	0.000	0.284	0.0522	1.6656	0.8630	9.12E-02
302	0.00	0.000	0.282	0.0496	1.5287	0.7921	9.08E-02
303	0.00	0.000	0.281	0.0474	1.4208	0.7362	9.05E-02
304	0.00	0.000	0.279	0.0455	1.2929	0.6699	9.01E-02
305	0.00	0.000	0.277	0.0439	1.1612	0.6017	8.97E-02
306	1.40	0.000	0.361	0.0473	1.0160	0.5265	8.93E-02
307	1.00	0.000	0.360	0.0495	0.8561	0.4436	8.89E-02
308	0.60	0.000	0.359	0.0503	0.7179	0.3720	8.85E-02
309	0.40	0.000	0.357	0.0503	0.5983	0.3100	8.81E-02
310	0.00	0.000	0.269	0.0491	0.5087	0.2636	8.79E-02
311	0.00	0.000	0.268	0.0478	0.4524	0.2344	8.77E-02

312	0.00	0.000	0.266	0.0465	0.3933	0.2038	8.75E-02
313	0.00	0.000	0.265	0.0454	0.3499	0.1813	8.74E-02
314	0.00	0.000	0.264	0.0445	0.2856	0.1480	8.72E-02
315	1.60	0.000	0.353	0.0487	0.2245	0.1163	8.70E-02
316	0.00	0.000	0.261	0.0476	0.1784	0.0924	8.69E-02
317	0.00	0.000	0.259	0.0466	0.1449	0.0751	8.68E-02
318	0.00	0.000	0.258	0.0457	0.1111	0.0576	8.67E-02
319	0.00	0.000	0.257	0.0447	0.0768	0.0398	8.66E-02
320	0.40	0.000	0.347	0.0448	0.0600	0.0311	8.66E-02
321	0.00	0.000	0.254	0.0438	0.0375	0.0194	8.65E-02
322	0.00	0.000	0.253	0.0426	0.0258	0.0134	8.65E-02
323	0.00	0.000	0.252	0.0415	0.0239	0.0124	8.65E-02
324	0.00	0.000	0.250	0.0405	0.0181	0.0094	8.65E-02
325	0.00	0.000	0.249	0.0394	0.0092	0.0048	8.64E-02
326	0.00	0.000	0.226	0.0386	0.0013	0.0006	4.16E-02
327	0.20	0.000	0.332	0.0381	0.0000	0.0000	0.00E+00
328	4.20	0.000	0.344	0.0510	0.0000	0.0000	0.00E+00
329	0.40	0.000	0.341	0.0512	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.244	0.0503	0.0012	0.0005	1.67E-02
331	0.00	0.000	0.242	0.0493	0.0014	0.0007	1.97E-02
332	0.00	0.000	0.241	0.0483	0.0058	0.0028	5.39E-02
333	0.20	0.000	0.327	0.0476	0.0108	0.0056	8.64E-02
334	11.20	0.000	0.340	0.0738	0.0086	0.0044	6.76E-02
335	0.80	0.000	0.340	0.0560	0.0000	0.0000	0.00E+00
336	3.80	0.000	0.339	0.0596	0.3762	0.1949	8.75E-02
337	0.80	0.000	0.339	0.0577	1.4266	0.7392	9.05E-02
338	0.00	0.000	0.235	0.0552	2.1838	1.1316	9.27E-02
339	0.00	0.000	0.234	0.0530	2.7113	1.4049	9.42E-02
340	0.00	0.000	0.233	0.0504	2.4595	1.2744	9.35E-02

341	0.00	0.000	0.232	0.0482	2.2355	1.1583	9.28E-02
342	0.00	0.000	0.231	0.0463	2.0109	1.0420	9.22E-02
343	0.00	0.000	0.230	0.0446	1.7953	0.9302	9.16E-02
344	0.00	0.000	0.229	0.0432	1.5940	0.8259	9.10E-02
345	0.00	0.000	0.228	0.0418	1.4091	0.7301	9.05E-02
346	0.00	0.000	0.208	0.0407	1.2416	0.6433	9.00E-02
347	0.00	0.000	0.227	0.0399	1.0674	0.5531	8.95E-02
348	0.00	0.000	0.226	0.0392	0.9005	0.4666	8.90E-02
349	0.00	0.000	0.225	0.0384	0.7563	0.3919	8.86E-02
350	0.00	0.000	0.224	0.0377	0.6315	0.3272	8.82E-02
351	0.00	0.000	0.223	0.0369	0.5236	0.2713	8.79E-02
352	0.00	0.000	0.222	0.0362	0.4304	0.2230	8.76E-02
353	0.00	0.000	0.221	0.0354	0.3497	0.1812	8.74E-02
354	0.00	0.000	0.221	0.0347	0.2800	0.1451	8.72E-02
355	0.00	0.000	0.220	0.0340	0.2197	0.1138	8.70E-02
356	0.00	0.000	0.219	0.0332	0.1675	0.0868	8.69E-02
357	0.10	0.000	0.284	0.0326	0.1224	0.0634	8.68E-02
358	58.70	0.000	0.330	0.1102	0.0882	0.0457	8.67E-02
359	0.00	0.000	6.407	0.0378	0.0923	0.0478	8.67E-02
360	0.00	0.000	5.654	0.0190	0.8838	0.4579	8.89E-02
361	0.00	0.000	0.000	0.0190	2.8584	1.4811	9.46E-02
362	0.00	0.000	0.000	0.0190	4.4574	2.3097	9.92E-02
363	0.00	0.000	0.000	0.0190	5.6909	2.9488	1.03E-01
364	0.00	0.000	0.000	0.0190	6.6273	3.4340	1.05E-01
365	7.60	0.000	0.997	0.0410	7.3227	3.7943	1.07E-01

* = Frozen (air or soil)

Annual Totals for Year 10			
	mm*	cubic meters	percent
Precipitation	739.80	7,398.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	230.580	2,305.8	31.17
Drainage Collected from Layer 2	482.0618	4,820.6	65.16
Percolation/Leakage through Layer 3	26.649724	266.5	3.60
Average Head on Top of Layer 3	2.6302 (cm)	---	---
Change in Water Storage	0.5082	5.0818	0.07
Soil Water at Start of Year	893.0550	8,930.6	120.72
Soil Water at End of Year	893.5632	8,935.6	120.78
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 11

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	1.332	0.0366		7.8228	4.0535	1.09E-01
2			0.00	0.000	1.246	0.0324		7.9968	4.1436	1.09E-01
3			0.00	0.000	1.165	0.0285		7.0136	3.6342	1.07E-01
4			0.00	0.000	0.902	0.0255		6.0423	3.1309	1.04E-01
5			0.00	0.000	0.984	0.0223		5.2024	2.6957	1.01E-01
6	*Note: head c		0.00	0.000	0.727	0.0198		4.4762	2.3194	9.93E-02
7			0.00	0.000	0.249	0.0190		3.8482	1.9940	9.75E-02
8			0.00	0.000	0.000	0.0190		3.3051	1.7126	9.59E-02
9			72.00	0.000	0.866	0.1165		2.8487	1.4761	9.46E-02
10			3.40	0.000	4.851	0.0463		2.4980	1.2944	9.36E-02
11			34.00	0.000	4.737	0.0892		3.0437	1.5771	9.52E-02
12			64.80	0.000	3.672	0.0941		4.2410	2.1975	9.86E-02
13			44.80	0.000	4.963	0.0910		3.6691	1.9012	9.70E-02
14			0.00	0.000	5.907	0.0461		3.4921	1.8094	9.65E-02
15			3.10	0.000	5.689	0.0374		7.2704	3.7672	1.07E-01
16			1.10	0.000	5.608	0.0224		12.0067	6.2214	1.21E-01
17			0.00	0.000	0.908	0.0193		15.1524	7.8513	1.30E-01
18			0.70	0.000	0.664	0.0194		17.1982	8.9114	1.36E-01
19			2.20	0.000	1.446	0.0219		18.4470	9.5585	1.40E-01
20			14.70	0.000	4.688	0.0553		19.1124	9.9032	1.41E-01
21			1.40	0.000	5.348	0.0422		19.3522	10.0275	1.42E-01

22	2.20	0.000	6.516	0.0278	19.2831	9.9917	1.42E-01
23	1.80	0.000	3.325	0.0220	18.9691	9.8290	1.41E-01
24	5.00	0.000	2.197	0.0313	18.5012	9.5866	1.40E-01
25	54.20	0.000	2.176	0.1120	17.9716	9.3121	1.38E-01
26	63.40	0.000	2.567	0.0970	16.6613	8.6332	1.34E-01
27	142.90	0.000	3.315	0.1263	14.3848	7.4536	1.28E-01
28	14.00	0.000	4.923	0.0699	12.4611	6.4569	1.22E-01
29	0.40	0.000	3.909	0.0481	18.9735	9.8313	1.41E-01
30	2.00	0.000	5.869	0.0352	26.8428	13.9089	1.64E-01
31	0.00	0.000	4.697	0.0196	44.1099	15.5691	2.13E-01
32	0.00	0.000	0.130	0.0191	53.3611	15.5851	2.40E-01
33	0.00	0.000	0.033	0.0190	57.8693	15.5929	2.53E-01
34	0.00	0.000	0.008	0.0190	59.0268	15.5949	2.56E-01
35	0.30	0.000	0.302	0.0190	57.7043	15.5926	2.53E-01
36	1.00	0.000	0.235	0.0216	54.4818	15.5871	2.43E-01
37	0.00	0.000	0.556	0.0197	49.7639	15.5789	2.30E-01
38	0.00	0.000	0.155	0.0192	43.8440	15.5687	2.13E-01
39	1.00	0.000	0.201	0.0218	36.9414	15.5568	1.93E-01
40	0.00	0.000	0.466	0.0203	29.0409	15.0478	1.70E-01
41	0.00	0.000	0.258	0.0194	27.1574	14.0719	1.65E-01
42	0.00	0.000	0.098	0.0191	25.3665	13.1439	1.59E-01
43	0.00	0.000	0.024	0.0190	23.6819	12.2710	1.55E-01
44	0.00	0.000	0.006	0.0190	22.1059	11.4544	1.50E-01
45	0.00	0.000	0.002	0.0190	20.6380	10.6938	1.46E-01
46	0.40	0.000	0.121	0.0199	19.2665	9.9831	1.42E-01
47	2.40	0.000	0.360	0.0267	17.0567	8.8381	1.36E-01
48	8.20	0.000	0.524	0.0523	14.7267	7.6308	1.29E-01
49	0.00	0.000	0.610	0.0503	12.7119	6.5868	1.23E-01
50	0.00	0.000	0.647	0.0481	10.9697	5.6841	1.18E-01

51	0.00	0.000	0.627	0.0460	9.4639	4.9038	1.14E-01
52	0.00	0.000	0.609	0.0440	8.1611	4.2287	1.10E-01
53	3.60	0.000	0.652	0.0538	7.0345	3.6450	1.07E-01
54	0.00	0.000	0.577	0.0519	6.0604	3.1403	1.04E-01
55	3.20	0.000	0.621	0.0602	5.2315	2.7108	1.01E-01
56	7.20	0.000	0.607	0.0633	4.5981	2.3826	9.96E-02
57	0.00	0.000	6.934	0.0378	4.1082	2.1287	9.82E-02
58	0.00	0.000	0.537	0.0360	4.3882	2.2738	9.90E-02
59	0.00	0.000	0.526	0.0342	4.3296	2.2434	9.89E-02
60	0.50	0.000	0.570	0.0340	3.7215	1.9283	9.71E-02
61	0.00	0.000	0.505	0.0323	3.1956	1.6558	9.56E-02
62	0.00	0.000	0.461	0.0308	2.7408	1.4202	9.43E-02
63	0.00	0.000	0.479	0.0292	2.3476	1.2164	9.32E-02
64	0.00	0.000	0.476	0.0276	2.0075	1.0402	9.22E-02
65	4.40	0.000	0.522	0.0405	1.7135	0.8879	9.13E-02
66	46.40	0.000	0.514	0.1072	1.4811	0.7674	9.07E-02
67	2.80	0.000	5.841	0.0454	1.3126	0.6801	9.02E-02
68	0.60	0.000	6.233	0.0266	2.0204	1.0469	9.22E-02
69	13.40	0.000	5.080	0.0544	3.6637	1.8984	9.69E-02
70	0.20	0.000	4.465	0.0401	4.9851	2.5831	1.01E-01
71	0.00	0.000	6.074	0.0199	6.0001	3.1090	1.04E-01
72	1.00	0.000	0.908	0.0202	6.7654	3.5055	1.06E-01
73	0.00	0.000	0.270	0.0193	7.3276	3.7969	1.08E-01
74	0.60	0.000	0.646	0.0192	7.4278	3.8488	1.08E-01
75	0.00	0.000	0.029	0.0191	6.4573	3.3459	1.05E-01
76	0.00	0.000	0.013	0.0190	5.5613	2.8816	1.02E-01
77	0.00	0.000	0.004	0.0190	4.7865	2.4801	1.00E-01
78	0.00	0.000	0.001	0.0190	4.1165	2.1330	9.83E-02
79	25.40	0.000	1.149	0.0998	3.5371	1.8328	9.66E-02

80	17.00	0.000	3.808	0.0787	3.1069	1.6099	9.53E-02
81	34.00	0.000	5.312	0.0915	2.7887	1.4450	9.44E-02
82	0.20	0.000	3.413	0.0534	2.4007	1.2439	9.33E-02
83	0.00	0.000	6.012	0.0333	2.6561	1.3763	9.40E-02
84	0.00	0.000	4.294	0.0190	4.3039	2.2301	9.88E-02
85	0.00	0.000	0.000	0.0190	5.7633	2.9863	1.03E-01
86	2.40	0.000	1.557	0.0218	6.8686	3.5590	1.06E-01
87	0.00	0.000	0.589	0.0198	7.6881	3.9837	1.09E-01
88	3.60	0.000	2.019	0.0251	8.2774	4.2890	1.10E-01
89	7.20	0.000	1.518	0.0441	8.6815	4.4984	1.11E-01
90	6.00	0.000	4.901	0.0477	8.9314	4.6279	1.12E-01
91	18.60	0.000	6.412	0.0817	8.1347	4.2151	1.10E-01
92	1.00	0.000	6.173	0.0443	7.0395	3.6476	1.07E-01
93	0.80	0.000	6.378	0.0257	6.3480	3.2893	1.05E-01
94	18.60	0.000	5.577	0.0674	6.7407	3.4927	1.06E-01
95	62.80	0.000	6.627	0.0937	6.5444	3.3910	1.05E-01
96	1.00	0.000	5.498	0.0516	5.7287	2.9684	1.03E-01
97	5.00	0.000	4.853	0.0521	5.3461	2.7701	1.02E-01
98	38.00	0.000	4.572	0.0982	6.7131	3.4784	1.06E-01
99	33.50	0.000	3.989	0.0927	6.7740	3.5100	1.06E-01
100	0.60	0.000	4.316	0.0427	5.8351	3.0235	1.03E-01
101	93.30	0.000	5.310	0.1174	5.9983	3.1081	1.04E-01
102	4.60	0.000	6.085	0.0515	6.4495	3.3419	1.05E-01
103	0.00	0.000	5.472	0.0322	10.0258	5.1950	1.15E-01
104	0.30	0.000	4.172	0.0193	14.6490	7.5905	1.29E-01
105	1.10	0.000	0.689	0.0207	17.5767	9.1075	1.37E-01
106	0.10	0.000	0.499	0.0193	19.3976	10.0510	1.42E-01
107	0.80	0.000	0.573	0.0201	20.4273	10.5846	1.45E-01
108	1.60	0.000	0.973	0.0222	20.8877	10.8231	1.47E-01

109	16.80	0.000	4.247	0.0640	20.9386	10.8495	1.47E-01
110	0.00	0.000	3.341	0.0529	20.6975	10.7246	1.46E-01
111	1.40	0.000	3.801	0.0449	20.2510	10.4932	1.45E-01
112	1.80	0.000	4.329	0.0364	19.6637	10.1889	1.43E-01
113	5.10	0.000	5.948	0.0336	18.9839	9.8367	1.41E-01
114	0.10	0.000	3.726	0.0215	18.2474	9.4551	1.39E-01
115	0.00	0.000	0.645	0.0194	17.4810	9.0579	1.37E-01
116	0.00	0.000	0.086	0.0191	16.7044	8.6556	1.35E-01
117	0.00	0.000	0.021	0.0190	15.9322	8.2554	1.32E-01
118	0.00	0.000	0.006	0.0190	14.9766	7.7603	1.30E-01
119	1.40	0.000	0.153	0.0232	13.0325	6.7529	1.24E-01
120	8.60	0.000	0.783	0.0492	11.2469	5.8277	1.19E-01
121	9.10	0.000	0.964	0.0624	9.7029	5.0277	1.14E-01
122	0.10	0.000	0.976	0.0518	8.4044	4.3548	1.11E-01
123	0.00	0.000	0.857	0.0473	7.9555	4.1222	1.09E-01
124	0.20	0.000	0.878	0.0450	7.8360	4.0603	1.09E-01
125	0.10	0.000	0.831	0.0426	6.8381	3.5432	1.06E-01
126	7.60	0.000	0.804	0.0649	5.8905	3.0522	1.03E-01
127	1.40	0.000	5.249	0.0483	5.1433	2.6651	1.01E-01
128	0.10	0.000	0.766	0.0449	4.6895	2.4299	9.99E-02
129	0.00	0.000	0.694	0.0426	4.1062	2.1277	9.82E-02
130	0.00	0.000	0.604	0.0402	3.5526	1.8408	9.66E-02
131	0.00	0.000	0.647	0.0381	3.0571	1.5840	9.52E-02
132	0.00	0.000	0.627	0.0360	2.6210	1.3581	9.39E-02
133	3.20	0.000	0.663	0.0444	2.2440	1.1628	9.29E-02
134	6.80	0.000	0.646	0.0649	1.9180	0.9938	9.19E-02
135	0.00	0.000	4.487	0.0441	1.7018	0.8818	9.13E-02
136	0.00	0.000	4.635	0.0265	1.9314	1.0008	9.20E-02
137	0.00	0.000	2.176	0.0192	1.7286	0.8957	9.14E-02

138	4.20	0.000	0.983	0.0299	1.4723	0.7629	9.06E-02
139	0.00	0.000	1.104	0.0262	1.2507	0.6481	9.00E-02
140	0.00	0.000	1.123	0.0225	1.0591	0.5488	8.94E-02
141	0.00	0.000	0.965	0.0193	0.8934	0.4629	8.90E-02
142	0.10	0.000	0.173	0.0190	0.7501	0.3887	8.86E-02
143	0.90	0.000	0.154	0.0215	0.6262	0.3244	8.82E-02
144	1.70	0.000	0.445	0.0257	0.5190	0.2689	8.79E-02
145	0.10	0.000	0.412	0.0247	0.4264	0.2209	8.76E-02
146	0.00	0.000	0.556	0.0228	0.3462	0.1794	8.74E-02
147	0.50	0.000	0.638	0.0224	0.2770	0.1435	8.72E-02
148	2.60	0.000	0.674	0.0288	0.2171	0.1125	8.70E-02
149	0.00	0.000	0.543	0.0270	0.1653	0.0856	8.69E-02
150	0.00	0.000	0.477	0.0254	0.1205	0.0624	8.67E-02
151	0.00	0.000	0.453	0.0239	0.0817	0.0424	8.66E-02
152	0.00	0.000	0.407	0.0225	0.0482	0.0250	8.65E-02
153	0.00	0.000	0.480	0.0209	0.0193	0.0100	8.65E-02
154	0.00	0.000	0.466	0.0194	0.0008	0.0002	1.10E-02
155	0.00	0.000	0.083	0.0191	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.020	0.0190	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.005	0.0190	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
159	0.20	0.000	0.102	0.0193	0.0000	0.0000	0.00E+00
160	0.60	0.000	0.104	0.0210	0.0000	0.0000	0.00E+00
161	8.80	0.000	0.405	0.0490	0.0000	0.0000	0.00E+00
162	1.20	0.000	0.520	0.0512	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.495	0.0496	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.486	0.0480	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.477	0.0464	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.469	0.0447	0.0003	0.0000	3.72E-03

167	0.00	0.000	0.461	0.0431	0.0030	0.0015	4.82E-02
168	0.00	0.000	0.454	0.0416	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.447	0.0401	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.440	0.0386	0.0000	0.0000	0.00E+00
171	2.00	0.000	0.496	0.0436	0.0000	0.0000	0.00E+00
172	0.60	0.000	0.490	0.0440	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.422	0.0426	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.416	0.0411	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.411	0.0397	0.0019	0.0008	3.02E-02
176	0.10	0.000	0.456	0.0385	0.0000	0.0000	0.00E+00
177	0.10	0.000	0.451	0.0374	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.396	0.0359	0.0009	0.0004	3.10E-02
179	0.00	0.000	0.367	0.0346	0.0013	0.0006	3.95E-02
180	0.00	0.000	0.377	0.0333	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.382	0.0321	0.0000	0.0000	0.00E+00
182	0.10	0.000	0.429	0.0310	0.0000	0.0000	0.00E+00
183	0.10	0.000	0.425	0.0299	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.358	0.0287	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.361	0.0275	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.361	0.0263	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.359	0.0251	0.0000	0.0000	0.00E+00
188	0.10	0.000	0.407	0.0241	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.344	0.0229	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.346	0.0218	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.345	0.0206	0.0000	0.0000	0.00E+00
192	0.10	0.000	0.395	0.0196	0.0000	0.0000	0.00E+00
193	0.10	0.000	0.256	0.0191	0.0000	0.0000	0.00E+00
194	14.20	0.000	0.296	0.0655	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.304	0.0591	0.0180	0.0093	2.17E-02

196	0.40	0.000	0.400	0.0559	0.3171	0.1643	8.73E-02
197	14.40	0.000	0.398	0.0830	0.6459	0.3347	8.83E-02
198	2.60	0.000	4.047	0.0592	0.5611	0.2908	8.80E-02
199	0.00	0.000	5.242	0.0386	0.7247	0.3755	8.85E-02
200	0.00	0.000	5.097	0.0216	1.7275	0.8951	9.14E-02
201	0.00	0.000	0.792	0.0190	2.8855	1.4952	9.47E-02
202	1.80	0.000	0.536	0.0232	2.8314	1.4671	9.46E-02
203	0.00	0.000	0.571	0.0213	2.4259	1.2570	9.34E-02
204	0.00	0.000	0.567	0.0194	2.0753	1.0753	9.24E-02
205	0.10	0.000	0.194	0.0191	1.7721	0.9182	9.15E-02
206	0.00	0.000	0.024	0.0190	1.5099	0.7824	9.07E-02
207	0.00	0.000	0.006	0.0190	1.2832	0.6649	9.01E-02
208	0.10	0.000	0.102	0.0190	1.0872	0.5633	8.95E-02
209	0.00	0.000	0.000	0.0190	0.9176	0.4755	8.90E-02
210	0.10	0.000	0.100	0.0190	0.7711	0.3995	8.86E-02
211	0.10	0.000	0.100	0.0190	0.6443	0.3339	8.83E-02
212	0.00	0.000	0.000	0.0190	0.5347	0.2771	8.79E-02
213	0.60	0.000	0.131	0.0206	0.4399	0.2280	8.77E-02
214	0.00	0.000	0.280	0.0196	0.3580	0.1855	8.74E-02
215	0.00	0.000	0.141	0.0192	0.2871	0.1488	8.72E-02
216	0.10	0.000	0.136	0.0190	0.2258	0.1170	8.70E-02
217	0.00	0.000	0.009	0.0190	0.1729	0.0896	8.69E-02
218	0.00	0.000	0.002	0.0190	0.1270	0.0658	8.68E-02
219	0.00	0.000	0.001	0.0190	0.0874	0.0453	8.67E-02
220	0.00	0.000	0.000	0.0190	0.0532	0.0275	8.66E-02
221	0.00	0.000	0.000	0.0190	0.0235	0.0122	8.65E-02
222	0.00	0.000	0.000	0.0190	0.0019	0.0009	2.44E-02
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.10	0.000	0.095	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.10	0.000	0.093	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
233	0.40	0.000	0.113	0.0200	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.042	0.0198	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.137	0.0194	0.0000	0.0000	0.00E+00
236	0.10	0.000	0.135	0.0193	0.0000	0.0000	0.00E+00
237	0.10	0.000	0.101	0.0193	0.0000	0.0000	0.00E+00
238	0.10	0.000	0.092	0.0193	0.0000	0.0000	4.11E-06
239	0.00	0.000	0.035	0.0192	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.034	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.010	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	11.00	0.000	0.328	0.0546	0.0000	0.0000	0.00E+00
246	40.00	0.000	0.448	0.1042	0.0000	0.0000	0.00E+00
247	3.40	0.000	6.341	0.0490	0.0095	0.0049	2.16E-02
248	0.00	0.000	6.179	0.0279	1.0468	0.5424	8.94E-02
249	0.00	0.000	2.653	0.0191	2.7604	1.4303	9.43E-02
250	0.00	0.000	0.016	0.0190	4.1486	2.1496	9.83E-02
251	0.00	0.000	0.004	0.0190	5.2282	2.7091	1.01E-01
252	0.00	0.000	0.001	0.0190	6.0551	3.1375	1.04E-01
253	0.00	0.000	0.000	0.0190	6.6929	3.4680	1.06E-01

254	0.00	0.000	0.000	0.0190	6.3203	3.2749	1.05E-01
255	0.00	0.000	0.000	0.0190	5.4428	2.8202	1.02E-01
256	0.00	0.000	0.000	0.0190	4.6840	2.4271	9.99E-02
257	0.00	0.000	0.000	0.0190	4.0279	2.0871	9.80E-02
258	0.00	0.000	0.000	0.0190	3.4605	1.7931	9.64E-02
259	0.00	0.000	0.000	0.0190	2.9699	1.5389	9.50E-02
260	0.00	0.000	0.000	0.0190	2.5457	1.3191	9.37E-02
261	0.00	0.000	0.000	0.0190	2.1789	1.1290	9.27E-02
262	0.00	0.000	0.000	0.0190	1.8617	0.9646	9.18E-02
263	1.80	0.000	0.377	0.0237	1.5874	0.8225	9.10E-02
264	0.00	0.000	0.290	0.0228	1.3502	0.6996	9.03E-02
265	0.10	0.000	0.505	0.0214	1.1451	0.5933	8.97E-02
266	2.40	0.000	0.511	0.0277	0.9677	0.5014	8.92E-02
267	3.80	0.000	0.430	0.0390	0.8144	0.4220	8.87E-02
268	0.20	0.000	0.593	0.0376	0.6818	0.3533	8.84E-02
269	0.00	0.000	0.544	0.0358	0.5671	0.2938	8.80E-02
270	0.00	0.000	0.527	0.0341	0.4680	0.2425	8.77E-02
271	0.00	0.000	0.516	0.0324	0.3823	0.1981	8.75E-02
272	0.00	0.000	0.504	0.0307	0.3081	0.1597	8.73E-02
273	0.00	0.000	0.511	0.0290	0.2440	0.1264	8.71E-02
274	0.00	0.000	0.509	0.0273	0.1886	0.0977	8.69E-02
275	0.00	0.000	0.498	0.0256	0.1406	0.0729	8.68E-02
276	0.00	0.000	0.489	0.0240	0.0992	0.0514	8.67E-02
277	0.00	0.000	0.479	0.0224	0.0633	0.0328	8.66E-02
278	0.00	0.000	0.470	0.0208	0.0323	0.0167	8.65E-02
279	0.00	0.000	0.385	0.0195	0.0064	0.0032	5.14E-02
280	0.00	0.000	0.161	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.60	0.000	0.123	0.0206	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.181	0.0200	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.237	0.0192	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.049	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.008	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
291	8.20	0.000	0.255	0.0455	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.325	0.0444	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.378	0.0431	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.378	0.0419	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.382	0.0406	0.0000	0.0000	0.00E+00
296	0.10	0.000	0.438	0.0395	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.374	0.0382	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.370	0.0370	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.366	0.0358	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.362	0.0346	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.359	0.0334	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.355	0.0322	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.352	0.0310	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.348	0.0299	0.0000	0.0000	0.00E+00
305	0.10	0.000	0.408	0.0288	0.0000	0.0000	5.96E-04
306	0.00	0.000	0.338	0.0277	0.0000	0.0000	4.08E-04
307	0.00	0.000	0.338	0.0266	0.0000	0.0000	5.70E-04
308	1.00	0.000	0.435	0.0285	0.0001	0.0000	7.38E-04
309	0.00	0.000	0.333	0.0273	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.330	0.0262	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.328	0.0252	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.322	0.0241	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.300	0.0231	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.314	0.0220	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.317	0.0210	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.315	0.0199	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.278	0.0190	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
337	0.10	0.000	0.088	0.0190	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
340	6.80	0.000	0.221	0.0409	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.220	0.0402	0.0000	0.0000	8.55E-08
342	8.80	0.000	0.350	0.0684	0.0000	0.0000	0.00E+00
343	2.40	0.000	0.372	0.0626	0.0124	0.0064	2.16E-02
344	15.50	0.000	0.371	0.0857	0.4468	0.2315	8.77E-02
345	0.20	0.000	0.353	0.0532	0.5301	0.2747	8.79E-02
346	0.00	0.000	0.261	0.0519	0.6798	0.3523	8.84E-02
347	0.00	0.000	0.259	0.0495	1.7870	0.9259	9.15E-02
348	0.00	0.000	0.258	0.0485	2.9716	1.5397	9.50E-02
349	0.10	0.000	0.322	0.0478	4.0098	2.0777	9.79E-02
350	0.00	0.000	0.255	0.0469	4.1966	2.1745	9.85E-02
351	0.00	0.000	0.254	0.0461	3.6064	1.8687	9.68E-02
352	0.60	0.000	0.364	0.0469	3.0961	1.6043	9.53E-02
353	0.00	0.000	0.252	0.0460	2.6548	1.3756	9.40E-02
354	0.00	0.000	0.250	0.0452	2.2732	1.1779	9.29E-02
355	0.00	0.000	0.249	0.0444	1.9432	1.0069	9.20E-02
356	0.20	0.000	0.342	0.0439	1.6579	0.8590	9.12E-02
357	2.20	0.000	0.362	0.0500	1.4111	0.7312	9.05E-02
358	0.40	0.000	0.357	0.0502	1.1978	0.6207	8.98E-02
359	0.00	0.000	0.245	0.0490	1.0266	0.5320	8.94E-02
360	0.00	0.000	0.244	0.0475	0.9010	0.4669	8.90E-02
361	0.00	0.000	0.242	0.0463	0.8010	0.4150	8.87E-02
362	0.10	0.000	0.309	0.0452	0.7001	0.3628	8.84E-02
363	0.00	0.000	0.240	0.0441	0.6132	0.3177	8.82E-02
364	1.00	0.000	0.357	0.0460	0.5331	0.2762	8.79E-02
365	15.00	0.000	0.357	0.0854	0.4443	0.2302	8.77E-02

* = Frozen (air or soil)

Annual Totals for Year 11			
	mm*	cubic meters	percent
Precipitation	1,252.30	12,523.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	397.766	3,977.7	31.76
Drainage Collected from Layer 2	846.8268	8,468.3	67.62
Percolation/Leakage through Layer 3	25.594767	255.9	2.04
Average Head on Top of Layer 3	4.9884 (cm)	---	---
Change in Water Storage	-17.8874	-178.9	-1.43
Soil Water at Start of Year	893.5632	8,935.6	71.35
Soil Water at End of Year	875.6757	8,756.8	69.93
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 12

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1	*Note: head c		9.60	0.000	4.934	0.0628	0.3618	0.1875	8.74E-02	
2		0.00	0.000	5.706	0.0407	0.4250	0.2202	8.76E-02		
3		3.60	0.000	5.364	0.0336	1.1981	0.6208	8.98E-02		
4		0.00	0.000	4.115	0.0198	2.3737	1.2300	9.32E-02		
5		1.40	0.000	0.745	0.0220	3.4272	1.7758	9.63E-02		
6		0.00	0.000	0.651	0.0199	3.2403	1.6790	9.57E-02		
7		0.00	0.000	0.190	0.0192	2.7795	1.4402	9.44E-02		
8		0.00	0.000	0.049	0.0191	2.3811	1.2338	9.33E-02		
9		0.00	0.000	0.014	0.0190	2.0366	1.0553	9.23E-02		
10		0.00	0.000	0.003	0.0190	1.7388	0.9010	9.14E-02		
11		0.00	0.000	0.001	0.0190	1.4811	0.7675	9.07E-02		
12		0.00	0.000	0.000	0.0190	1.2583	0.6520	9.00E-02		
13		0.00	0.000	0.000	0.0190	1.0656	0.5522	8.95E-02		
14		0.60	0.000	0.144	0.0205	0.8990	0.4658	8.90E-02		
15		0.00	0.000	0.285	0.0196	0.7550	0.3912	8.86E-02		
16		0.00	0.000	0.128	0.0191	0.6304	0.3266	8.82E-02		
17		5.20	0.000	0.417	0.0351	0.5227	0.2708	8.79E-02		
18		7.60	0.000	0.566	0.0585	0.4295	0.2226	8.76E-02		
19		1.40	0.000	0.743	0.0605	0.3568	0.1849	8.74E-02		
20		5.40	0.000	0.741	0.0610	0.4696	0.2433	8.78E-02		
21		14.40	0.000	0.719	0.0788	0.7135	0.3697	8.85E-02		

22	71.80	0.000	4.841	0.0991	0.5945	0.3081	8.81E-02
23	66.20	0.000	5.930	0.0979	0.4917	0.2548	8.78E-02
24	109.40	0.000	5.817	0.1153	0.4027	0.2087	8.76E-02
25	11.20	0.000	5.597	0.0662	0.3707	0.1921	8.75E-02
26	1.20	0.000	6.032	0.0476	7.1562	3.7080	1.07E-01
27	47.00	0.000	4.897	0.1076	15.7223	8.1466	1.32E-01
28	1.20	0.000	6.068	0.0459	18.2737	9.4687	1.39E-01
29	0.00	0.000	5.311	0.0282	22.3762	11.5945	1.51E-01
30	4.40	0.000	3.507	0.0311	26.5873	13.7765	1.63E-01
31	60.20	0.000	2.704	0.1138	28.5742	14.8060	1.69E-01
32	240.60	0.000	2.855	0.1602	27.2187	14.1036	1.65E-01
33	167.60	0.000	3.151	0.1332	23.9537	12.4118	1.55E-01
34	129.00	0.000	3.654	0.1204	476.2449	27.3185	1.46E+00
35	35.80	0.000	3.031	0.0939	680.0998	33.3386	2.05E+00
36	20.00	0.000	3.192	0.0885	678.5826	33.2858	2.04E+00
37	8.60	0.000	3.527	0.0676	659.1210	32.6111	1.98E+00
38	13.70	0.000	2.908	0.0757	635.1233	31.7834	1.92E+00
39	31.20	0.000	4.432	0.0955	609.2532	30.8959	1.84E+00
40	0.60	0.000	6.859	0.0419	598.7937	30.5387	1.81E+00
41	0.00	0.000	6.861	0.0190	572.0649	29.6305	1.73E+00
42	0.00	0.000	0.000	0.0190	539.5245	28.5328	1.64E+00
43	0.00	0.000	0.000	0.0190	508.2166	27.4859	1.55E+00
44	0.00	0.000	0.000	0.0190	478.0851	26.4873	1.46E+00
45	0.30	0.000	0.300	0.0190	449.0764	25.5348	1.38E+00
46	0.00	0.000	0.000	0.0190	421.1395	24.6263	1.30E+00
47	14.60	0.000	1.135	0.0639	394.2256	23.7601	1.22E+00
48	0.10	0.000	4.454	0.0484	368.2878	22.9346	1.15E+00
49	0.60	0.000	1.412	0.0447	343.8604	22.0719	1.08E+00
50	0.10	0.000	1.147	0.0398	320.1788	21.3546	1.01E+00

51	0.00	0.000	1.077	0.0362	297.0910	20.6645	9.42E-01
52	0.00	0.000	0.997	0.0329	274.6367	20.0035	8.77E-01
53	6.40	0.000	0.977	0.0509	252.9321	19.3762	8.15E-01
54	11.00	0.000	0.920	0.0734	232.0819	18.7866	7.55E-01
55	8.40	0.000	4.954	0.0665	98.7394	16.3062	3.71E-01
56	6.00	0.000	6.469	0.0593	130.1327	16.7666	4.61E-01
57	0.10	0.000	5.890	0.0394	123.0762	16.5488	4.41E-01
58	0.00	0.000	6.079	0.0192	60.1411	15.5968	2.60E-01
59	0.60	0.000	0.516	0.0194	58.7588	15.5944	2.56E-01
60	8.20	0.000	0.926	0.0437	55.4884	15.5888	2.46E-01
61	0.00	0.000	1.332	0.0392	50.7313	15.5806	2.33E-01
62	0.00	0.000	1.322	0.0348	44.7786	15.5703	2.15E-01
63	0.00	0.000	1.165	0.0310	37.8481	15.5583	1.95E-01
64	0.00	0.000	1.056	0.0274	29.2620	15.1624	1.71E-01
65	0.60	0.000	1.014	0.0261	27.3429	14.1680	1.65E-01
66	0.00	0.000	0.825	0.0233	25.5232	13.2251	1.60E-01
67	0.50	0.000	0.854	0.0221	23.8141	12.3395	1.55E-01
68	2.70	0.000	0.761	0.0286	22.2175	11.5122	1.50E-01
69	0.10	0.000	0.554	0.0271	20.7319	10.7424	1.46E-01
70	0.00	0.000	0.538	0.0253	19.3400	10.0212	1.42E-01
71	0.00	0.000	0.593	0.0233	17.0900	8.8553	1.36E-01
72	0.00	0.000	0.570	0.0214	14.7555	7.6457	1.29E-01
73	23.00	0.000	0.652	0.0959	12.7368	6.5997	1.23E-01
74	9.80	0.000	5.037	0.0673	10.9912	5.6952	1.18E-01
75	1.10	0.000	4.729	0.0526	9.6955	5.0238	1.14E-01
76	0.80	0.000	6.037	0.0329	9.2619	4.7991	1.13E-01
77	3.60	0.000	6.760	0.0223	9.3158	4.8271	1.13E-01
78	0.00	0.000	0.721	0.0199	9.2924	4.8149	1.13E-01
79	0.00	0.000	0.236	0.0192	8.1539	4.2250	1.10E-01

80	1.30	0.000	0.269	0.0226	7.0284	3.6418	1.07E-01
81	0.60	0.000	0.732	0.0222	6.0551	3.1375	1.04E-01
82	0.00	0.000	0.758	0.0196	5.2135	2.7014	1.01E-01
83	0.40	0.000	0.298	0.0200	4.4858	2.3244	9.93E-02
84	0.00	0.000	0.108	0.0196	3.8565	1.9983	9.75E-02
85	0.00	0.000	0.118	0.0192	3.3123	1.7163	9.59E-02
86	0.00	0.000	0.049	0.0191	2.8418	1.4725	9.46E-02
87	0.00	0.000	0.012	0.0190	2.4349	1.2616	9.34E-02
88	0.00	0.000	0.003	0.0190	2.0830	1.0793	9.24E-02
89	0.00	0.000	0.001	0.0190	1.7788	0.9217	9.15E-02
90	0.00	0.000	0.000	0.0190	1.5157	0.7854	9.08E-02
91	0.00	0.000	0.000	0.0190	1.2882	0.6675	9.01E-02
92	0.80	0.000	0.109	0.0213	1.0915	0.5656	8.95E-02
93	0.00	0.000	0.280	0.0204	0.9214	0.4774	8.91E-02
94	0.00	0.000	0.323	0.0193	0.7743	0.4012	8.86E-02
95	0.00	0.000	0.077	0.0190	0.6471	0.3353	8.83E-02
96	0.00	0.000	0.009	0.0190	0.5371	0.2783	8.79E-02
97	0.00	0.000	0.002	0.0190	0.4420	0.2290	8.77E-02
98	0.00	0.000	0.001	0.0190	0.3598	0.1864	8.74E-02
99	0.00	0.000	0.000	0.0190	0.2887	0.1496	8.72E-02
100	0.60	0.000	0.098	0.0207	0.2272	0.1177	8.71E-02
101	0.00	0.000	0.225	0.0199	0.1740	0.0902	8.69E-02
102	0.00	0.000	0.214	0.0192	0.1280	0.0663	8.68E-02
103	0.00	0.000	0.047	0.0191	0.0883	0.0457	8.67E-02
104	1.20	0.000	0.108	0.0227	0.0539	0.0279	8.66E-02
105	1.00	0.000	0.261	0.0252	0.0242	0.0125	8.65E-02
106	0.00	0.000	0.204	0.0245	0.0022	0.0010	2.65E-02
107	0.00	0.000	0.321	0.0234	0.0000	0.0000	0.00E+00
108	0.10	0.000	0.360	0.0225	0.0000	0.0000	0.00E+00

109	0.00	0.000	0.310	0.0215	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.292	0.0205	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.363	0.0193	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.076	0.0191	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.017	0.0190	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
124	0.10	0.000	0.078	0.0191	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.012	0.0190	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
129	0.30	0.000	0.085	0.0197	0.0000	0.0000	0.00E+00
130	0.20	0.000	0.083	0.0201	0.0000	0.0000	0.00E+00
131	0.20	0.000	0.175	0.0202	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.146	0.0197	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.094	0.0194	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.072	0.0192	0.0000	0.0000	0.00E+00
135	0.10	0.000	0.099	0.0192	0.0000	0.0000	0.00E+00
136	0.10	0.000	0.082	0.0192	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.030	0.0191	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.026	0.0190	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
148	1.40	0.000	0.081	0.0234	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.127	0.0230	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.203	0.0223	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.201	0.0216	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.200	0.0210	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.198	0.0203	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.186	0.0197	0.0000	0.0000	0.00E+00
155	0.10	0.000	0.231	0.0192	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.054	0.0191	0.0000	0.0000	0.00E+00
157	0.40	0.000	0.099	0.0201	0.0000	0.0000	0.00E+00
158	24.00	0.000	0.294	0.0991	0.0000	0.0000	0.00E+00
159	3.60	0.000	0.342	0.0656	0.0368	0.0190	2.21E-02
160	0.00	0.000	0.282	0.0596	0.3909	0.2025	8.75E-02
161	0.00	0.000	0.281	0.0541	1.1534	0.5977	8.97E-02
162	0.00	0.000	0.279	0.0510	2.0826	1.0791	9.24E-02
163	0.10	0.000	0.325	0.0487	3.0510	1.5809	9.52E-02
164	0.10	0.000	0.324	0.0467	3.5201	1.8240	9.65E-02
165	0.00	0.000	0.274	0.0449	3.1063	1.6096	9.53E-02
166	12.40	0.000	0.332	0.0795	2.7071	1.4027	9.42E-02

167	11.20	0.000	0.330	0.0760	2.4982	1.2945	9.36E-02
168	0.10	0.000	2.973	0.0476	2.1750	1.1270	9.27E-02
169	2.70	0.000	2.894	0.0470	2.3469	1.2160	9.32E-02
170	19.60	0.000	3.466	0.0951	3.4291	1.7768	9.63E-02
171	1.90	0.000	3.396	0.0510	4.2702	2.2126	9.87E-02
172	11.00	0.000	2.631	0.0715	4.1269	2.1384	9.83E-02
173	9.20	0.000	2.919	0.0638	4.6747	2.4222	9.99E-02
174	3.00	0.000	3.546	0.0589	4.3174	2.2371	9.88E-02
175	0.00	0.000	3.722	0.0453	4.7906	2.4823	1.00E-01
176	0.20	0.000	3.524	0.0342	5.6541	2.9297	1.03E-01
177	11.00	0.000	3.503	0.0590	6.4234	3.3284	1.05E-01
178	0.00	0.000	4.548	0.0438	7.0207	3.6378	1.07E-01
179	0.10	0.000	4.560	0.0287	6.7082	3.4759	1.06E-01
180	0.00	0.000	2.900	0.0190	5.7827	2.9964	1.03E-01
181	0.00	0.000	0.010	0.0190	4.9780	2.5794	1.01E-01
182	0.00	0.000	0.002	0.0190	4.2821	2.2188	9.87E-02
183	0.00	0.000	0.001	0.0190	3.6803	1.9070	9.70E-02
184	0.00	0.000	0.000	0.0190	3.1600	1.6374	9.55E-02
185	0.20	0.000	0.200	0.0190	2.7100	1.4042	9.42E-02
186	0.00	0.000	0.000	0.0190	2.3210	1.2026	9.31E-02
187	0.00	0.000	0.000	0.0190	1.9845	1.0283	9.21E-02
188	0.00	0.000	0.000	0.0190	1.6936	0.8776	9.13E-02
189	0.00	0.000	0.000	0.0190	1.4420	0.7472	9.06E-02
190	0.00	0.000	0.000	0.0190	1.2245	0.6345	8.99E-02
191	0.00	0.000	0.000	0.0190	1.0364	0.5370	8.94E-02
192	0.00	0.000	0.000	0.0190	0.8738	0.4528	8.89E-02
193	0.00	0.000	0.000	0.0190	0.7331	0.3799	8.85E-02
194	0.00	0.000	0.000	0.0190	0.6115	0.3169	8.82E-02
195	0.00	0.000	0.000	0.0190	0.5063	0.2624	8.79E-02

196	0.00	0.000	0.000	0.0190	0.4154	0.2152	8.76E-02
197	0.00	0.000	0.000	0.0190	0.3368	0.1745	8.74E-02
198	0.00	0.000	0.000	0.0190	0.2688	0.1393	8.72E-02
199	0.00	0.000	0.000	0.0190	0.2100	0.1088	8.70E-02
200	0.00	0.000	0.000	0.0190	0.1591	0.0825	8.69E-02
201	0.00	0.000	0.000	0.0190	0.1152	0.0597	8.67E-02
202	0.00	0.000	0.000	0.0190	0.0772	0.0400	8.66E-02
203	0.00	0.000	0.000	0.0190	0.0443	0.0229	8.65E-02
204	0.00	0.000	0.000	0.0190	0.0159	0.0082	8.63E-02
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.20	0.000	0.099	0.0193	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.042	0.0192	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.042	0.0191	0.0000	0.0000	0.00E+00
213	0.20	0.000	0.110	0.0194	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.043	0.0192	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.050	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.011	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	3.60	0.000	0.233	0.0302	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.276	0.0293	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.333	0.0282	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.344	0.0270	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.336	0.0259	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.324	0.0248	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.324	0.0238	0.0000	0.0000	0.00E+00
229	0.80	0.000	0.386	0.0251	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.313	0.0241	0.0000	0.0000	0.00E+00
231	0.20	0.000	0.394	0.0235	0.0000	0.0000	2.11E-04
232	1.80	0.000	0.378	0.0282	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.331	0.0271	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.330	0.0260	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.327	0.0249	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.331	0.0238	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.246	0.0230	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.234	0.0222	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.227	0.0214	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.281	0.0205	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.301	0.0195	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.113	0.0191	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.026	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.009	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	2.40	0.000	0.201	0.0263	0.0000	0.0000	0.00E+00
249	6.90	0.000	0.281	0.0484	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.287	0.0474	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.303	0.0464	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.300	0.0454	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.308	0.0444	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.306	0.0434	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.304	0.0424	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.301	0.0414	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.293	0.0404	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.297	0.0394	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.295	0.0384	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.293	0.0374	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.291	0.0365	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.289	0.0355	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.288	0.0345	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.286	0.0336	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.284	0.0326	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.282	0.0317	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.281	0.0308	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.279	0.0298	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.277	0.0289	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.276	0.0280	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.274	0.0271	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.272	0.0262	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.271	0.0253	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.269	0.0244	0.0000	0.0000	0.00E+00
275	18.20	0.000	0.346	0.0839	0.0000	0.0000	0.00E+00
276	3.60	0.000	0.345	0.0598	0.0848	0.0440	6.50E-02
277	0.00	0.000	0.265	0.0515	0.1352	0.0701	8.68E-02
278	0.00	0.000	0.264	0.0506	0.8931	0.4628	8.90E-02
279	0.00	0.000	0.262	0.0497	2.1937	1.1367	9.27E-02
280	0.00	0.000	0.261	0.0457	2.9315	1.5190	9.48E-02
281	0.00	0.000	0.259	0.0445	2.5892	1.3416	9.39E-02
282	0.00	0.000	0.258	0.0429	2.2700	1.1762	9.29E-02

283	0.00	0.000	0.257	0.0417	1.9815	1.0267	9.21E-02
284	0.00	0.000	0.251	0.0406	1.7158	0.8891	9.13E-02
285	0.00	0.000	0.253	0.0398	1.4696	0.7615	9.06E-02
286	6.20	0.000	0.335	0.0593	1.2483	0.6468	9.00E-02
287	0.00	0.000	0.252	0.0585	1.0570	0.5477	8.94E-02
288	0.00	0.000	0.250	0.0552	1.0211	0.5291	8.93E-02
289	0.00	0.000	0.249	0.0543	0.9249	0.4793	8.91E-02
290	0.00	0.000	0.248	0.0535	0.7773	0.4028	8.86E-02
291	0.00	0.000	0.247	0.0527	0.6497	0.3367	8.83E-02
292	0.90	0.000	0.331	0.0546	0.5394	0.2795	8.80E-02
293	0.00	0.000	0.245	0.0520	0.5024	0.2603	8.78E-02
294	0.00	0.000	0.244	0.0497	0.5386	0.2791	8.79E-02
295	0.00	0.000	0.242	0.0478	0.5461	0.2830	8.80E-02
296	0.00	0.000	0.241	0.0460	0.5313	0.2753	8.79E-02
297	0.20	0.000	0.319	0.0457	0.4798	0.2486	8.78E-02
298	0.00	0.000	0.239	0.0443	0.4045	0.2096	8.76E-02
299	0.00	0.000	0.238	0.0428	0.3799	0.1968	8.75E-02
300	0.00	0.000	0.237	0.0414	0.3565	0.1847	8.74E-02
301	0.00	0.000	0.236	0.0402	0.3276	0.1698	8.73E-02
302	0.00	0.000	0.231	0.0394	0.2828	0.1465	8.72E-02
303	0.00	0.000	0.234	0.0386	0.2221	0.1151	8.70E-02
304	0.00	0.000	0.233	0.0379	0.1696	0.0879	8.69E-02
305	0.00	0.000	0.232	0.0371	0.1242	0.0644	8.68E-02
306	0.00	0.000	0.231	0.0363	0.0850	0.0440	8.66E-02
307	0.00	0.000	0.230	0.0356	0.0511	0.0265	8.65E-02
308	0.00	0.000	0.229	0.0348	0.0217	0.0112	8.65E-02
309	0.00	0.000	0.228	0.0340	0.0013	0.0006	1.87E-02
310	0.00	0.000	0.227	0.0333	0.0000	0.0000	0.00E+00
311	0.20	0.000	0.310	0.0329	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.226	0.0321	0.0000	0.0000	0.00E+00
313	0.40	0.000	0.320	0.0324	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.224	0.0317	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.223	0.0309	0.0000	0.0000	0.00E+00
316	0.20	0.000	0.299	0.0306	0.0000	0.0000	0.00E+00
317	1.30	0.000	0.320	0.0339	0.0000	0.0000	0.00E+00
318	2.20	0.000	0.319	0.0401	0.0000	0.0000	0.00E+00
319	7.40	0.000	0.319	0.0637	0.0000	0.0000	0.00E+00
320	0.80	0.000	0.318	0.0615	0.1460	0.0757	6.52E-02
321	0.00	0.000	0.218	0.0570	0.3788	0.1963	8.75E-02
322	0.20	0.000	0.304	0.0542	0.5634	0.2919	8.80E-02
323	3.60	0.000	0.318	0.0586	0.5673	0.2940	8.80E-02
324	0.00	0.000	0.216	0.0570	0.6245	0.3236	8.82E-02
325	0.00	0.000	0.215	0.0563	0.9356	0.4848	8.91E-02
326	0.00	0.000	0.214	0.0556	0.7866	0.4076	8.87E-02
327	0.00	0.000	0.213	0.0549	0.6577	0.3408	8.83E-02
328	5.40	0.000	0.317	0.0639	0.5463	0.2831	8.80E-02
329	0.50	0.000	5.369	0.0420	0.6284	0.3256	8.82E-02
330	3.80	0.000	0.317	0.0536	1.2507	0.6481	9.00E-02
331	17.80	0.000	0.317	0.0948	1.2380	0.6415	9.00E-02
332	96.40	0.000	5.303	0.1108	1.1575	0.5997	8.97E-02
333	9.80	0.000	5.793	0.0669	0.9876	0.5117	8.92E-02
334	10.00	0.000	5.254	0.0670	2.1365	1.1071	9.26E-02
335	10.00	0.000	6.705	0.0623	4.4329	2.2969	9.92E-02
336	0.20	0.000	5.302	0.0450	6.3808	3.3063	1.05E-01
337	0.20	0.000	4.527	0.0305	8.6718	4.4934	1.11E-01
338	2.60	0.000	5.119	0.0221	10.4552	5.4175	1.17E-01
339	17.20	0.000	4.798	0.0635	11.6983	6.0616	1.20E-01
340	0.20	0.000	3.715	0.0430	12.5246	6.4897	1.22E-01

341	0.00	0.000	6.556	0.0212	12.7057	6.5836	1.23E-01
342	0.00	0.000	0.494	0.0190	12.8330	6.6495	1.23E-01
343	0.00	0.000	0.000	0.0190	13.0295	6.7513	1.24E-01
344	0.00	0.000	0.000	0.0190	13.0804	6.7777	1.24E-01
345	0.00	0.000	0.000	0.0190	12.9972	6.7346	1.24E-01
346	0.00	0.000	0.000	0.0190	12.8133	6.6393	1.23E-01
347	0.00	0.000	0.000	0.0190	12.5550	6.5055	1.23E-01
348	0.00	0.000	0.000	0.0190	11.9236	6.1783	1.21E-01
349	0.00	0.000	0.000	0.0190	10.3335	5.3544	1.16E-01
350	3.80	0.000	0.567	0.0298	8.9130	4.6184	1.12E-01
351	0.00	0.000	0.672	0.0275	7.6848	3.9819	1.09E-01
352	0.00	0.000	0.693	0.0252	6.6227	3.4316	1.05E-01
353	0.20	0.000	0.811	0.0232	5.7043	2.9557	1.03E-01
354	0.00	0.000	0.672	0.0209	4.9101	2.5442	1.01E-01
355	1.60	0.000	0.777	0.0237	4.2234	2.1884	9.86E-02
356	0.00	0.000	0.377	0.0224	3.6296	1.8807	9.69E-02
357	1.00	0.000	0.610	0.0237	3.1161	1.6146	9.54E-02
358	1.40	0.000	0.478	0.0268	2.6721	1.3846	9.41E-02
359	0.60	0.000	0.582	0.0269	2.2882	1.1856	9.30E-02
360	40.60	0.000	0.764	0.0917	1.9562	1.0136	9.20E-02
361	16.90	0.000	3.625	0.0861	1.6691	0.8648	9.12E-02
362	33.60	0.000	3.716	0.0861	1.9469	1.0088	9.20E-02
363	3.20	0.000	4.695	0.0588	2.0908	1.0834	9.24E-02
364	0.90	0.000	5.745	0.0393	2.5748	1.3341	9.38E-02
365	0.00	0.000	5.712	0.0195	4.4247	2.2927	9.91E-02

* = Frozen (air or soil)

Annual Totals for Year 12			
	mm*	cubic meters	percent
Precipitation	1,626.20	16,262.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	363.989	3,639.9	22.38
Drainage Collected from Layer 2	1,164.4704	11,644.7	71.61
Percolation/Leakage through Layer 3	52.600559	526.0	3.23
Average Head on Top of Layer 3	31.0274 (cm)	---	---
Change in Water Storage	45.1396	451.4	2.78
Soil Water at Start of Year	875.6757	8,756.8	53.85
Soil Water at End of Year	920.8154	9,208.2	56.62
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 13

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone			
	Air	Soil				Water	Head #1	Drain #1	Leak #1
						(cm/cm)	(cm)	(mm)	(mm)
1			0.00	0.000	0.034	0.0190	7.5058	3.8892	1.08E-01
2			0.00	0.000	0.007	0.0190	8.5049	4.4069	1.11E-01
3			1.40	0.000	0.526	0.0219	9.2157	4.7752	1.13E-01
4			18.40	0.000	4.828	0.0672	9.6971	5.0246	1.14E-01
5			27.40	0.000	6.067	0.1021	10.0091	5.1863	1.15E-01
6	*Note: head c		1.40	0.000	5.234	0.0410	9.6557	5.0032	1.14E-01
7			0.20	0.000	5.140	0.0245	9.1362	4.7340	1.13E-01
8			62.00	0.000	3.501	0.1053	9.4089	4.8753	1.13E-01
9			152.00	0.000	3.009	0.1266	8.8179	4.5691	1.12E-01
10			18.80	0.000	4.912	0.0845	7.8330	4.0587	1.09E-01
11			12.60	0.000	5.070	0.0734	12.2655	6.3555	1.22E-01
12			35.20	0.000	5.581	0.0999	16.6330	8.6185	1.34E-01
13			52.80	0.000	4.310	0.1003	17.8799	9.2647	1.38E-01
14			45.10	0.000	2.779	0.0968	17.1140	8.8678	1.36E-01
15			133.80	0.000	3.334	0.1243	17.8980	9.2740	1.38E-01
16			18.00	0.000	5.797	0.0777	22.4516	11.6335	1.51E-01
17			15.40	0.000	6.244	0.0729	397.8572	23.8762	1.23E+00
18			19.60	0.000	5.967	0.0877	382.2676	23.3781	1.19E+00
19			4.20	0.000	5.504	0.0578	367.2792	22.9024	1.14E+00
20			0.20	0.000	6.476	0.0349	349.9625	22.2846	1.09E+00
21			0.00	0.000	4.706	0.0192	325.9368	21.5282	1.03E+00

22	0.00	0.000	0.040	0.0190	302.5036	20.8254	9.58E-01
23	0.20	0.000	0.210	0.0190	279.8668	20.1565	8.92E-01
24	0.20	0.000	0.202	0.0190	257.9887	19.5212	8.29E-01
25	0.00	0.000	0.001	0.0190	236.8315	18.9196	7.68E-01
26	0.00	0.000	0.000	0.0190	216.3574	18.3525	7.09E-01
27	0.00	0.000	0.000	0.0190	196.5276	17.8086	6.52E-01
28	0.00	0.000	0.000	0.0190	90.2425	16.0378	3.46E-01
29	0.00	0.000	0.000	0.0190	59.5240	15.5958	2.58E-01
30	4.20	0.000	0.555	0.0311	57.0014	15.5914	2.51E-01
31	27.80	0.000	1.044	0.0890	52.8373	15.5842	2.39E-01
32	0.30	0.000	5.184	0.0363	43.5802	15.5682	2.12E-01
33	1.20	0.000	5.476	0.0220	30.3879	15.2810	1.74E-01
34	1.40	0.000	1.391	0.0220	28.4493	14.7413	1.68E-01
35	40.80	0.000	5.065	0.0826	27.3351	14.1639	1.65E-01
36	6.20	0.000	6.946	0.0527	25.6419	13.2866	1.60E-01
37	0.00	0.000	5.607	0.0340	23.1765	12.0091	1.53E-01
38	0.80	0.000	5.045	0.0199	22.5030	11.6601	1.51E-01
39	0.20	0.000	0.328	0.0194	22.0364	11.4183	1.50E-01
40	53.00	0.000	5.640	0.0943	21.4049	11.0912	1.48E-01
41	8.40	0.000	3.796	0.0603	19.8818	10.3019	1.44E-01
42	145.00	0.000	2.932	0.1303	17.9673	9.3099	1.38E-01
43	44.00	0.000	5.250	0.0930	16.2162	8.4026	1.33E-01
44	0.30	0.000	4.673	0.0464	17.1391	8.8808	1.36E-01
45	1.50	0.000	5.821	0.0320	22.6531	11.7379	1.52E-01
46	18.50	0.000	4.290	0.0793	28.4170	14.7245	1.68E-01
47	265.80	0.000	3.139	0.1680	37.0078	15.5569	1.93E-01
48	6.00	0.000	4.713	0.0530	136.8719	17.7348	4.81E-01
49	7.20	0.000	2.989	0.0670	442.7790	25.3292	1.36E+00
50	1.10	0.000	6.283	0.0462	415.4648	24.4429	1.28E+00

51	30.00	0.000	5.956	0.0808	389.6248	23.6130	1.21E+00
52	0.00	0.000	3.887	0.0470	376.4836	23.1941	1.17E+00
53	0.00	0.000	6.989	0.0237	358.9695	22.5896	1.12E+00
54	0.00	0.000	1.412	0.0190	334.4889	21.7870	1.05E+00
55	0.00	0.000	0.000	0.0190	310.7625	21.0720	9.81E-01
56	0.00	0.000	0.000	0.0190	287.8463	20.3910	9.15E-01
57	69.40	0.000	3.256	0.1151	266.1967	19.7580	8.53E-01
58	21.40	0.000	4.633	0.0920	114.4899	16.7918	4.16E-01
59	4.00	0.000	3.919	0.0576	291.4946	20.4984	9.26E-01
60	7.20	0.000	5.350	0.0637	278.2536	20.1092	8.88E-01
61	0.20	0.000	4.634	0.0464	257.0638	19.4946	8.27E-01
62	0.40	0.000	4.073	0.0342	236.2003	18.9019	7.67E-01
63	0.20	0.000	4.281	0.0206	215.7463	18.3358	7.08E-01
64	0.00	0.000	0.468	0.0190	195.9355	17.7932	6.51E-01
65	1.80	0.000	0.854	0.0222	90.0781	16.0343	3.46E-01
66	0.20	0.000	0.954	0.0196	59.4400	15.5956	2.58E-01
67	0.00	0.000	0.146	0.0192	56.8575	15.5912	2.50E-01
68	0.00	0.000	0.037	0.0190	52.6462	15.5839	2.38E-01
69	0.00	0.000	0.009	0.0190	47.1352	15.5744	2.22E-01
70	0.00	0.000	0.002	0.0190	40.5677	15.5630	2.03E-01
71	0.00	0.000	0.001	0.0190	32.2964	15.4216	1.79E-01
72	0.30	0.000	0.142	0.0195	28.0641	14.5417	1.67E-01
73	0.00	0.000	0.087	0.0192	26.2057	13.5787	1.62E-01
74	0.00	0.000	0.051	0.0191	24.4555	12.6718	1.57E-01
75	0.00	0.000	0.016	0.0190	22.8170	11.8228	1.52E-01
76	0.00	0.000	0.004	0.0190	21.2901	11.0317	1.48E-01
77	0.00	0.000	0.001	0.0190	19.8737	10.2977	1.44E-01
78	0.00	0.000	0.000	0.0190	18.0959	9.3765	1.39E-01
79	0.80	0.000	0.104	0.0213	15.6253	8.0964	1.31E-01

80	0.00	0.000	0.302	0.0203	13.4889	6.9894	1.25E-01
81	0.00	0.000	0.328	0.0192	11.6416	6.0322	1.20E-01
82	0.00	0.000	0.058	0.0190	10.0442	5.2045	1.15E-01
83	0.00	0.000	0.007	0.0190	8.6629	4.4887	1.11E-01
84	0.90	0.000	0.096	0.0217	7.4684	3.8698	1.08E-01
85	0.00	0.000	0.255	0.0208	6.4356	3.3347	1.05E-01
86	0.00	0.000	0.356	0.0197	5.5425	2.8719	1.02E-01
87	0.00	0.000	0.148	0.0192	4.7702	2.4717	1.00E-01
88	0.20	0.000	0.124	0.0194	4.1024	2.1257	9.82E-02
89	3.00	0.000	0.281	0.0285	3.5250	1.8265	9.66E-02
90	0.00	0.000	0.227	0.0277	3.0257	1.5678	9.51E-02
91	0.00	0.000	0.354	0.0265	2.5939	1.3440	9.39E-02
92	0.00	0.000	0.360	0.0253	2.2205	1.1506	9.28E-02
93	0.00	0.000	0.392	0.0240	1.8977	0.9833	9.19E-02
94	0.00	0.000	0.344	0.0229	1.6185	0.8386	9.11E-02
95	0.00	0.000	0.401	0.0215	1.3771	0.7136	9.04E-02
96	0.00	0.000	0.393	0.0202	1.1684	0.6054	8.98E-02
97	0.00	0.000	0.317	0.0192	0.9879	0.5119	8.92E-02
98	0.00	0.000	0.044	0.0190	0.8318	0.4310	8.88E-02
99	0.00	0.000	0.009	0.0190	0.6968	0.3611	8.84E-02
100	0.00	0.000	0.000	0.0190	0.5801	0.3006	8.81E-02
101	0.00	0.000	0.000	0.0190	0.4792	0.2483	8.78E-02
102	0.00	0.000	0.000	0.0190	0.3919	0.2031	8.75E-02
103	0.00	0.000	0.000	0.0190	0.3165	0.1640	8.73E-02
104	0.00	0.000	0.000	0.0190	0.2512	0.1302	8.71E-02
105	0.00	0.000	0.000	0.0190	0.1948	0.1009	8.70E-02
106	0.00	0.000	0.000	0.0190	0.1460	0.0757	8.68E-02
107	0.00	0.000	0.000	0.0190	0.1038	0.0538	8.67E-02
108	0.90	0.000	0.080	0.0217	0.0673	0.0349	8.66E-02

109	0.00	0.000	0.165	0.0212	0.0358	0.0186	8.65E-02
110	0.00	0.000	0.230	0.0204	0.0087	0.0044	6.18E-02
111	0.00	0.000	0.260	0.0196	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.111	0.0192	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.041	0.0190	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.010	0.0190	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
136	0.60	0.000	0.074	0.0208	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.128	0.0203	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.160	0.0198	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.168	0.0192	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.048	0.0191	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.017	0.0190	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.005	0.0190	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
157	0.20	0.000	0.070	0.0194	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.023	0.0194	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.049	0.0192	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.044	0.0190	0.0000	0.0000	0.00E+00
161	0.50	0.000	0.085	0.0204	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.111	0.0201	0.0000	0.0000	3.50E-08
163	0.80	0.000	0.222	0.0220	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.125	0.0216	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.171	0.0210	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.174	0.0204	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.172	0.0198	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.158	0.0193	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.076	0.0191	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.017	0.0190	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	2.40	0.000	0.144	0.0265	0.0000	0.0000	0.00E+00
198	14.40	0.000	0.201	0.0738	0.0000	0.0000	0.00E+00
199	0.60	0.000	0.266	0.0563	0.0493	0.0256	4.33E-02
200	0.00	0.000	0.221	0.0545	0.2283	0.1183	8.71E-02
201	0.00	0.000	0.221	0.0531	1.0994	0.5696	8.96E-02
202	0.20	0.000	0.270	0.0519	1.3587	0.7040	9.03E-02
203	5.00	0.000	0.270	0.0669	1.2419	0.6435	9.00E-02
204	3.90	0.000	0.269	0.0608	1.0997	0.5698	8.96E-02
205	26.50	0.000	0.269	0.0898	1.2739	0.6601	9.01E-02
206	34.40	0.000	0.268	0.0897	1.1372	0.5892	8.97E-02
207	0.00	0.000	5.458	0.0468	1.1102	0.5753	8.96E-02
208	0.00	0.000	5.157	0.0296	2.0108	1.0419	9.22E-02
209	0.00	0.000	3.185	0.0190	3.9877	2.0663	9.79E-02
210	0.00	0.000	0.000	0.0190	5.6533	2.9293	1.03E-01
211	0.00	0.000	0.000	0.0190	6.9141	3.5826	1.06E-01
212	0.00	0.000	0.000	0.0190	7.8498	4.0674	1.09E-01
213	0.00	0.000	0.000	0.0190	8.5243	4.4170	1.11E-01
214	0.00	0.000	0.000	0.0190	8.9897	4.6581	1.12E-01
215	0.00	0.000	0.000	0.0190	9.2879	4.8126	1.13E-01
216	0.00	0.000	0.000	0.0190	9.4271	4.8847	1.14E-01
217	0.00	0.000	0.000	0.0190	8.4479	4.3773	1.11E-01
218	0.00	0.000	0.000	0.0190	7.2825	3.7735	1.07E-01
219	0.00	0.000	0.000	0.0190	6.2748	3.2514	1.04E-01
220	0.00	0.000	0.000	0.0190	5.4035	2.7999	1.02E-01
221	0.00	0.000	0.000	0.0190	4.6500	2.4095	9.98E-02
222	0.00	0.000	0.000	0.0190	3.9985	2.0719	9.79E-02
223	0.00	0.000	0.000	0.0190	3.4351	1.7799	9.63E-02
224	0.00	0.000	0.000	0.0190	2.9479	1.5275	9.49E-02

225	0.00	0.000	0.000	0.0190	2.5267	1.3092	9.37E-02
226	0.00	0.000	0.000	0.0190	2.1624	1.1205	9.26E-02
227	0.00	0.000	0.000	0.0190	1.8474	0.9573	9.17E-02
228	0.00	0.000	0.000	0.0190	1.5751	0.8161	9.09E-02
229	0.00	0.000	0.000	0.0190	1.3395	0.6941	9.03E-02
230	0.00	0.000	0.000	0.0190	1.1359	0.5886	8.97E-02
231	0.00	0.000	0.000	0.0190	0.9598	0.4973	8.92E-02
232	0.00	0.000	0.000	0.0190	0.8075	0.4184	8.87E-02
233	0.00	0.000	0.000	0.0190	0.6758	0.3502	8.83E-02
234	0.00	0.000	0.000	0.0190	0.5620	0.2912	8.80E-02
235	0.00	0.000	0.000	0.0190	0.4635	0.2402	8.77E-02
236	0.00	0.000	0.000	0.0190	0.3784	0.1960	8.75E-02
237	0.00	0.000	0.000	0.0190	0.3047	0.1579	8.73E-02
238	0.00	0.000	0.000	0.0190	0.2411	0.1249	8.71E-02
239	0.00	0.000	0.000	0.0190	0.1860	0.0964	8.69E-02
240	0.00	0.000	0.000	0.0190	0.1384	0.0717	8.68E-02
241	0.00	0.000	0.000	0.0190	0.0973	0.0504	8.67E-02
242	0.00	0.000	0.000	0.0190	0.0617	0.0320	8.66E-02
243	0.00	0.000	0.000	0.0190	0.0309	0.0160	8.65E-02
244	0.00	0.000	0.000	0.0190	0.0055	0.0027	4.71E-02
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.50	0.000	0.088	0.0204	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.176	0.0198	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.198	0.0191	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.028	0.0190	0.0000	0.0000	0.00E+00
252	2.00	0.000	0.229	0.0249	0.0000	0.0000	0.00E+00
253	3.60	0.000	0.222	0.0362	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.326	0.0351	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.357	0.0339	0.0000	0.0000	0.00E+00
256	2.20	0.000	0.405	0.0399	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.348	0.0387	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.358	0.0376	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.345	0.0364	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.337	0.0353	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.354	0.0341	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.351	0.0329	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.342	0.0318	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.344	0.0306	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.340	0.0295	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.337	0.0284	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.334	0.0273	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.331	0.0262	0.0000	0.0000	0.00E+00
269	5.80	0.000	0.389	0.0442	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.325	0.0431	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.333	0.0420	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.330	0.0409	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.322	0.0398	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.315	0.0388	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.320	0.0377	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.320	0.0366	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.317	0.0356	0.0000	0.0000	0.00E+00
278	0.40	0.000	0.381	0.0357	0.0000	0.0000	0.00E+00
279	0.20	0.000	0.376	0.0351	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.310	0.0340	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.308	0.0330	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.306	0.0320	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.266	0.0311	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.301	0.0301	0.0000	0.0000	0.00E+00
285	0.40	0.000	0.370	0.0302	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.297	0.0292	0.0000	0.0000	0.00E+00
287	10.40	0.000	0.367	0.0626	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.293	0.0556	0.1035	0.0536	4.35E-02
289	0.00	0.000	0.291	0.0523	0.4935	0.2557	8.78E-02
290	0.00	0.000	0.289	0.0503	0.5810	0.3011	8.81E-02
291	0.00	0.000	0.288	0.0494	0.5088	0.2636	8.79E-02
292	0.00	0.000	0.286	0.0484	0.4175	0.2163	8.76E-02
293	0.40	0.000	0.358	0.0486	0.3386	0.1754	8.74E-02
294	0.00	0.000	0.282	0.0474	0.2806	0.1454	8.72E-02
295	0.00	0.000	0.281	0.0464	0.2298	0.1191	8.71E-02
296	0.00	0.000	0.279	0.0455	0.1762	0.0913	8.69E-02
297	0.00	0.000	0.277	0.0446	0.1300	0.0673	8.68E-02
298	0.00	0.000	0.276	0.0437	0.0900	0.0466	8.67E-02
299	0.00	0.000	0.274	0.0427	0.0554	0.0287	8.66E-02
300	0.00	0.000	0.272	0.0418	0.0254	0.0132	8.65E-02
301	0.00	0.000	0.271	0.0409	0.0028	0.0013	3.04E-02
302	0.00	0.000	0.269	0.0400	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.268	0.0391	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.266	0.0382	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.265	0.0374	0.0000	0.0000	0.00E+00
306	1.00	0.000	0.342	0.0396	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.262	0.0382	0.0085	0.0044	4.32E-02
308	0.00	0.000	0.261	0.0374	0.0143	0.0072	8.11E-02
309	0.00	0.000	0.259	0.0365	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.258	0.0356	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.257	0.0348	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.252	0.0339	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.253	0.0331	0.0000	0.0000	0.00E+00
314	10.60	0.000	0.335	0.0673	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.252	0.0564	0.0000	0.0000	0.00E+00
316	3.40	0.000	0.333	0.0640	0.4820	0.2497	8.78E-02
317	0.00	0.000	0.249	0.0597	0.9486	0.4916	8.91E-02
318	0.00	0.000	0.248	0.0564	1.0919	0.5658	8.95E-02
319	0.00	0.000	0.247	0.0541	1.0883	0.5639	8.95E-02
320	0.00	0.000	0.246	0.0527	1.0163	0.5266	8.93E-02
321	0.00	0.000	0.245	0.0519	0.8668	0.4491	8.89E-02
322	0.00	0.000	0.244	0.0511	0.7271	0.3768	8.85E-02
323	0.00	0.000	0.242	0.0502	0.6063	0.3142	8.81E-02
324	6.40	0.000	0.328	0.0659	0.5107	0.2646	8.79E-02
325	1.40	0.000	0.327	0.0605	0.6815	0.3531	8.84E-02
326	0.00	0.000	0.239	0.0563	1.2834	0.6650	9.01E-02
327	0.00	0.000	0.238	0.0537	1.4832	0.7685	9.07E-02
328	3.20	0.000	0.325	0.0633	1.3395	0.6941	9.03E-02
329	0.30	0.000	0.322	0.0565	1.1842	0.6136	8.98E-02
330	0.00	0.000	0.235	0.0516	1.6324	0.8458	9.11E-02
331	0.00	0.000	0.234	0.0495	1.5919	0.8249	9.10E-02
332	0.20	0.000	0.313	0.0487	1.4203	0.7359	9.05E-02
333	65.80	0.000	0.322	0.1098	1.3521	0.7006	9.03E-02
334	1.60	0.000	4.944	0.0474	1.2478	0.6465	9.00E-02
335	0.40	0.000	5.020	0.0312	2.1892	1.1343	9.27E-02
336	0.00	0.000	3.630	0.0191	4.1963	2.1744	9.85E-02
337	0.00	0.000	0.030	0.0190	5.8151	3.0131	1.03E-01
338	0.00	0.000	0.007	0.0190	7.0380	3.6468	1.07E-01
339	0.00	0.000	0.002	0.0190	7.9431	4.1158	1.09E-01
340	0.00	0.000	0.001	0.0190	8.5929	4.4525	1.11E-01

341	0.20	0.000	0.200	0.0190	9.0383	4.6833	1.12E-01
342	0.00	0.000	0.000	0.0190	9.3205	4.8295	1.13E-01
343	53.40	0.000	1.457	0.0976	9.4328	4.8877	1.14E-01
344	0.20	0.000	4.602	0.0256	8.5016	4.4052	1.11E-01
345	0.00	0.000	1.623	0.0201	7.9957	4.1430	1.09E-01
346	0.00	0.000	0.343	0.0190	8.8897	4.6063	1.12E-01
347	0.00	0.000	0.000	0.0190	9.5898	4.9690	1.14E-01
348	0.00	0.000	0.000	0.0190	10.0567	5.2109	1.15E-01
349	5.00	0.000	2.223	0.0283	10.3391	5.3573	1.16E-01
350	1.60	0.000	1.293	0.0293	10.4764	5.4285	1.17E-01
351	0.00	0.000	1.150	0.0254	10.5227	5.4525	1.17E-01
352	0.00	0.000	0.805	0.0228	9.6536	5.0021	1.14E-01
353	0.00	0.000	0.886	0.0198	8.3251	4.3137	1.10E-01
354	0.00	0.000	0.209	0.0191	7.1764	3.7185	1.07E-01
355	0.00	0.000	0.025	0.0190	6.1832	3.2039	1.04E-01
356	0.00	0.000	0.008	0.0190	5.3242	2.7588	1.02E-01
357	2.50	0.000	0.461	0.0258	4.5815	2.3739	9.96E-02
358	7.10	0.000	0.651	0.0473	3.9392	2.0411	9.77E-02
359	0.00	0.000	0.717	0.0449	3.3838	1.7534	9.61E-02
360	0.00	0.000	0.728	0.0425	2.9036	1.5045	9.48E-02
361	0.00	0.000	0.698	0.0402	2.4884	1.2894	9.36E-02
362	0.00	0.000	0.672	0.0379	2.1293	1.1033	9.25E-02
363	1.60	0.000	0.765	0.0407	1.8188	0.9424	9.16E-02
364	8.00	0.000	0.746	0.0649	1.5503	0.8033	9.09E-02
365	31.00	0.000	5.361	0.0947	1.3211	0.6845	9.02E-02

* = Frozen (air or soil)

Annual Totals for Year 13			
	mm*	cubic meters	percent
Precipitation	1,713.80	17,138.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	315.323	3,153.2	18.40
Drainage Collected from Layer 2	1,376.0891	13,760.9	80.29
Percolation/Leakage through Layer 3	47.965655	479.7	2.80
Average Head on Top of Layer 3	27.6261 (cm)	---	---
Change in Water Storage	-25.5779	-255.8	-1.49
Soil Water at Start of Year	920.8154	9,208.2	53.73
Soil Water at End of Year	895.2375	8,952.4	52.24
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 14

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	5.381	0.0486		1.1209	0.5808	8.96E-02
2			2.40	0.000	5.706	0.0366		1.2863	0.6665	9.01E-02
3			0.40	0.000	3.208	0.0273		2.5406	1.3164	9.37E-02
4			36.40	0.000	5.135	0.0871		3.8080	1.9731	9.74E-02
5			10.40	0.000	5.283	0.0646		4.2951	2.2255	9.88E-02
6	*Note: head c		1.00	0.000	3.706	0.0540		3.9837	2.0642	9.79E-02
7			5.20	0.000	4.023	0.0565		4.7979	2.4861	1.00E-01
8			0.00	0.000	3.213	0.0458		5.8192	3.0153	1.03E-01
9			3.00	0.000	3.077	0.0455		6.6919	3.4675	1.06E-01
10			0.80	0.000	2.852	0.0387		7.3389	3.8027	1.08E-01
11			0.00	0.000	3.078	0.0284		7.8133	4.0485	1.09E-01
12			9.60	0.000	3.288	0.0495		7.5491	3.9116	1.08E-01
13			201.40	0.000	3.450	0.1501		6.6145	3.4274	1.05E-01
14			23.00	0.000	3.074	0.0930		5.7310	2.9696	1.03E-01
15			53.40	0.000	4.347	0.0953		8.9091	4.6164	1.12E-01
16			10.00	0.000	4.168	0.0621		9.0231	4.6754	1.12E-01
17			5.40	0.000	3.209	0.0629		14.6556	7.5939	1.29E-01
18			4.80	0.000	3.041	0.0652		21.5971	11.1907	1.49E-01
19			0.20	0.000	2.960	0.0528		26.0489	13.4975	1.61E-01
20			6.00	0.000	5.559	0.0520		28.3005	14.6642	1.68E-01
21			1.20	0.000	5.635	0.0372		29.3969	15.2323	1.71E-01

22	1.20	0.000	5.166	0.0239	29.6742	15.3760	1.72E-01
23	5.20	0.000	3.254	0.0304	29.3551	15.2106	1.71E-01
24	22.80	0.000	4.928	0.0900	28.6405	14.8403	1.69E-01
25	44.60	0.000	5.002	0.0944	27.5814	14.2915	1.66E-01
26	53.40	0.000	5.719	0.0957	24.4797	12.6844	1.57E-01
27	28.40	0.000	5.451	0.0953	21.1553	10.9618	1.47E-01
28	1.40	0.000	5.317	0.0427	19.1346	9.9148	1.42E-01
29	22.40	0.000	5.791	0.0946	20.6178	10.6833	1.46E-01
30	72.30	0.000	6.225	0.1007	23.2531	12.0488	1.53E-01
31	42.00	0.000	6.527	0.0984	21.0525	10.9085	1.47E-01
32	64.20	0.000	6.232	0.0963	20.1804	10.4566	1.45E-01
33	107.80	0.000	3.345	0.1146	18.6886	9.6837	1.40E-01
34	138.00	0.000	3.467	0.1251	18.5731	9.6238	1.40E-01
35	171.60	0.000	5.134	0.1368	316.0887	22.4076	9.97E-01
36	11.00	0.000	5.059	0.0651	661.5485	32.6953	1.99E+00
37	10.40	0.000	5.047	0.0670	643.3103	32.0653	1.94E+00
38	97.00	0.000	6.213	0.1118	627.9725	31.5381	1.89E+00
39	138.00	0.000	6.081	0.1250	691.4691	33.7917	2.08E+00
40	56.00	0.000	6.970	0.0932	766.8475	36.6182	2.29E+00
41	5.80	0.000	7.131	0.0590	772.6367	36.8266	2.31E+00
42	0.00	0.000	6.672	0.0361	742.2027	35.7319	2.22E+00
43	36.40	0.000	6.324	0.0823	703.1107	34.1409	2.11E+00
44	35.40	0.000	6.577	0.0882	683.5852	33.4597	2.06E+00
45	9.00	0.000	5.164	0.0613	673.1150	33.0960	2.02E+00
46	1.00	0.000	4.732	0.0483	648.5157	32.2449	1.95E+00
47	5.60	0.000	6.277	0.0460	614.1897	31.0651	1.86E+00
48	49.90	0.000	6.683	0.1089	580.7809	29.9260	1.76E+00
49	0.00	0.000	6.169	0.0445	578.8343	29.8597	1.75E+00
50	0.00	0.000	5.383	0.0265	553.2858	28.9959	1.68E+00

51	0.00	0.000	1.858	0.0190	521.7748	27.9382	1.59E+00
52	0.00	0.000	0.000	0.0190	491.2386	26.9221	1.50E+00
53	41.40	0.000	6.115	0.0831	461.7408	25.9495	1.42E+00
54	57.60	0.000	6.452	0.0888	454.3005	25.7056	1.39E+00
55	25.00	0.000	6.788	0.0954	472.5228	26.3037	1.45E+00
56	4.60	0.000	6.190	0.0520	464.0399	26.0247	1.42E+00
57	18.30	0.000	4.833	0.0854	444.7121	25.3922	1.37E+00
58	0.00	0.000	5.354	0.0432	420.8761	24.6176	1.30E+00
59	0.00	0.000	6.324	0.0221	400.7987	23.9708	1.24E+00
60	0.00	0.000	0.934	0.0190	374.9156	23.1446	1.17E+00
61	0.00	0.000	0.000	0.0190	349.6914	22.2764	1.09E+00
62	0.00	0.000	0.000	0.0190	325.4341	21.5130	1.02E+00
63	0.00	0.000	0.000	0.0190	302.0180	20.8109	9.56E-01
64	0.00	0.000	0.000	0.0190	279.3977	20.1427	8.91E-01
65	0.00	0.000	0.000	0.0190	257.5352	19.5081	8.28E-01
66	0.60	0.000	0.173	0.0204	236.3928	18.9073	7.67E-01
67	2.80	0.000	0.608	0.0277	215.9326	18.3409	7.08E-01
68	3.80	0.000	0.547	0.0386	196.1160	17.7979	6.51E-01
69	0.00	0.000	0.894	0.0356	90.1283	16.0354	3.46E-01
70	1.40	0.000	0.950	0.0371	59.4656	15.5957	2.58E-01
71	28.20	0.000	0.887	0.0830	56.8257	15.5911	2.50E-01
72	0.00	0.000	6.587	0.0364	49.0459	15.5777	2.28E-01
73	18.80	0.000	6.680	0.0768	42.0610	15.5656	2.08E-01
74	0.00	0.000	6.093	0.0469	37.2409	15.5573	1.94E-01
75	0.00	0.000	5.412	0.0287	29.2409	15.1514	1.71E-01
76	0.20	0.000	3.097	0.0190	27.9865	14.5014	1.67E-01
77	0.00	0.000	0.000	0.0190	26.6698	13.8192	1.63E-01
78	0.00	0.000	0.000	0.0190	25.3125	13.1159	1.59E-01
79	0.00	0.000	0.000	0.0190	23.9528	12.4113	1.55E-01

80	0.00	0.000	0.000	0.0190	22.6171	11.7193	1.52E-01
81	0.00	0.000	0.000	0.0190	21.3233	11.0489	1.48E-01
82	0.00	0.000	0.000	0.0190	20.0831	10.4062	1.44E-01
83	0.00	0.000	0.000	0.0190	18.9035	9.7950	1.41E-01
84	0.00	0.000	0.000	0.0190	17.8160	9.2315	1.38E-01
85	0.00	0.000	0.000	0.0190	15.9747	8.2774	1.32E-01
86	0.00	0.000	0.000	0.0190	13.7910	7.1459	1.26E-01
87	0.00	0.000	0.000	0.0190	11.9028	6.1676	1.21E-01
88	0.00	0.000	0.000	0.0190	10.2701	5.3215	1.16E-01
89	0.00	0.000	0.000	0.0190	8.8582	4.5900	1.12E-01
90	0.00	0.000	0.000	0.0190	7.6374	3.9574	1.08E-01
91	0.00	0.000	0.000	0.0190	6.5817	3.4104	1.05E-01
92	0.00	0.000	0.000	0.0190	5.6688	2.9373	1.03E-01
93	0.00	0.000	0.000	0.0190	4.8794	2.5283	1.00E-01
94	0.00	0.000	0.000	0.0190	4.1969	2.1747	9.85E-02
95	0.00	0.000	0.000	0.0190	3.6067	1.8688	9.68E-02
96	0.00	0.000	0.000	0.0190	3.0963	1.6044	9.53E-02
97	0.00	0.000	0.000	0.0190	2.6550	1.3757	9.40E-02
98	0.00	0.000	0.000	0.0190	2.2733	1.1779	9.29E-02
99	0.00	0.000	0.000	0.0190	1.9433	1.0070	9.20E-02
100	0.20	0.000	0.086	0.0194	1.6580	0.8591	9.12E-02
101	3.20	0.000	0.260	0.0292	1.4113	0.7313	9.05E-02
102	8.40	0.000	0.387	0.0559	1.1979	0.6207	8.98E-02
103	6.00	0.000	0.529	0.0654	1.0714	0.5552	8.95E-02
104	3.80	0.000	0.536	0.0607	1.1514	0.5966	8.97E-02
105	57.80	0.000	0.527	0.1053	1.4254	0.7386	9.05E-02
106	1.20	0.000	4.675	0.0454	1.2952	0.6711	9.01E-02
107	1.20	0.000	4.771	0.0335	1.9705	1.0210	9.21E-02
108	0.00	0.000	4.098	0.0198	4.0648	2.1062	9.81E-02

109	0.00	0.000	0.190	0.0192	5.7293	2.9687	1.03E-01
110	0.00	0.000	0.047	0.0191	6.9878	3.6208	1.07E-01
111	0.00	0.000	0.012	0.0190	7.9204	4.1040	1.09E-01
112	0.00	0.000	0.003	0.0190	8.5914	4.4517	1.11E-01
113	0.00	0.000	0.001	0.0190	9.0530	4.6909	1.12E-01
114	0.00	0.000	0.000	0.0190	9.3474	4.8434	1.13E-01
115	0.00	0.000	0.000	0.0190	9.4925	4.9186	1.14E-01
116	0.00	0.000	0.000	0.0190	8.5617	4.4363	1.11E-01
117	0.00	0.000	0.000	0.0190	7.3809	3.8245	1.08E-01
118	0.00	0.000	0.000	0.0190	6.3599	3.2955	1.05E-01
119	0.00	0.000	0.000	0.0190	5.4771	2.8380	1.02E-01
120	0.00	0.000	0.000	0.0190	4.7137	2.4424	1.00E-01
121	0.00	0.000	0.000	0.0190	4.0535	2.1004	9.81E-02
122	0.00	0.000	0.000	0.0190	3.4827	1.8046	9.64E-02
123	0.00	0.000	0.000	0.0190	2.9891	1.5488	9.50E-02
124	0.00	0.000	0.000	0.0190	2.5623	1.3277	9.38E-02
125	0.00	0.000	0.000	0.0190	2.1932	1.1364	9.27E-02
126	0.60	0.000	0.103	0.0207	1.8740	0.9710	9.18E-02
127	0.00	0.000	0.290	0.0197	1.5981	0.8281	9.10E-02
128	10.80	0.000	0.492	0.0541	1.3594	0.7044	9.03E-02
129	3.00	0.000	0.633	0.0619	1.1531	0.5975	8.97E-02
130	0.10	0.000	0.666	0.0579	1.0336	0.5356	8.94E-02
131	0.00	0.000	0.609	0.0531	1.0850	0.5622	8.95E-02
132	6.50	0.000	0.636	0.0656	1.0727	0.5558	8.95E-02
133	0.00	0.000	0.577	0.0590	1.0977	0.5688	8.96E-02
134	0.00	0.000	0.563	0.0537	1.6350	0.8472	9.11E-02
135	0.00	0.000	0.550	0.0507	1.6625	0.8614	9.12E-02
136	0.00	0.000	0.537	0.0489	1.4664	0.7598	9.06E-02
137	0.00	0.000	0.526	0.0472	1.2456	0.6454	9.00E-02

138	0.00	0.000	0.515	0.0455	1.0547	0.5465	8.94E-02
139	0.00	0.000	0.505	0.0438	0.8895	0.4609	8.90E-02
140	0.00	0.000	0.495	0.0421	0.7468	0.3869	8.85E-02
141	0.00	0.000	0.486	0.0405	0.6233	0.3230	8.82E-02
142	0.00	0.000	0.477	0.0389	0.5165	0.2677	8.79E-02
143	0.00	0.000	0.469	0.0374	0.4242	0.2198	8.76E-02
144	0.00	0.000	0.461	0.0358	0.3444	0.1785	8.74E-02
145	0.00	0.000	0.454	0.0343	0.2754	0.1427	8.72E-02
146	0.60	0.000	0.495	0.0347	0.2157	0.1118	8.70E-02
147	0.00	0.000	0.440	0.0332	0.1641	0.0850	8.69E-02
148	0.00	0.000	0.407	0.0318	0.1194	0.0619	8.67E-02
149	0.00	0.000	0.410	0.0305	0.0808	0.0419	8.66E-02
150	0.00	0.000	0.416	0.0291	0.0475	0.0246	8.65E-02
151	0.00	0.000	0.415	0.0277	0.0186	0.0096	8.65E-02
152	0.40	0.000	0.460	0.0275	0.0006	0.0001	8.86E-03
153	0.20	0.000	0.455	0.0266	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.400	0.0253	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.387	0.0240	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.381	0.0227	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.380	0.0215	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.381	0.0199	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.270	0.0190	0.0157	0.0081	8.58E-02
160	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.20	0.000	0.074	0.0194	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.023	0.0193	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.048	0.0192	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.043	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.010	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	1.85E-08
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	2.40	0.000	0.146	0.0265	0.0000	0.0000	0.00E+00
246	0.80	0.000	0.146	0.0287	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.148	0.0282	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.148	0.0277	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.180	0.0271	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.179	0.0265	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.179	0.0259	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.178	0.0253	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.177	0.0247	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.177	0.0241	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.176	0.0236	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.173	0.0230	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.175	0.0224	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.174	0.0218	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.193	0.0212	0.0000	0.0000	0.00E+00
260	0.80	0.000	0.253	0.0230	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.191	0.0224	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.196	0.0217	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.192	0.0211	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.189	0.0204	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.189	0.0198	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.187	0.0192	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.047	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.008	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	3.00	0.000	0.148	0.0285	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.081	0.0282	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.130	0.0278	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.137	0.0273	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.159	0.0268	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.158	0.0263	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.158	0.0258	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.157	0.0252	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.157	0.0247	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.156	0.0242	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.156	0.0237	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.135	0.0232	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.155	0.0227	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.155	0.0222	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.154	0.0217	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.171	0.0211	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.170	0.0205	0.0000	0.0000	0.00E+00
301	1.00	0.000	0.244	0.0231	0.0000	0.0000	0.00E+00
302	0.40	0.000	0.244	0.0236	0.0000	0.0000	0.00E+00
303	0.50	0.000	0.248	0.0244	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.180	0.0238	0.0000	0.0000	0.00E+00
305	2.20	0.000	0.247	0.0303	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.165	0.0298	0.0000	0.0000	4.49E-04
307	0.00	0.000	0.132	0.0293	0.0000	0.0000	4.64E-04
308	0.00	0.000	0.151	0.0288	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.150	0.0283	0.0000	0.0000	0.00E+00
310	1.40	0.000	0.229	0.0322	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.156	0.0317	0.0000	0.0000	0.00E+00

312	2.60	0.000	0.244	0.0396	0.0000	0.0000	0.00E+00
313	1.40	0.000	0.238	0.0434	0.0000	0.0000	0.00E+00
314	1.80	0.000	0.247	0.0486	0.0000	0.0000	0.00E+00
315	0.10	0.000	0.222	0.0482	0.0000	0.0000	0.00E+00
316	10.60	0.000	0.257	0.0758	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.179	0.0568	0.0287	0.0149	8.65E-02
318	0.00	0.000	0.178	0.0535	0.4579	0.2373	8.77E-02
319	0.00	0.000	0.178	0.0524	1.4816	0.7677	9.07E-02
320	0.00	0.000	0.177	0.0518	1.8810	0.9747	9.18E-02
321	0.00	0.000	0.177	0.0512	1.6041	0.8312	9.10E-02
322	0.00	0.000	0.176	0.0506	1.3646	0.7071	9.03E-02
323	0.00	0.000	0.176	0.0500	1.1576	0.5998	8.97E-02
324	0.00	0.000	0.176	0.0494	0.9785	0.5070	8.92E-02
325	0.00	0.000	0.175	0.0488	0.8237	0.4268	8.88E-02
326	3.00	0.000	0.265	0.0577	0.7083	0.3670	8.84E-02
327	0.00	0.000	0.174	0.0543	0.6084	0.3153	8.82E-02
328	0.30	0.000	0.262	0.0510	0.8534	0.4422	8.89E-02
329	2.50	0.000	0.266	0.0578	0.8691	0.4503	8.89E-02
330	0.00	0.000	0.173	0.0573	0.7434	0.3852	8.85E-02
331	0.00	0.000	0.173	0.0552	0.6421	0.3327	8.82E-02
332	0.00	0.000	0.172	0.0522	0.7022	0.3639	8.84E-02
333	0.00	0.000	0.172	0.0499	0.7498	0.3885	8.86E-02
334	1.00	0.000	0.267	0.0524	0.7048	0.3652	8.84E-02
335	0.00	0.000	0.171	0.0515	0.5946	0.3081	8.81E-02
336	0.00	0.000	0.171	0.0509	0.5130	0.2658	8.79E-02
337	0.00	0.000	0.170	0.0503	0.4212	0.2182	8.76E-02
338	0.00	0.000	0.170	0.0497	0.3417	0.1771	8.74E-02
339	0.00	0.000	0.170	0.0492	0.2731	0.1415	8.72E-02
340	0.00	0.000	0.169	0.0486	0.2137	0.1107	8.70E-02

341	0.00	0.000	0.169	0.0481	0.1624	0.0841	8.69E-02
342	0.00	0.000	0.169	0.0475	0.1180	0.0611	8.67E-02
343	0.00	0.000	0.168	0.0469	0.0796	0.0412	8.66E-02
344	0.00	0.000	0.168	0.0464	0.0464	0.0240	8.65E-02
345	0.00	0.000	0.167	0.0458	0.0177	0.0092	8.64E-02
346	0.00	0.000	0.167	0.0453	0.0004	0.0001	5.74E-03
347	0.00	0.000	0.167	0.0447	0.0000	0.0000	0.00E+00
348	0.00	0.000	0.166	0.0441	0.0000	0.0000	0.00E+00
349	4.80	0.000	0.267	0.0593	0.0000	0.0000	0.00E+00
350	0.20	0.000	0.253	0.0566	0.0000	0.0000	0.00E+00
351	0.40	0.000	0.264	0.0551	0.2470	0.1280	8.71E-02
352	0.00	0.000	0.165	0.0541	0.3106	0.1609	8.73E-02
353	0.00	0.000	0.165	0.0535	0.2551	0.1322	8.71E-02
354	0.00	0.000	0.164	0.0530	0.1982	0.1027	8.70E-02
355	0.60	0.000	0.266	0.0535	0.1667	0.0864	8.69E-02
356	0.40	0.000	0.265	0.0528	0.1879	0.0973	8.69E-02
357	0.00	0.000	0.163	0.0512	0.2195	0.1137	8.70E-02
358	0.00	0.000	0.163	0.0498	0.2461	0.1275	8.71E-02
359	0.00	0.000	0.163	0.0484	0.2576	0.1335	8.71E-02
360	18.40	0.000	0.268	0.0939	0.2574	0.1333	8.71E-02
361	1.80	0.000	0.268	0.0593	0.2330	0.1207	8.71E-02
362	4.00	0.000	0.268	0.0583	0.4170	0.2161	8.76E-02
363	0.20	0.000	5.728	0.0386	1.0466	0.5423	8.94E-02
364	1.00	0.000	0.268	0.0400	2.0570	1.0658	9.23E-02
365	228.80	0.000	0.269	0.1573	3.1047	1.6087	9.53E-02

* = Frozen (air or soil)

Annual Totals for Year 14			
	mm*	cubic meters	percent
Precipitation	2,208.70	22,087.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	379.410	3,794.1	17.18
Drainage Collected from Layer 2	1,550.7520	15,507.5	70.21
Percolation/Leakage through Layer 3	69.591503	695.9	3.15
Average Head on Top of Layer 3	50.0793 (cm)	---	---
Change in Water Storage	208.9469	2,089.5	9.46
Soil Water at Start of Year	895.2375	8,952.4	40.53
Soil Water at End of Year	1,104.1844	11,041.8	49.99
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 15

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			7.00	0.000	4.601	0.0548		2.9039	1.5047	9.48E-02
2			6.20	0.000	4.642	0.0600		9.2380	4.7868	1.13E-01
3			9.80	0.000	4.704	0.0647		16.6692	8.6373	1.34E-01
4			1.20	0.000	5.433	0.0464		20.4869	10.6155	1.45E-01
5			1.20	0.000	5.516	0.0317		22.9414	11.8873	1.52E-01
6	*Note: head c		0.00	0.000	3.653	0.0195		24.5549	12.7233	1.57E-01
7			1.80	0.000	1.033	0.0221		25.3068	13.1130	1.59E-01
8			28.20	0.000	4.778	0.1001		25.4391	13.1815	1.60E-01
9			12.60	0.000	3.998	0.0735		24.9998	12.9539	1.58E-01
10			4.40	0.000	5.519	0.0558		23.2390	12.0415	1.53E-01
11			0.60	0.000	5.301	0.0387		21.4693	11.1245	1.48E-01
12			0.00	0.000	5.098	0.0193		21.4807	11.1304	1.48E-01
13			0.00	0.000	0.066	0.0191		21.2507	11.0113	1.48E-01
14			0.00	0.000	0.020	0.0190		20.9137	10.8366	1.47E-01
15			0.00	0.000	0.005	0.0190		20.3928	10.5667	1.45E-01
16			0.00	0.000	0.001	0.0190		19.7479	10.2325	1.43E-01
17			26.80	0.000	4.704	0.0927		19.0236	9.8572	1.41E-01
18			0.00	0.000	6.217	0.0455		18.2182	9.4399	1.39E-01
19			0.00	0.000	6.504	0.0238		16.6637	8.6345	1.34E-01
20			0.00	0.000	1.443	0.0190		16.0133	8.2974	1.33E-01
21			0.00	0.000	0.000	0.0190		15.4923	8.0275	1.31E-01

22	0.00	0.000	0.000	0.0190	14.9352	7.7388	1.29E-01
23	0.50	0.000	0.189	0.0200	14.3907	7.4567	1.28E-01
24	2.00	0.000	0.624	0.0246	13.0280	6.7506	1.24E-01
25	79.40	0.000	1.256	0.1164	11.2430	5.8257	1.19E-01
26	45.00	0.000	3.529	0.0977	9.6995	5.0259	1.14E-01
27	41.80	0.000	3.095	0.0950	8.3648	4.3343	1.10E-01
28	85.40	0.000	2.872	0.1047	7.2107	3.7363	1.07E-01
29	55.20	0.000	3.207	0.0934	6.2259	3.2260	1.04E-01
30	47.80	0.000	2.862	0.0929	6.1848	3.2047	1.04E-01
31	74.00	0.000	5.563	0.1019	10.5321	5.4573	1.17E-01
32	0.00	0.000	4.595	0.0417	16.4437	8.5204	1.34E-01
33	0.40	0.000	6.568	0.0211	108.1846	16.3384	3.98E-01
34	0.00	0.000	0.474	0.0190	309.1306	21.0232	9.77E-01
35	0.00	0.000	0.000	0.0190	286.3103	20.3458	9.11E-01
36	0.00	0.000	0.000	0.0190	264.2174	19.7008	8.47E-01
37	0.00	0.000	0.000	0.0190	242.8563	19.0895	7.86E-01
38	17.60	0.000	1.779	0.0717	222.1893	18.5123	7.26E-01
39	0.00	0.000	5.451	0.0443	202.1779	17.9704	6.69E-01
40	1.20	0.000	4.809	0.0322	58.8666	15.5946	2.56E-01
41	0.20	0.000	3.996	0.0196	59.8252	15.5963	2.59E-01
42	21.40	0.000	1.779	0.0850	58.4027	15.5938	2.55E-01
43	50.80	0.000	5.611	0.0884	52.7700	15.5841	2.38E-01
44	0.20	0.000	4.742	0.0408	39.3444	15.5609	2.00E-01
45	17.40	0.000	5.693	0.0780	35.1173	15.5536	1.88E-01
46	3.40	0.000	5.936	0.0553	33.7743	15.5282	1.84E-01
47	13.40	0.000	5.256	0.0727	28.9270	14.9888	1.70E-01
48	27.20	0.000	4.458	0.0911	28.1937	14.6088	1.68E-01
49	35.00	0.000	3.054	0.0911	25.1166	13.0144	1.59E-01
50	109.00	0.000	3.942	0.1131	21.6962	11.2421	1.49E-01

51	2.60	0.000	5.799	0.0504	18.7904	9.7364	1.41E-01
52	0.00	0.000	5.762	0.0307	23.7591	12.3110	1.55E-01
53	0.90	0.000	4.071	0.0201	35.8370	15.3304	1.90E-01
54	5.40	0.000	2.804	0.0287	50.4436	15.5801	2.32E-01
55	0.00	0.000	1.913	0.0224	56.6230	15.5908	2.49E-01
56	1.80	0.000	1.712	0.0227	58.9817	15.5948	2.56E-01
57	47.20	0.000	5.816	0.0903	58.5595	15.5941	2.55E-01
58	32.20	0.000	3.093	0.0838	47.4916	15.5750	2.23E-01
59	131.40	0.000	4.577	0.1198	35.4360	15.5109	1.88E-01
60	16.00	0.000	5.775	0.0736	27.2305	14.1097	1.65E-01
61	16.00	0.000	5.814	0.0758	45.4503	15.4134	2.17E-01
62	0.00	0.000	6.946	0.0402	288.6875	20.4155	9.18E-01
63	24.20	0.000	7.129	0.0920	270.5646	19.8849	8.66E-01
64	0.00	0.000	5.375	0.0378	156.8354	17.5123	5.38E-01
65	0.00	0.000	4.753	0.0215	196.5874	18.1980	6.53E-01
66	0.00	0.000	0.764	0.0190	223.5621	18.5502	7.30E-01
67	0.00	0.000	0.000	0.0190	203.5078	18.0058	6.72E-01
68	0.00	0.000	0.000	0.0190	153.8919	17.0085	5.30E-01
69	5.20	0.000	2.105	0.0293	59.8074	15.5963	2.59E-01
70	1.20	0.000	1.311	0.0289	57.9494	15.5930	2.53E-01
71	8.40	0.000	1.370	0.0524	54.3079	15.5868	2.43E-01
72	3.40	0.000	4.180	0.0498	49.2547	15.5780	2.28E-01
73	2.10	0.000	5.943	0.0369	43.0600	15.5673	2.10E-01
74	0.90	0.000	4.987	0.0219	35.0108	15.5393	1.87E-01
75	0.40	0.000	0.928	0.0202	28.6749	14.8582	1.69E-01
76	0.00	0.000	0.218	0.0195	26.8087	13.8912	1.64E-01
77	1.20	0.000	0.293	0.0225	25.0422	12.9758	1.59E-01
78	0.00	0.000	0.538	0.0207	23.3815	12.1153	1.54E-01
79	0.00	0.000	0.394	0.0194	21.8287	11.3107	1.49E-01

80	3.20	0.000	0.545	0.0282	20.3827	10.5615	1.45E-01
81	0.00	0.000	0.411	0.0269	18.9688	9.8288	1.41E-01
82	183.20	0.000	0.916	0.1454	16.6407	8.6225	1.34E-01
83	6.20	0.000	5.514	0.0588	14.6243	7.5777	1.29E-01
84	1.40	0.000	5.151	0.0426	17.4624	9.0483	1.37E-01
85	0.00	0.000	5.495	0.0243	20.5826	10.6651	1.46E-01
86	0.00	0.000	1.521	0.0192	22.4898	11.6533	1.51E-01
87	0.00	0.000	0.044	0.0190	23.4804	12.1666	1.54E-01
88	0.00	0.000	0.011	0.0190	23.8275	12.3464	1.55E-01
89	1.60	0.000	0.711	0.0220	23.7234	12.2925	1.55E-01
90	1.80	0.000	1.641	0.0225	23.3054	12.0759	1.54E-01
91	4.80	0.000	1.625	0.0331	22.6732	11.7483	1.52E-01
92	0.50	0.000	3.040	0.0246	21.8998	11.3476	1.49E-01
93	0.00	0.000	1.417	0.0199	21.0386	10.9014	1.47E-01
94	3.50	0.000	0.869	0.0287	20.1290	10.4300	1.44E-01
95	0.30	0.000	0.651	0.0275	19.1996	9.9485	1.42E-01
96	2.00	0.000	1.043	0.0307	18.2711	9.4673	1.39E-01
97	1.20	0.000	0.937	0.0316	17.3582	8.9943	1.36E-01
98	0.00	0.000	0.847	0.0287	16.4741	8.5362	1.34E-01
99	0.00	0.000	0.788	0.0261	15.1408	7.8454	1.30E-01
100	0.00	0.000	0.727	0.0237	13.0700	6.7723	1.24E-01
101	0.00	0.000	0.713	0.0213	11.2794	5.8445	1.19E-01
102	0.00	0.000	0.609	0.0193	9.7309	5.0422	1.14E-01
103	0.00	0.000	0.073	0.0190	8.3920	4.3484	1.11E-01
104	5.20	0.000	0.362	0.0352	7.2342	3.7485	1.07E-01
105	0.00	0.000	0.466	0.0336	6.2331	3.2297	1.04E-01
106	0.00	0.000	0.550	0.0318	5.3674	2.7812	1.02E-01
107	0.00	0.000	0.545	0.0300	4.6188	2.3933	9.97E-02
108	0.20	0.000	0.619	0.0286	3.9715	2.0579	9.78E-02

109	1.60	0.000	0.604	0.0319	3.4118	1.7678	9.62E-02
110	0.00	0.000	0.540	0.0301	2.9278	1.5170	9.48E-02
111	0.00	0.000	0.526	0.0283	2.5092	1.3002	9.36E-02
112	0.00	0.000	0.513	0.0266	2.1473	1.1127	9.26E-02
113	0.00	0.000	0.508	0.0249	1.8344	0.9505	9.17E-02
114	4.40	0.000	0.547	0.0378	1.5638	0.8103	9.09E-02
115	2.60	0.000	0.559	0.0446	1.3298	0.6890	9.02E-02
116	0.00	0.000	0.508	0.0429	1.1276	0.5843	8.96E-02
117	0.00	0.000	0.478	0.0413	0.9535	0.4940	8.91E-02
118	0.00	0.000	0.479	0.0397	0.8020	0.4156	8.87E-02
119	0.00	0.000	0.470	0.0381	0.6711	0.3477	8.83E-02
120	0.00	0.000	0.462	0.0366	0.5579	0.2891	8.80E-02
121	0.00	0.000	0.449	0.0351	0.4600	0.2383	8.77E-02
122	0.00	0.000	0.461	0.0335	0.3753	0.1945	8.75E-02
123	0.00	0.000	0.454	0.0320	0.3021	0.1565	8.73E-02
124	0.00	0.000	0.447	0.0305	0.2388	0.1237	8.71E-02
125	0.00	0.000	0.440	0.0291	0.1841	0.0954	8.69E-02
126	0.00	0.000	0.434	0.0276	0.1368	0.0709	8.68E-02
127	0.00	0.000	0.428	0.0262	0.0958	0.0497	8.67E-02
128	0.00	0.000	0.422	0.0248	0.0604	0.0313	8.66E-02
129	0.00	0.000	0.416	0.0234	0.0298	0.0155	8.65E-02
130	0.00	0.000	0.411	0.0220	0.0048	0.0025	4.39E-02
131	0.00	0.000	0.405	0.0207	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.400	0.0193	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.103	0.0190	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
154	1.30	0.000	0.085	0.0230	0.0000	0.0000	0.00E+00
155	17.30	0.000	0.321	0.0796	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.307	0.0475	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.315	0.0430	0.1138	0.0590	4.35E-02
158	0.00	0.000	0.312	0.0411	1.0144	0.5256	8.93E-02
159	0.00	0.000	0.310	0.0400	2.1085	1.0925	9.25E-02
160	0.00	0.000	0.308	0.0385	2.2664	1.1744	9.29E-02
161	0.00	0.000	0.306	0.0370	1.9862	1.0292	9.21E-02
162	0.00	0.000	0.304	0.0356	1.7306	0.8967	9.14E-02
163	0.00	0.000	0.298	0.0346	1.4902	0.7722	9.07E-02
164	0.00	0.000	0.299	0.0336	1.2662	0.6561	9.00E-02
165	0.00	0.000	0.297	0.0326	1.0724	0.5557	8.95E-02
166	0.00	0.000	0.295	0.0316	0.9049	0.4689	8.90E-02

167	0.00	0.000	0.293	0.0307	0.7601	0.3938	8.86E-02
168	0.00	0.000	0.291	0.0297	0.6348	0.3289	8.82E-02
169	0.00	0.000	0.289	0.0287	0.5265	0.2728	8.79E-02
170	0.00	0.000	0.288	0.0278	0.4328	0.2243	8.76E-02
171	0.00	0.000	0.286	0.0268	0.3518	0.1823	8.74E-02
172	0.00	0.000	0.284	0.0259	0.2818	0.1460	8.72E-02
173	0.00	0.000	0.282	0.0249	0.2212	0.1146	8.70E-02
174	0.00	0.000	0.281	0.0240	0.1689	0.0875	8.69E-02
175	0.00	0.000	0.279	0.0231	0.1236	0.0640	8.68E-02
176	0.60	0.000	0.341	0.0239	0.0844	0.0438	8.66E-02
177	0.90	0.000	0.339	0.0258	0.0506	0.0262	8.65E-02
178	0.00	0.000	0.274	0.0249	0.0213	0.0110	8.65E-02
179	0.00	0.000	0.272	0.0240	0.0012	0.0005	1.74E-02
180	0.00	0.000	0.271	0.0231	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.269	0.0222	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.268	0.0213	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.266	0.0204	0.0000	0.0000	0.00E+00
184	0.60	0.000	0.308	0.0214	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.246	0.0205	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.179	0.0199	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.172	0.0194	0.0000	0.0000	0.00E+00
188	0.40	0.000	0.137	0.0202	0.0000	0.0000	0.00E+00
189	2.10	0.000	0.187	0.0266	0.0000	0.0000	0.00E+00
190	4.50	0.000	0.177	0.0410	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.211	0.0403	0.0000	0.0000	0.00E+00
192	0.10	0.000	0.284	0.0397	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.231	0.0389	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.244	0.0381	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.242	0.0373	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.241	0.0365	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.240	0.0357	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.239	0.0349	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.238	0.0341	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.237	0.0333	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.236	0.0326	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.235	0.0318	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.234	0.0310	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.234	0.0302	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.232	0.0294	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.231	0.0287	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.231	0.0279	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.230	0.0271	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.235	0.0263	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.234	0.0256	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.233	0.0248	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.232	0.0240	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.231	0.0232	0.0000	0.0000	0.00E+00
214	0.10	0.000	0.286	0.0226	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.225	0.0219	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.226	0.0211	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.227	0.0204	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.226	0.0196	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.183	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	2.10	0.000	0.173	0.0254	0.0000	0.0000	0.00E+00
223	46.80	0.000	0.301	0.0981	0.0449	0.0233	2.17E-02
224	0.00	0.000	5.244	0.0434	0.1498	0.0776	8.68E-02

225	0.00	0.000	4.790	0.0261	0.4026	0.2086	8.76E-02
226	0.00	0.000	2.120	0.0191	1.9378	1.0041	9.20E-02
227	0.00	0.000	0.014	0.0190	3.4559	1.7907	9.64E-02
228	0.00	0.000	0.005	0.0190	4.6476	2.4082	9.98E-02
229	0.10	0.000	0.100	0.0190	5.5693	2.8858	1.02E-01
230	0.00	0.000	0.000	0.0190	6.2841	3.2562	1.04E-01
231	1.50	0.000	0.278	0.0231	6.1989	3.2120	1.04E-01
232	0.00	0.000	0.677	0.0208	5.3378	2.7658	1.02E-01
233	0.00	0.000	0.336	0.0197	4.5932	2.3800	9.96E-02
234	0.30	0.000	0.337	0.0196	3.9494	2.0464	9.78E-02
235	0.00	0.000	0.112	0.0192	3.3926	1.7579	9.62E-02
236	0.00	0.000	0.043	0.0191	2.9112	1.5085	9.48E-02
237	0.00	0.000	0.013	0.0190	2.4949	1.2928	9.36E-02
238	2.80	0.000	0.450	0.0268	2.1350	1.1062	9.25E-02
239	0.70	0.000	0.428	0.0278	1.8237	0.9450	9.17E-02
240	0.00	0.000	0.529	0.0260	1.5545	0.8055	9.09E-02
241	0.30	0.000	0.585	0.0250	1.3218	0.6849	9.02E-02
242	5.00	0.000	0.675	0.0395	1.1205	0.5806	8.96E-02
243	0.10	0.000	0.682	0.0375	0.9465	0.4904	8.91E-02
244	0.00	0.000	0.610	0.0355	0.7960	0.4125	8.87E-02
245	0.00	0.000	0.590	0.0335	0.6659	0.3450	8.83E-02
246	0.00	0.000	0.578	0.0316	0.5534	0.2867	8.80E-02
247	4.00	0.000	0.673	0.0427	0.4561	0.2363	8.77E-02
248	0.70	0.000	0.666	0.0428	0.3719	0.1927	8.75E-02
249	2.60	0.000	0.660	0.0493	0.2992	0.1550	8.73E-02
250	0.20	0.000	0.630	0.0478	0.2363	0.1224	8.71E-02
251	0.20	0.000	0.617	0.0464	0.1819	0.0942	8.69E-02
252	0.20	0.000	0.597	0.0451	0.1348	0.0699	8.68E-02
253	0.00	0.000	0.526	0.0434	0.0942	0.0488	8.67E-02

254	0.00	0.000	0.515	0.0416	0.0590	0.0306	8.66E-02
255	1.20	0.000	0.592	0.0437	0.0286	0.0148	8.65E-02
256	0.00	0.000	0.495	0.0420	0.0042	0.0021	4.01E-02
257	0.00	0.000	0.486	0.0404	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.477	0.0388	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.469	0.0372	0.0002	0.0000	3.07E-03
260	1.00	0.000	0.551	0.0387	0.0003	0.0000	3.80E-03
261	1.90	0.000	0.544	0.0432	0.0005	0.0001	7.68E-03
262	0.60	0.000	0.537	0.0434	0.0007	0.0003	1.43E-02
263	39.30	0.000	0.531	0.1029	0.0944	0.0489	4.35E-02
264	3.20	0.000	6.206	0.0450	0.2236	0.1159	8.70E-02
265	5.00	0.000	5.356	0.0419	0.9114	0.4723	8.90E-02
266	7.10	0.000	6.244	0.0448	2.4786	1.2843	9.35E-02
267	0.60	0.000	4.129	0.0328	3.8147	1.9766	9.74E-02
268	11.00	0.000	5.678	0.0506	4.9018	2.5399	1.01E-01
269	6.80	0.000	6.253	0.0524	5.7536	2.9813	1.03E-01
270	1.00	0.000	6.386	0.0344	6.3747	3.3031	1.05E-01
271	0.30	0.000	4.145	0.0216	5.8237	3.0176	1.03E-01
272	1.30	0.000	1.414	0.0212	5.0134	2.5977	1.01E-01
273	5.60	0.000	2.955	0.0300	4.3127	2.2347	9.88E-02
274	0.30	0.000	2.847	0.0216	3.7068	1.9207	9.71E-02
275	0.30	0.000	0.958	0.0194	3.1829	1.6492	9.56E-02
276	0.10	0.000	0.182	0.0191	2.7298	1.4145	9.43E-02
277	0.80	0.000	0.293	0.0208	2.3381	1.2115	9.31E-02
278	0.00	0.000	0.345	0.0196	1.9993	1.0360	9.22E-02
279	0.00	0.000	0.148	0.0191	1.7064	0.8842	9.13E-02
280	0.00	0.000	0.030	0.0190	1.4531	0.7529	9.06E-02
281	0.00	0.000	0.008	0.0190	1.2341	0.6395	9.00E-02
282	10.00	0.000	0.769	0.0498	1.0447	0.5413	8.94E-02

283	7.50	0.000	0.945	0.0657	0.9255	0.4796	8.91E-02
284	3.20	0.000	5.152	0.0522	1.1861	0.6146	8.98E-02
285	0.30	0.000	5.742	0.0332	1.5431	0.7996	9.08E-02
286	3.60	0.000	4.502	0.0302	1.3912	0.7209	9.04E-02
287	2.10	0.000	2.199	0.0289	1.1806	0.6117	8.98E-02
288	13.60	0.000	1.392	0.0696	1.0739	0.5565	8.95E-02
289	11.80	0.000	6.073	0.0625	0.9062	0.4696	8.90E-02
290	0.00	0.000	5.124	0.0450	0.8772	0.4545	8.89E-02
291	0.00	0.000	5.468	0.0268	1.6635	0.8620	9.12E-02
292	0.00	0.000	2.056	0.0190	2.4814	1.2857	9.35E-02
293	0.00	0.000	0.000	0.0190	2.1594	1.1189	9.26E-02
294	8.20	0.000	0.982	0.0431	1.8448	0.9559	9.17E-02
295	5.00	0.000	1.431	0.0550	1.5728	0.8150	9.09E-02
296	0.00	0.000	1.322	0.0506	1.3376	0.6931	9.03E-02
297	0.10	0.000	1.266	0.0466	1.1342	0.5877	8.97E-02
298	0.00	0.000	1.088	0.0430	0.9628	0.4989	8.92E-02
299	0.00	0.000	1.000	0.0396	0.8110	0.4202	8.87E-02
300	0.00	0.000	0.931	0.0365	0.6788	0.3517	8.84E-02
301	0.00	0.000	0.874	0.0336	0.5645	0.2925	8.80E-02
302	0.00	0.000	0.827	0.0309	0.4657	0.2413	8.77E-02
303	0.00	0.000	0.787	0.0282	0.3803	0.1971	8.75E-02
304	0.00	0.000	0.752	0.0257	0.3064	0.1588	8.73E-02
305	0.00	0.000	0.721	0.0233	0.2425	0.1257	8.71E-02
306	0.00	0.000	0.694	0.0210	0.1873	0.0970	8.69E-02
307	28.10	0.000	0.775	0.0974	0.1406	0.0728	8.68E-02
308	45.10	0.000	3.446	0.0995	0.1020	0.0529	8.67E-02
309	0.90	0.000	5.514	0.0495	0.0796	0.0412	8.66E-02
310	0.10	0.000	6.294	0.0289	0.8982	0.4654	8.90E-02
311	0.00	0.000	2.935	0.0191	2.8080	1.4550	9.45E-02

312	0.00	0.000	0.025	0.0190	4.5289	2.3467	9.94E-02
313	0.10	0.000	0.106	0.0190	5.8522	3.0324	1.03E-01
314	3.60	0.000	2.186	0.0237	6.8537	3.5513	1.06E-01
315	3.80	0.000	2.373	0.0285	7.5949	3.9354	1.08E-01
316	39.70	0.000	3.782	0.0883	8.1259	4.2105	1.10E-01
317	20.10	0.000	4.949	0.0885	8.0316	4.1617	1.10E-01
318	11.60	0.000	3.854	0.0691	7.4371	3.8536	1.08E-01
319	25.90	0.000	5.189	0.0904	6.7391	3.4919	1.06E-01
320	3.40	0.000	5.474	0.0519	5.9490	3.0825	1.04E-01
321	0.40	0.000	5.927	0.0335	5.7802	2.9950	1.03E-01
322	0.00	0.000	4.241	0.0193	7.4669	3.8690	1.08E-01
323	29.60	0.000	4.199	0.1040	8.8936	4.6083	1.12E-01
324	0.90	0.000	3.404	0.0475	9.8212	5.0890	1.15E-01
325	15.10	0.000	5.290	0.0769	9.7982	5.0770	1.15E-01
326	9.80	0.000	4.728	0.0634	10.2609	5.3168	1.16E-01
327	2.00	0.000	4.783	0.0482	9.6262	4.9879	1.14E-01
328	0.00	0.000	4.223	0.0341	9.5539	4.9504	1.14E-01
329	9.80	0.000	4.984	0.0502	10.4130	5.3956	1.16E-01
330	3.40	0.000	5.833	0.0420	11.0135	5.7067	1.18E-01
331	0.20	0.000	5.194	0.0253	11.3770	5.8951	1.19E-01
332	0.30	0.000	2.132	0.0192	11.5605	5.9902	1.20E-01
333	9.70	0.000	3.397	0.0402	11.6048	6.0131	1.20E-01
334	6.80	0.000	4.218	0.0489	11.5401	5.9796	1.20E-01
335	3.60	0.000	5.382	0.0429	11.3092	5.8600	1.19E-01
336	0.00	0.000	4.330	0.0285	10.0014	5.1823	1.15E-01
337	44.60	0.000	5.407	0.0908	8.6259	4.4696	1.11E-01
338	0.00	0.000	5.576	0.0334	7.4364	3.8533	1.08E-01
339	0.00	0.000	4.139	0.0190	6.9607	3.6067	1.06E-01
340	0.00	0.000	0.000	0.0190	7.6819	3.9804	1.09E-01

341	0.00	0.000	0.000	0.0190	8.3429	4.3229	1.10E-01
342	1.00	0.000	0.642	0.0202	8.8015	4.5606	1.12E-01
343	0.00	0.000	0.260	0.0193	9.0975	4.7140	1.13E-01
344	0.20	0.000	0.284	0.0190	9.0557	4.6923	1.12E-01
345	0.00	0.000	0.010	0.0190	7.9092	4.0982	1.09E-01
346	0.00	0.000	0.003	0.0190	6.8168	3.5322	1.06E-01
347	18.60	0.000	1.242	0.0769	5.8721	3.0427	1.03E-01
348	7.80	0.000	6.173	0.0555	5.0607	2.6222	1.01E-01
349	0.10	0.000	5.013	0.0354	4.5183	2.3412	9.94E-02
350	20.20	0.000	6.307	0.0817	4.8059	2.4902	1.00E-01
351	4.40	0.000	6.763	0.0551	5.3169	2.7550	1.02E-01
352	0.00	0.000	5.533	0.0328	4.9744	2.5775	1.01E-01
353	24.90	0.000	5.215	0.0954	5.2451	2.7178	1.02E-01
354	22.30	0.000	5.042	0.0845	5.1993	2.6941	1.01E-01
355	28.20	0.000	4.772	0.0863	4.4734	2.3180	9.93E-02
356	0.00	0.000	4.080	0.0396	4.0903	2.1194	9.82E-02
357	6.60	0.000	3.832	0.0472	4.0219	2.0840	9.80E-02
358	95.40	0.000	3.722	0.1185	5.0036	2.5927	1.01E-01
359	0.00	0.000	3.049	0.0517	5.1330	2.6597	1.01E-01
360	0.00	0.000	3.196	0.0405	7.1277	3.6933	1.07E-01
361	51.20	0.000	5.861	0.1060	10.2817	5.3276	1.16E-01
362	29.00	0.000	5.266	0.0904	10.8023	5.5973	1.18E-01
363	0.00	0.000	6.072	0.0439	10.2018	5.2862	1.16E-01
364	7.80	0.000	6.326	0.0475	12.1656	6.3037	1.21E-01
365	7.40	0.000	4.556	0.0570	15.4650	8.0133	1.31E-01

* = Frozen (air or soil)

Annual Totals for Year 15			
	mm*	cubic meters	percent
Precipitation	2,244.30	22,443.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	687.520	6,875.2	30.63
Drainage Collected from Layer 2	1,581.9255	15,819.3	70.49
Percolation/Leakage through Layer 3	42.259173	422.6	1.88
Average Head on Top of Layer 3	16.6325 (cm)	---	---
Change in Water Storage	-67.4046	-674.0	-3.00
Soil Water at Start of Year	1,104.1844	11,041.8	49.20
Soil Water at End of Year	1,036.7798	10,367.8	46.20
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 16

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	4.607	0.0415		17.6363	9.1384	1.37E-01
2			0.00	0.000	4.299	0.0272		18.9611	9.8249	1.41E-01
3			0.00	0.000	2.452	0.0190		19.6693	10.1918	1.43E-01
4			0.00	0.000	0.000	0.0190		19.9254	10.3245	1.44E-01
5			0.00	0.000	0.000	0.0190		19.8546	10.2878	1.44E-01
6	*Note: head c		0.00	0.000	0.000	0.0190		19.5501	10.1301	1.43E-01
7			2.80	0.000	1.829	0.0222		19.0815	9.8872	1.41E-01
8			0.00	0.000	0.521	0.0205		18.5008	9.5864	1.40E-01
9			0.00	0.000	0.379	0.0192		17.8474	9.2478	1.38E-01
10			39.00	0.000	1.399	0.0827		17.1564	8.8897	1.36E-01
11			13.80	0.000	5.017	0.0734		16.0208	8.3013	1.33E-01
12			21.20	0.000	4.869	0.0949		14.1794	7.3472	1.27E-01
13			9.20	0.000	5.860	0.0612		12.2386	6.3415	1.22E-01
14			4.00	0.000	5.179	0.0551		10.7261	5.5578	1.17E-01
15			2.00	0.000	4.736	0.0451		11.0843	5.7434	1.18E-01
16			0.10	0.000	5.389	0.0272		11.9330	6.1832	1.21E-01
17			0.20	0.000	2.583	0.0193		12.5026	6.4783	1.22E-01
18			1.40	0.000	0.560	0.0221		12.8406	6.6535	1.23E-01
19			3.00	0.000	2.432	0.0240		12.9778	6.7245	1.24E-01
20			26.20	0.000	4.850	0.0951		12.9615	6.7161	1.24E-01
21			12.40	0.000	5.311	0.0630		12.7919	6.6282	1.23E-01

22	14.80	0.000	4.751	0.0715	11.6689	6.0464	1.20E-01
23	5.80	0.000	6.288	0.0600	10.3792	5.3781	1.16E-01
24	3.60	0.000	6.402	0.0488	9.7561	5.0552	1.14E-01
25	0.00	0.000	5.674	0.0295	10.0876	5.2270	1.15E-01
26	0.00	0.000	3.025	0.0195	10.4431	5.4112	1.16E-01
27	0.00	0.000	0.102	0.0191	10.6789	5.5334	1.17E-01
28	0.50	0.000	0.525	0.0190	10.7780	5.5847	1.17E-01
29	0.00	0.000	0.006	0.0190	10.7923	5.5921	1.17E-01
30	0.00	0.000	0.002	0.0190	9.9948	5.1789	1.15E-01
31	0.00	0.000	0.000	0.0190	8.6202	4.4666	1.11E-01
32	4.20	0.000	0.739	0.0305	7.4316	3.8507	1.08E-01
33	2.20	0.000	0.979	0.0346	6.4037	3.3181	1.05E-01
34	207.60	0.000	1.265	0.1510	5.5149	2.8576	1.02E-01
35	36.00	0.000	4.658	0.0889	4.8345	2.5051	1.00E-01
36	69.00	0.000	6.244	0.1029	6.8571	3.5531	1.06E-01
37	26.00	0.000	5.712	0.0928	6.8625	3.5559	1.06E-01
38	5.00	0.000	6.225	0.0579	14.5790	7.5543	1.28E-01
39	1.20	0.000	6.072	0.0397	22.6704	11.7469	1.52E-01
40	10.50	0.000	5.974	0.0548	33.9030	15.0813	1.84E-01
41	29.00	0.000	5.712	0.0936	48.0406	15.5759	2.25E-01
42	20.00	0.000	5.898	0.0849	42.0684	15.5656	2.08E-01
43	8.00	0.000	6.471	0.0606	38.6018	15.5596	1.98E-01
44	0.00	0.000	5.319	0.0413	39.9660	15.5620	2.01E-01
45	2.00	0.000	6.429	0.0265	45.1031	15.5709	2.16E-01
46	0.00	0.000	2.091	0.0195	47.7829	15.5755	2.24E-01
47	43.00	0.000	5.105	0.0833	47.5917	15.5752	2.23E-01
48	30.00	0.000	6.331	0.0891	39.3245	15.5609	2.00E-01
49	2.20	0.000	5.262	0.0352	31.0562	15.2268	1.76E-01
50	7.00	0.000	6.218	0.0378	27.7735	14.3911	1.66E-01

51	0.00	0.000	5.045	0.0210	28.2909	14.6592	1.68E-01
52	0.00	0.000	0.457	0.0195	28.4064	14.7190	1.68E-01
53	0.00	0.000	0.114	0.0191	28.0170	14.5173	1.67E-01
54	16.00	0.000	3.345	0.0613	27.2898	14.1404	1.65E-01
55	27.00	0.000	5.157	0.0977	26.3426	13.6497	1.62E-01
56	1.20	0.000	4.441	0.0518	24.5819	12.7373	1.57E-01
57	6.00	0.000	4.548	0.0567	22.3390	11.5751	1.51E-01
58	0.00	0.000	5.122	0.0391	21.9983	11.3986	1.50E-01
59	22.40	0.000	3.098	0.0957	21.4617	11.1206	1.48E-01
60	38.20	0.000	4.264	0.0973	20.5416	10.6438	1.46E-01
61	4.00	0.000	4.520	0.0528	17.9444	9.2980	1.38E-01
62	0.80	0.000	6.129	0.0343	16.7407	8.6744	1.35E-01
63	0.00	0.000	4.360	0.0198	17.3544	8.9924	1.36E-01
64	0.00	0.000	0.173	0.0192	17.8584	9.2535	1.38E-01
65	28.00	0.000	3.485	0.1009	18.0132	9.3337	1.38E-01
66	53.00	0.000	2.794	0.1008	17.7982	9.2223	1.38E-01
67	240.00	0.000	4.207	0.1603	15.7978	8.1858	1.32E-01
68	0.00	0.000	2.979	0.0446	14.4660	7.4957	1.28E-01
69	17.00	0.000	4.075	0.0792	37.9406	14.3277	1.96E-01
70	74.00	0.000	2.712	0.1011	182.4646	18.2958	6.12E-01
71	165.00	0.000	3.225	0.1371	52.4290	15.5835	2.37E-01
72	33.50	0.000	4.262	0.0891	400.4701	24.7257	1.24E+00
73	5.00	0.000	6.088	0.0548	510.5297	27.5626	1.56E+00
74	23.00	0.000	3.343	0.0907	489.3364	26.8591	1.50E+00
75	101.00	0.000	4.638	0.1115	488.5392	26.8337	1.49E+00
76	15.00	0.000	6.022	0.0688	537.4630	28.4634	1.63E+00
77	0.00	0.000	5.409	0.0430	524.4627	28.0279	1.60E+00
78	0.00	0.000	6.129	0.0226	496.4057	27.0934	1.52E+00
79	0.00	0.000	1.074	0.0190	466.7154	26.1129	1.43E+00

80	24.00	0.000	5.355	0.0812	438.1279	25.1777	1.35E+00
81	10.00	0.000	5.588	0.0646	411.8759	24.3270	1.27E+00
82	7.00	0.000	6.704	0.0583	393.9576	23.7514	1.22E+00
83	0.00	0.000	6.647	0.0362	370.0855	22.9915	1.15E+00
84	15.00	0.000	4.323	0.0718	345.0534	22.1082	1.08E+00
85	5.00	0.000	4.668	0.0634	321.6199	21.3979	1.01E+00
86	0.00	0.000	4.938	0.0469	300.6378	20.7699	9.52E-01
87	0.00	0.000	3.797	0.0343	278.0640	20.1037	8.87E-01
88	17.00	0.000	3.176	0.0790	256.2457	19.4711	8.24E-01
89	55.00	0.000	5.197	0.0897	148.4768	17.3099	5.14E-01
90	4.00	0.000	5.443	0.0614	50.6325	15.5804	2.32E-01
91	40.00	0.000	4.149	0.1033	158.5028	17.5651	5.43E-01
92	4.00	0.000	4.226	0.0551	55.9952	15.5897	2.48E-01
93	5.00	0.000	4.063	0.0582	260.0799	19.5814	8.35E-01
94	10.00	0.000	4.918	0.0667	238.9753	18.9799	7.75E-01
95	0.20	0.000	4.736	0.0491	179.8420	17.7348	6.04E-01
96	0.00	0.000	5.726	0.0300	202.6463	17.9828	6.70E-01
97	0.00	0.000	3.296	0.0190	123.1233	16.5484	4.41E-01
98	0.00	0.000	0.000	0.0190	59.9842	15.5966	2.59E-01
99	0.00	0.000	0.000	0.0190	58.0690	15.5933	2.54E-01
100	0.00	0.000	0.000	0.0190	54.3825	15.5869	2.43E-01
101	0.00	0.000	0.000	0.0190	49.2930	15.5781	2.28E-01
102	0.00	0.000	0.000	0.0190	43.0700	15.5673	2.10E-01
103	0.00	0.000	0.000	0.0190	35.1460	15.5503	1.88E-01
104	0.00	0.000	0.000	0.0190	28.7591	14.9018	1.69E-01
105	0.00	0.000	0.000	0.0190	26.8621	13.9188	1.64E-01
106	0.00	0.000	0.000	0.0190	25.0707	12.9906	1.59E-01
107	0.00	0.000	0.000	0.0190	23.3908	12.1202	1.54E-01
108	2.00	0.000	0.435	0.0242	21.8232	11.3079	1.49E-01

109	0.00	0.000	0.366	0.0230	20.3659	10.5528	1.45E-01
110	0.00	0.000	0.556	0.0211	18.8719	9.7786	1.41E-01
111	0.00	0.000	0.428	0.0197	16.4549	8.5263	1.34E-01
112	0.00	0.000	0.187	0.0191	14.2063	7.3611	1.27E-01
113	0.00	0.000	0.022	0.0190	12.2619	6.3536	1.22E-01
114	0.00	0.000	0.005	0.0190	10.5806	5.4824	1.17E-01
115	0.00	0.000	0.002	0.0190	9.1267	4.7291	1.13E-01
116	0.00	0.000	0.000	0.0190	7.8695	4.0777	1.09E-01
117	0.00	0.000	0.000	0.0190	6.7824	3.5144	1.06E-01
118	0.00	0.000	0.000	0.0190	5.8424	3.0273	1.03E-01
119	3.00	0.000	0.295	0.0280	5.0296	2.6061	1.01E-01
120	0.00	0.000	0.241	0.0272	4.3267	2.2419	9.89E-02
121	0.00	0.000	0.378	0.0260	3.7189	1.9270	9.71E-02
122	0.00	0.000	0.369	0.0247	3.1933	1.6547	9.56E-02
123	0.00	0.000	0.379	0.0235	2.7389	1.4192	9.43E-02
124	0.00	0.000	0.314	0.0224	2.3459	1.2156	9.32E-02
125	0.00	0.000	0.423	0.0210	2.0061	1.0395	9.22E-02
126	0.00	0.000	0.434	0.0196	1.7123	0.8872	9.13E-02
127	0.00	0.000	0.142	0.0191	1.4582	0.7556	9.06E-02
128	6.50	0.000	0.272	0.0398	1.2385	0.6417	9.00E-02
129	14.00	0.000	0.447	0.0850	1.0485	0.5433	8.94E-02
130	0.00	0.000	0.469	0.0612	0.8842	0.4582	8.89E-02
131	0.00	0.000	0.461	0.0565	1.1268	0.5839	8.96E-02
132	0.00	0.000	0.454	0.0524	2.0061	1.0395	9.22E-02
133	0.00	0.000	0.447	0.0497	2.4777	1.2838	9.35E-02
134	0.00	0.000	0.440	0.0473	2.2150	1.1477	9.28E-02
135	0.00	0.000	0.434	0.0457	1.9494	1.0101	9.20E-02
136	0.00	0.000	0.428	0.0443	1.6652	0.8629	9.12E-02
137	0.00	0.000	0.422	0.0429	1.4175	0.7345	9.05E-02

138	0.00	0.000	0.416	0.0415	1.2033	0.6235	8.99E-02
139	0.00	0.000	0.411	0.0401	1.0181	0.5275	8.93E-02
140	0.00	0.000	0.405	0.0388	0.8579	0.4445	8.89E-02
141	2.00	0.000	0.454	0.0439	0.7194	0.3728	8.85E-02
142	1.00	0.000	0.450	0.0458	0.5997	0.3107	8.81E-02
143	1.00	0.000	0.445	0.0476	0.4961	0.2571	8.78E-02
144	0.00	0.000	0.386	0.0463	0.4065	0.2107	8.76E-02
145	0.00	0.000	0.382	0.0451	0.3291	0.1705	8.73E-02
146	0.00	0.000	0.378	0.0435	0.2694	0.1396	8.72E-02
147	0.00	0.000	0.374	0.0421	0.2354	0.1220	8.71E-02
148	0.00	0.000	0.370	0.0408	0.1870	0.0969	8.69E-02
149	0.00	0.000	0.366	0.0396	0.1393	0.0722	8.68E-02
150	0.00	0.000	0.362	0.0384	0.0980	0.0508	8.67E-02
151	0.00	0.000	0.359	0.0372	0.0623	0.0323	8.66E-02
152	0.00	0.000	0.355	0.0360	0.0315	0.0163	8.65E-02
153	0.00	0.000	0.352	0.0349	0.0059	0.0029	4.88E-02
154	0.00	0.000	0.348	0.0337	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.345	0.0325	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.342	0.0314	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.339	0.0303	0.0000	0.0000	0.00E+00
158	3.20	0.000	0.396	0.0396	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.333	0.0385	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.330	0.0374	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.328	0.0363	0.0000	0.0000	0.00E+00
162	10.00	0.000	0.385	0.0684	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.322	0.0559	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.320	0.0524	0.4596	0.2381	8.77E-02
165	0.00	0.000	0.317	0.0502	1.0217	0.5294	8.93E-02
166	0.00	0.000	0.315	0.0485	0.9312	0.4825	8.91E-02

167	0.00	0.000	0.312	0.0473	0.8217	0.4258	8.88E-02
168	0.00	0.000	0.310	0.0463	0.6898	0.3574	8.84E-02
169	0.00	0.000	0.308	0.0453	0.5741	0.2975	8.81E-02
170	0.00	0.000	0.306	0.0443	0.4740	0.2456	8.78E-02
171	0.00	0.000	0.304	0.0433	0.3874	0.2007	8.75E-02
172	0.00	0.000	0.301	0.0422	0.3126	0.1620	8.73E-02
173	0.00	0.000	0.299	0.0413	0.2479	0.1284	8.71E-02
174	0.00	0.000	0.297	0.0403	0.1919	0.0994	8.70E-02
175	0.00	0.000	0.295	0.0393	0.1435	0.0744	8.68E-02
176	0.00	0.000	0.293	0.0383	0.1016	0.0527	8.67E-02
177	0.00	0.000	0.291	0.0373	0.0655	0.0339	8.66E-02
178	0.00	0.000	0.289	0.0364	0.0342	0.0177	8.65E-02
179	0.00	0.000	0.288	0.0354	0.0077	0.0038	5.70E-02
180	0.00	0.000	0.286	0.0345	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.284	0.0335	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.282	0.0326	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.281	0.0316	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.279	0.0307	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.277	0.0298	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.276	0.0289	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.274	0.0279	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.272	0.0270	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.271	0.0261	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.269	0.0252	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.268	0.0243	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.266	0.0235	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.265	0.0226	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.264	0.0217	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.262	0.0208	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.261	0.0199	0.0000	0.0000	0.00E+00
197	1.90	0.000	0.332	0.0252	0.0000	0.0000	0.00E+00
198	0.20	0.000	0.309	0.0248	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.173	0.0242	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.172	0.0237	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.171	0.0231	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.170	0.0225	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.207	0.0218	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.206	0.0212	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.205	0.0205	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.204	0.0198	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.215	0.0191	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.017	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	1.40	0.000	0.095	0.0234	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.089	0.0231	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.143	0.0226	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.142	0.0221	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.142	0.0216	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.141	0.0212	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.141	0.0207	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.141	0.0202	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.140	0.0198	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.137	0.0193	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.072	0.0191	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.013	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	2.50	0.000	0.158	0.0268	0.0000	0.0000	0.00E+00
289	2.00	0.000	0.158	0.0329	0.0000	0.0000	0.00E+00
290	3.00	0.000	0.205	0.0423	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.168	0.0417	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.172	0.0411	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.179	0.0405	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.177	0.0399	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.177	0.0394	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.176	0.0388	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.176	0.0382	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.176	0.0376	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.181	0.0370	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.180	0.0364	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.180	0.0358	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.177	0.0352	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.179	0.0346	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.179	0.0340	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.178	0.0334	0.0000	0.0000	0.00E+00
306	0.20	0.000	0.257	0.0332	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.177	0.0326	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.177	0.0320	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.176	0.0315	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.152	0.0309	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.176	0.0304	0.0001	0.0000	1.39E-03

312	0.00	0.000	0.175	0.0298	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.175	0.0292	0.0000	0.0000	0.00E+00
314	7.00	0.000	0.267	0.0516	0.0000	0.0000	6.49E-05
315	0.00	0.000	0.174	0.0511	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.174	0.0505	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.173	0.0499	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.173	0.0492	0.0010	0.0004	1.47E-02
319	0.00	0.000	0.172	0.0479	0.0195	0.0101	8.65E-02
320	0.00	0.000	0.172	0.0468	0.0457	0.0237	8.65E-02
321	0.00	0.000	0.172	0.0460	0.0554	0.0287	8.66E-02
322	0.00	0.000	0.171	0.0454	0.0292	0.0151	8.65E-02
323	0.20	0.000	0.256	0.0452	0.0045	0.0023	4.20E-02
324	0.00	0.000	0.170	0.0447	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.170	0.0441	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.170	0.0435	0.0000	0.0000	0.00E+00
327	0.80	0.000	0.270	0.0453	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.169	0.0445	0.0026	0.0014	4.32E-02
329	0.40	0.000	0.269	0.0450	0.0013	0.0006	1.89E-02
330	2.50	0.000	0.271	0.0524	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.168	0.0518	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.167	0.0511	0.0032	0.0016	2.16E-02
333	11.50	0.000	0.271	0.0745	0.0255	0.0132	4.38E-02
334	6.00	0.000	0.271	0.0622	0.2029	0.1051	8.70E-02
335	0.00	0.000	0.166	0.0572	0.2648	0.1372	8.72E-02
336	0.00	0.000	0.166	0.0550	1.0532	0.5457	8.94E-02
337	0.50	0.000	0.271	0.0544	2.1523	1.1152	9.26E-02
338	15.00	0.000	0.272	0.0857	3.1631	1.6390	9.55E-02
339	40.00	0.000	4.242	0.0868	3.0873	1.5997	9.53E-02
340	14.00	0.000	5.006	0.0756	2.7570	1.4285	9.43E-02

341	8.00	0.000	6.993	0.0581	2.5577	1.3253	9.38E-02
342	0.00	0.000	6.289	0.0371	3.0489	1.5798	9.52E-02
343	0.00	0.000	5.130	0.0190	4.5253	2.3448	9.94E-02
344	2.00	0.000	1.111	0.0220	6.0391	3.1292	1.04E-01
345	0.40	0.000	1.077	0.0197	7.2195	3.7408	1.07E-01
346	1.20	0.000	0.807	0.0210	8.0893	4.1916	1.10E-01
347	0.00	0.000	0.494	0.0194	8.7101	4.5132	1.11E-01
348	0.00	0.000	0.081	0.0191	9.1315	4.7316	1.13E-01
349	37.00	0.000	2.154	0.0836	9.3938	4.8675	1.13E-01
350	7.00	0.000	5.456	0.0499	9.2106	4.7726	1.13E-01
351	0.60	0.000	5.406	0.0321	8.4649	4.3861	1.11E-01
352	0.00	0.000	3.718	0.0197	8.7843	4.5517	1.12E-01
353	1.00	0.000	0.677	0.0208	9.1983	4.7662	1.13E-01
354	0.00	0.000	0.447	0.0193	9.5085	4.9269	1.14E-01
355	0.00	0.000	0.079	0.0191	9.6881	5.0200	1.14E-01
356	0.00	0.000	0.016	0.0190	9.2122	4.7734	1.13E-01
357	0.00	0.000	0.004	0.0190	7.9434	4.1160	1.09E-01
358	0.00	0.000	0.001	0.0190	6.8463	3.5475	1.06E-01
359	0.00	0.000	0.000	0.0190	5.8977	3.0559	1.03E-01
360	0.00	0.000	0.000	0.0190	5.0773	2.6309	1.01E-01
361	0.00	0.000	0.000	0.0190	4.3680	2.2633	9.90E-02
362	3.00	0.000	0.567	0.0271	3.7546	1.9455	9.72E-02
363	0.40	0.000	0.527	0.0267	3.2242	1.6707	9.57E-02
364	0.00	0.000	0.626	0.0246	2.7656	1.4330	9.44E-02
365	0.00	0.000	0.719	0.0222	2.3690	1.2275	9.32E-02

* = Frozen (air or soil)

Annual Totals for Year 16			
	mm*	cubic meters	percent
Precipitation	1,941.60	19,416.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	474.231	4,742.3	24.42
Drainage Collected from Layer 2	1,596.5122	15,965.1	82.23
Percolation/Leakage through Layer 3	49.128957	491.3	2.53
Average Head on Top of Layer 3	29.6114 (cm)	---	---
Change in Water Storage	-178.2724	-1,782.7	-9.18
Soil Water at Start of Year	1,036.7798	10,367.8	53.40
Soil Water at End of Year	858.5073	8,585.1	44.22
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 17

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.242	0.0192		1.7295	0.8962	9.14E-02
2			0.00	0.000	0.061	0.0190		1.4731	0.7633	9.06E-02
3			0.00	0.000	0.008	0.0190		1.2517	0.6486	9.00E-02
4			0.00	0.000	0.000	0.0190		1.0602	0.5494	8.95E-02
5			0.00	0.000	0.000	0.0190		0.8944	0.4634	8.90E-02
6	*Note: head c		0.00	0.000	0.000	0.0190		0.7509	0.3891	8.86E-02
7			0.00	0.000	0.000	0.0190		0.6269	0.3248	8.82E-02
8			0.00	0.000	0.000	0.0190		0.5197	0.2693	8.79E-02
9			0.00	0.000	0.000	0.0190		0.4269	0.2212	8.76E-02
10			0.00	0.000	0.000	0.0190		0.3467	0.1797	8.74E-02
11			0.00	0.000	0.000	0.0190		0.2774	0.1437	8.72E-02
12			0.00	0.000	0.000	0.0190		0.2174	0.1127	8.70E-02
13			0.00	0.000	0.000	0.0190		0.1656	0.0858	8.69E-02
14			0.00	0.000	0.000	0.0190		0.1207	0.0626	8.67E-02
15			3.50	0.000	0.291	0.0297		0.0820	0.0425	8.66E-02
16			7.00	0.000	0.415	0.0516		0.0484	0.0251	8.65E-02
17			7.00	0.000	0.555	0.0642		0.0195	0.0101	8.65E-02
18			61.00	0.000	0.562	0.1053		0.0008	0.0002	1.16E-02
19			17.00	0.000	4.855	0.0847		0.0262	0.0136	2.17E-02
20			1.00	0.000	5.495	0.0477		0.5666	0.2936	8.80E-02
21			1.00	0.000	6.273	0.0280		1.2424	0.6438	9.00E-02

22	0.00	0.000	2.609	0.0193	3.4866	1.8066	9.64E-02
23	1.00	0.000	0.518	0.0209	5.4571	2.8276	1.02E-01
24	5.00	0.000	2.550	0.0291	6.9851	3.6194	1.07E-01
25	62.50	0.000	5.403	0.1157	8.1282	4.2117	1.10E-01
26	3.00	0.000	5.154	0.0508	8.2653	4.2827	1.10E-01
27	5.00	0.000	6.661	0.0453	8.8120	4.5660	1.12E-01
28	0.00	0.000	4.717	0.0296	10.3663	5.3714	1.16E-01
29	1.00	0.000	3.592	0.0209	11.4468	5.9313	1.19E-01
30	2.30	0.000	2.005	0.0219	12.1603	6.3010	1.21E-01
31	8.70	0.000	3.174	0.0403	12.5895	6.5234	1.23E-01
32	34.00	0.000	5.581	0.0878	12.7995	6.6322	1.23E-01
33	1.00	0.000	6.160	0.0349	12.3289	6.3884	1.22E-01
34	18.50	0.000	4.126	0.0828	11.2404	5.8243	1.19E-01
35	183.00	0.000	3.628	0.1413	11.5772	5.9988	1.20E-01
36	6.50	0.000	6.290	0.0499	10.3709	5.3738	1.16E-01
37	0.00	0.000	6.894	0.0265	15.0722	7.8098	1.30E-01
38	0.00	0.000	2.219	0.0191	21.4251	11.1016	1.48E-01
39	2.80	0.000	2.011	0.0218	25.0570	12.9835	1.59E-01
40	0.00	0.000	0.480	0.0202	26.8353	13.9050	1.64E-01
41	2.50	0.000	1.927	0.0221	27.5695	14.2854	1.66E-01
42	2.00	0.000	2.006	0.0221	27.6238	14.3135	1.66E-01
43	0.00	0.000	0.742	0.0196	27.2143	14.1013	1.65E-01
44	2.00	0.000	0.910	0.0232	26.4938	13.7280	1.63E-01
45	0.00	0.000	0.711	0.0209	25.5708	13.2498	1.60E-01
46	1.20	0.000	0.600	0.0229	24.5236	12.7071	1.57E-01
47	8.00	0.000	0.937	0.0464	23.4080	12.1291	1.54E-01
48	0.00	0.000	0.994	0.0431	22.2643	11.5364	1.51E-01
49	0.00	0.000	0.968	0.0399	21.1209	10.9440	1.47E-01
50	0.00	0.000	0.901	0.0368	19.9981	10.3622	1.44E-01

51	0.00	0.000	0.856	0.0340	18.9095	9.7981	1.41E-01
52	0.00	0.000	0.802	0.0313	17.8642	9.2565	1.38E-01
53	0.00	0.000	0.787	0.0287	16.8337	8.7226	1.35E-01
54	1.60	0.000	0.812	0.0313	14.8396	7.6893	1.29E-01
55	24.00	0.000	0.782	0.0976	12.8096	6.6374	1.23E-01
56	2.00	0.000	4.450	0.0477	11.0991	5.7511	1.18E-01
57	1.50	0.000	5.110	0.0351	9.9844	5.1735	1.15E-01
58	23.00	0.000	3.315	0.0954	9.8210	5.0888	1.15E-01
59	36.00	0.000	5.597	0.0956	9.6994	5.0258	1.14E-01
60	14.00	0.000	5.734	0.0694	8.4529	4.3799	1.11E-01
61	7.00	0.000	5.554	0.0661	7.3813	3.8247	1.08E-01
62	15.00	0.000	4.607	0.0741	7.3966	3.8326	1.08E-01
63	2.50	0.000	7.258	0.0433	7.4553	3.8631	1.08E-01
64	0.00	0.000	6.162	0.0215	7.2775	3.7709	1.07E-01
65	0.00	0.000	0.612	0.0194	8.4692	4.3884	1.11E-01
66	2.00	0.000	1.285	0.0218	9.4869	4.9157	1.14E-01
67	0.00	0.000	0.685	0.0195	10.1956	5.2829	1.16E-01
68	60.00	0.000	2.845	0.1037	10.6710	5.5293	1.17E-01
69	8.00	0.000	4.738	0.0657	10.2634	5.3181	1.16E-01
70	0.00	0.000	5.340	0.0440	9.6039	4.9763	1.14E-01
71	0.80	0.000	3.731	0.0342	10.5136	5.4477	1.17E-01
72	0.00	0.000	3.444	0.0228	11.4466	5.9312	1.19E-01
73	0.00	0.000	1.104	0.0191	12.0554	6.2466	1.21E-01
74	0.80	0.000	0.380	0.0205	12.4091	6.4299	1.22E-01
75	47.00	0.000	2.836	0.0915	12.5658	6.5111	1.23E-01
76	98.00	0.000	3.208	0.1044	12.0751	6.2568	1.21E-01
77	140.00	0.000	4.138	0.1246	10.4210	5.3998	1.16E-01
78	90.00	0.000	2.981	0.1065	8.9888	4.6576	1.12E-01
79	57.00	0.000	2.771	0.0955	10.5345	5.4585	1.17E-01

80	155.00	0.000	2.972	0.1348	20.6500	10.7000	1.46E-01
81	19.00	0.000	6.668	0.0821	282.1882	20.9584	8.99E-01
82	0.00	0.000	4.848	0.0494	507.0870	27.4481	1.55E+00
83	4.00	0.000	6.278	0.0418	481.1681	26.5890	1.47E+00
84	0.00	0.000	4.524	0.0258	452.1204	25.6343	1.39E+00
85	0.90	0.000	2.397	0.0208	424.2938	24.7284	1.31E+00
86	0.10	0.000	0.497	0.0194	397.2648	23.8575	1.23E+00
87	0.70	0.000	0.676	0.0195	371.2173	23.0273	1.16E+00
88	0.70	0.000	0.640	0.0197	346.1451	22.1415	1.08E+00
89	0.00	0.000	0.124	0.0193	322.0172	21.4100	1.01E+00
90	0.00	0.000	0.066	0.0191	298.7179	20.7128	9.47E-01
91	0.00	0.000	0.020	0.0190	276.2088	20.0494	8.82E-01
92	0.00	0.000	0.005	0.0190	254.4521	19.4197	8.19E-01
93	0.00	0.000	0.001	0.0190	233.4102	18.8238	7.59E-01
94	0.00	0.000	0.000	0.0190	213.0449	18.2624	7.00E-01
95	0.00	0.000	0.000	0.0190	161.9226	17.2365	5.53E-01
96	0.00	0.000	0.000	0.0190	90.6396	16.0478	3.47E-01
97	0.00	0.000	0.000	0.0190	59.3540	15.5955	2.57E-01
98	0.00	0.000	0.000	0.0190	56.5426	15.5906	2.49E-01
99	0.00	0.000	0.000	0.0190	52.1502	15.5830	2.37E-01
100	0.00	0.000	0.000	0.0190	46.4928	15.5733	2.20E-01
101	0.00	0.000	0.000	0.0190	39.8052	15.5617	2.01E-01
102	2.00	0.000	0.337	0.0245	31.7721	15.3667	1.78E-01
103	0.00	0.000	0.280	0.0236	27.8511	14.4313	1.67E-01
104	0.00	0.000	0.435	0.0222	26.0022	13.4733	1.61E-01
105	0.00	0.000	0.422	0.0208	24.2628	12.5720	1.56E-01
106	0.00	0.000	0.385	0.0195	22.6357	11.7289	1.52E-01
107	0.00	0.000	0.115	0.0191	21.1203	10.9437	1.47E-01
108	0.00	0.000	0.020	0.0190	19.7333	10.2250	1.43E-01

109	0.00	0.000	0.005	0.0190	17.7750	9.2103	1.38E-01
110	0.00	0.000	0.002	0.0190	15.3478	7.9526	1.31E-01
111	0.00	0.000	0.000	0.0190	13.2490	6.8651	1.25E-01
112	0.00	0.000	0.000	0.0190	11.4341	5.9247	1.19E-01
113	0.00	0.000	0.000	0.0190	9.8648	5.1115	1.15E-01
114	0.00	0.000	0.000	0.0190	8.5077	4.4084	1.11E-01
115	0.00	0.000	0.000	0.0190	7.3343	3.8003	1.08E-01
116	0.00	0.000	0.000	0.0190	6.3196	3.2746	1.05E-01
117	0.00	0.000	0.000	0.0190	5.4422	2.8199	1.02E-01
118	0.30	0.000	0.088	0.0197	4.6835	2.4268	9.99E-02
119	7.50	0.000	0.241	0.0439	4.0274	2.0869	9.80E-02
120	0.00	0.000	0.373	0.0427	3.4601	1.7929	9.64E-02
121	0.00	0.000	0.433	0.0412	2.9696	1.5387	9.50E-02
122	0.00	0.000	0.426	0.0398	2.5454	1.3189	9.37E-02
123	0.00	0.000	0.420	0.0384	2.1786	1.1289	9.27E-02
124	0.00	0.000	0.419	0.0370	1.8614	0.9645	9.18E-02
125	0.00	0.000	0.411	0.0356	1.5872	0.8224	9.10E-02
126	0.00	0.000	0.406	0.0343	1.3500	0.6995	9.03E-02
127	0.00	0.000	0.399	0.0329	1.1449	0.5933	8.97E-02
128	0.00	0.000	0.405	0.0316	0.9676	0.5014	8.92E-02
129	0.00	0.000	0.400	0.0303	0.8143	0.4219	8.87E-02
130	0.00	0.000	0.396	0.0289	0.6817	0.3532	8.84E-02
131	0.00	0.000	0.391	0.0276	0.5670	0.2938	8.80E-02
132	0.00	0.000	0.386	0.0263	0.4679	0.2424	8.77E-02
133	2.00	0.000	0.437	0.0316	0.3821	0.1980	8.75E-02
134	0.00	0.000	0.378	0.0303	0.3080	0.1596	8.73E-02
135	0.00	0.000	0.374	0.0291	0.2439	0.1264	8.71E-02
136	0.00	0.000	0.370	0.0278	0.1885	0.0977	8.69E-02
137	0.00	0.000	0.366	0.0266	0.1405	0.0728	8.68E-02

138	0.00	0.000	0.362	0.0254	0.0991	0.0513	8.67E-02
139	0.50	0.000	0.416	0.0257	0.0633	0.0328	8.66E-02
140	0.00	0.000	0.355	0.0245	0.0325	0.0169	8.65E-02
141	0.00	0.000	0.335	0.0234	0.0068	0.0033	5.30E-02
142	0.00	0.000	0.309	0.0223	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.337	0.0212	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.340	0.0201	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.324	0.0190	0.0000	0.0000	0.00E+00
146	56.00	0.000	0.395	0.1014	0.0449	0.0233	2.17E-02
147	3.00	0.000	3.758	0.0428	0.1498	0.0776	8.68E-02
148	0.60	0.000	4.951	0.0283	0.6907	0.3579	8.84E-02
149	0.00	0.000	2.582	0.0197	2.5385	1.3153	9.37E-02
150	0.00	0.000	0.166	0.0191	4.1479	2.1493	9.83E-02
151	0.00	0.000	0.033	0.0190	5.3948	2.7953	1.02E-01
152	13.00	0.000	2.234	0.0549	6.3463	3.2884	1.05E-01
153	10.00	0.000	3.917	0.0600	7.0682	3.6625	1.07E-01
154	4.00	0.000	3.939	0.0596	7.3549	3.8110	1.08E-01
155	6.00	0.000	5.453	0.0604	7.3519	3.8095	1.08E-01
156	0.00	0.000	5.363	0.0411	7.6564	3.9672	1.08E-01
157	0.00	0.000	5.079	0.0242	6.9726	3.6129	1.06E-01
158	0.00	0.000	1.155	0.0190	6.0872	3.1541	1.04E-01
159	0.00	0.000	0.000	0.0190	5.2661	2.7287	1.02E-01
160	0.00	0.000	0.000	0.0190	4.5312	2.3479	9.94E-02
161	0.00	0.000	0.000	0.0190	3.8958	2.0186	9.76E-02
162	0.00	0.000	0.000	0.0190	3.3463	1.7339	9.60E-02
163	0.00	0.000	0.000	0.0190	2.8711	1.4877	9.47E-02
164	0.00	0.000	0.000	0.0190	2.4603	1.2748	9.35E-02
165	0.00	0.000	0.000	0.0190	2.1050	1.0907	9.25E-02
166	0.00	0.000	0.000	0.0190	1.7978	0.9315	9.16E-02

167	0.00	0.000	0.000	0.0190	1.5321	0.7939	9.08E-02
168	0.00	0.000	0.000	0.0190	1.3024	0.6749	9.01E-02
169	0.00	0.000	0.000	0.0190	1.1038	0.5719	8.96E-02
170	0.00	0.000	0.000	0.0190	0.9320	0.4829	8.91E-02
171	0.00	0.000	0.000	0.0190	0.7835	0.4060	8.87E-02
172	0.00	0.000	0.000	0.0190	0.6551	0.3394	8.83E-02
173	0.00	0.000	0.000	0.0190	0.5440	0.2819	8.80E-02
174	1.00	0.000	0.121	0.0219	0.4480	0.2321	8.77E-02
175	2.00	0.000	0.350	0.0274	0.3649	0.1891	8.74E-02
176	0.00	0.000	0.391	0.0261	0.2931	0.1519	8.72E-02
177	0.00	0.000	0.435	0.0247	0.2310	0.1197	8.71E-02
178	4.50	0.000	0.482	0.0381	0.1773	0.0919	8.69E-02
179	0.00	0.000	0.501	0.0364	0.1309	0.0678	8.68E-02
180	0.00	0.000	0.540	0.0346	0.0908	0.0470	8.67E-02
181	0.40	0.000	0.588	0.0340	0.0561	0.0290	8.66E-02
182	0.00	0.000	0.513	0.0323	0.0260	0.0135	8.65E-02
183	0.00	0.000	0.501	0.0306	0.0031	0.0014	3.23E-02
184	0.00	0.000	0.490	0.0290	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.496	0.0273	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.498	0.0256	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.489	0.0240	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.479	0.0224	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.470	0.0208	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.361	0.0196	0.0000	0.0000	0.00E+00
191	0.30	0.000	0.258	0.0198	0.0000	0.0000	0.00E+00
192	107.00	0.000	0.527	0.1237	0.0867	0.0449	4.34E-02
193	10.00	0.000	4.053	0.0609	0.1499	0.0777	8.68E-02
194	6.00	0.000	5.262	0.0618	1.2285	0.6366	8.99E-02
195	0.00	0.000	5.088	0.0417	3.8833	2.0122	9.76E-02

196	1.70	0.000	4.450	0.0325	6.2634	3.2455	1.04E-01
197	0.30	0.000	3.692	0.0212	8.2117	4.2549	1.10E-01
198	0.00	0.000	0.547	0.0194	9.6240	4.9868	1.14E-01
199	0.00	0.000	0.081	0.0191	10.6182	5.5019	1.17E-01
200	0.00	0.000	0.021	0.0190	11.2852	5.8475	1.19E-01
201	0.00	0.000	0.005	0.0190	11.6967	6.0608	1.20E-01
202	0.00	0.000	0.002	0.0190	11.9095	6.1710	1.21E-01
203	0.00	0.000	0.000	0.0190	11.9684	6.2015	1.21E-01
204	0.00	0.000	0.000	0.0190	11.9093	6.1709	1.21E-01
205	0.00	0.000	0.000	0.0190	11.7620	6.0946	1.20E-01
206	0.00	0.000	0.000	0.0190	11.0826	5.7425	1.18E-01
207	0.00	0.000	0.000	0.0190	9.5608	4.9540	1.14E-01
208	0.00	0.000	0.000	0.0190	8.2449	4.2722	1.10E-01
209	0.00	0.000	0.000	0.0190	7.1070	3.6826	1.07E-01
210	0.00	0.000	0.000	0.0190	6.1231	3.1727	1.04E-01
211	0.00	0.000	0.000	0.0190	5.2723	2.7319	1.02E-01
212	0.00	0.000	0.000	0.0190	4.5365	2.3507	9.95E-02
213	0.00	0.000	0.000	0.0190	3.9004	2.0210	9.76E-02
214	0.00	0.000	0.000	0.0190	3.3503	1.7360	9.60E-02
215	0.00	0.000	0.000	0.0190	2.8746	1.4895	9.47E-02
216	0.00	0.000	0.000	0.0190	2.4632	1.2763	9.35E-02
217	0.00	0.000	0.000	0.0190	2.1076	1.0920	9.25E-02
218	0.00	0.000	0.000	0.0190	1.8000	0.9327	9.16E-02
219	0.00	0.000	0.000	0.0190	1.5340	0.7949	9.08E-02
220	0.00	0.000	0.000	0.0190	1.3041	0.6757	9.02E-02
221	0.00	0.000	0.000	0.0190	1.1052	0.5727	8.96E-02
222	0.00	0.000	0.000	0.0190	0.9333	0.4836	8.91E-02
223	0.00	0.000	0.000	0.0190	0.7846	0.4065	8.87E-02
224	0.00	0.000	0.000	0.0190	0.6560	0.3399	8.83E-02

225	0.00	0.000	0.000	0.0190	0.5448	0.2823	8.80E-02
226	0.00	0.000	0.000	0.0190	0.4487	0.2325	8.77E-02
227	0.00	0.000	0.000	0.0190	0.3655	0.1894	8.75E-02
228	0.00	0.000	0.000	0.0190	0.2936	0.1522	8.72E-02
229	0.00	0.000	0.000	0.0190	0.2315	0.1199	8.71E-02
230	0.00	0.000	0.000	0.0190	0.1777	0.0921	8.69E-02
231	0.00	0.000	0.000	0.0190	0.1313	0.0680	8.68E-02
232	0.00	0.000	0.000	0.0190	0.0911	0.0472	8.67E-02
233	1.50	0.000	0.139	0.0235	0.0563	0.0292	8.66E-02
234	0.00	0.000	0.190	0.0229	0.0263	0.0136	8.65E-02
235	0.00	0.000	0.300	0.0219	0.0032	0.0014	3.30E-02
236	0.80	0.000	0.361	0.0234	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.331	0.0223	0.0000	0.0000	8.55E-08
238	0.00	0.000	0.298	0.0213	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.286	0.0203	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.225	0.0196	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.141	0.0191	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.022	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.005	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	10.00	0.000	0.290	0.0514	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.299	0.0504	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.325	0.0492	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.322	0.0480	0.0016	0.0008	2.18E-02
266	0.00	0.000	0.320	0.0465	0.0160	0.0083	8.64E-02
267	0.00	0.000	0.317	0.0451	0.0238	0.0123	8.65E-02
268	0.00	0.000	0.315	0.0440	0.0148	0.0076	8.29E-02
269	0.00	0.000	0.312	0.0430	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.310	0.0419	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.308	0.0409	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.306	0.0399	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.304	0.0389	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.301	0.0379	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.299	0.0369	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.297	0.0359	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.295	0.0349	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.293	0.0339	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.291	0.0330	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.289	0.0320	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.288	0.0310	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.286	0.0301	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.284	0.0291	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.282	0.0282	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.281	0.0273	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.279	0.0263	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.277	0.0254	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.276	0.0245	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.274	0.0236	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.272	0.0227	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.271	0.0218	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.269	0.0209	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.268	0.0200	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.266	0.0191	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.025	0.0190	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
310	5.00	0.000	0.184	0.0351	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.164	0.0345	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.200	0.0338	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.221	0.0331	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.220	0.0324	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.219	0.0316	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.218	0.0309	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.217	0.0302	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.216	0.0295	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.215	0.0287	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.214	0.0280	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.213	0.0273	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.213	0.0266	0.0000	0.0000	0.00E+00
323	1.00	0.000	0.300	0.0289	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.211	0.0282	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.222	0.0275	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.222	0.0268	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.221	0.0260	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.220	0.0253	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.219	0.0246	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.192	0.0239	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.219	0.0232	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.223	0.0224	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.223	0.0217	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.221	0.0210	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.214	0.0203	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.214	0.0195	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.124	0.0191	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.038	0.0190	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
343	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
346	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
347	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
348	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
349	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
350	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
351	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
352	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
353	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
354	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
355	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
356	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
357	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
358	1.80	0.000	0.185	0.0244	0.0000	0.0000	0.00E+00
359	17.20	0.000	0.267	0.0808	0.0000	0.0000	0.00E+00
360	7.00	0.000	0.296	0.0684	0.0000	0.0000	1.71E-07
361	0.00	0.000	0.202	0.0566	0.0449	0.0233	2.17E-02
362	0.00	0.000	0.202	0.0554	0.7379	0.3823	8.85E-02
363	0.00	0.000	0.201	0.0527	2.0322	1.0530	9.23E-02
364	0.00	0.000	0.201	0.0520	3.0113	1.5603	9.51E-02
365	0.00	0.000	0.200	0.0514	2.9037	1.5046	9.48E-02

* = Frozen (air or soil)

Annual Totals for Year 17			
	mm*	cubic meters	percent
Precipitation	1,540.50	15,405.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	327.628	3,276.3	21.27
Drainage Collected from Layer 2	1,161.4683	11,614.7	75.40
Percolation/Leakage through Layer 3	39.081136	390.8	2.54
Average Head on Top of Layer 3	18.6058 (cm)	---	---
Change in Water Storage	12.3226	123.2	0.80
Soil Water at Start of Year	858.5073	8,585.1	55.73
Soil Water at End of Year	870.8299	8,708.3	56.53
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 18

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			42.00	0.000	0.301	0.1067		2.4884	1.2894	9.36E-02
2			0.00	0.000	6.565	0.0433		2.1556	1.1169	9.26E-02
3			0.00	0.000	6.493	0.0217		2.7816	1.4413	9.44E-02
4			0.00	0.000	0.809	0.0190		4.2571	2.2059	9.87E-02
5			0.00	0.000	0.000	0.0190		5.4338	2.8156	1.02E-01
6	*Note: head c		0.00	0.000	0.000	0.0190		6.3316	3.2808	1.05E-01
7			0.00	0.000	0.000	0.0190		7.0021	3.6282	1.07E-01
8			0.00	0.000	0.000	0.0190		7.4889	3.8805	1.08E-01
9			0.00	0.000	0.000	0.0190		6.9248	3.5881	1.06E-01
10			0.00	0.000	0.000	0.0190		5.9655	3.0911	1.04E-01
11			0.00	0.000	0.000	0.0190		5.1360	2.6613	1.01E-01
12			0.00	0.000	0.000	0.0190		4.4187	2.2896	9.91E-02
13			0.00	0.000	0.000	0.0190		3.7985	1.9682	9.73E-02
14			0.00	0.000	0.000	0.0190		3.2622	1.6903	9.58E-02
15			0.00	0.000	0.000	0.0190		2.7984	1.4500	9.45E-02
16			5.00	0.000	0.376	0.0344		2.3974	1.2422	9.33E-02
17			22.00	0.000	0.719	0.0994		2.0506	1.0625	9.23E-02
18			0.40	0.000	5.252	0.0409		1.8211	0.9436	9.16E-02
19			0.00	0.000	0.694	0.0386		2.1558	1.1170	9.26E-02
20			6.00	0.000	0.731	0.0561		3.0296	1.5698	9.51E-02
21			5.00	0.000	5.099	0.0537		4.0623	2.1049	9.81E-02

22	2.00	0.000	3.122	0.0494	4.0980	2.1234	9.82E-02
23	85.60	0.000	2.679	0.1153	3.6446	1.8885	9.69E-02
24	220.00	0.000	3.305	0.1556	3.2111	1.6638	9.56E-02
25	4.00	0.000	5.875	0.0406	3.0060	1.5576	9.51E-02
26	0.00	0.000	5.881	0.0210	13.5765	7.0348	1.25E-01
27	0.00	0.000	0.507	0.0193	23.9884	12.4298	1.55E-01
28	0.00	0.000	0.066	0.0191	33.5966	15.1891	1.83E-01
29	0.00	0.000	0.016	0.0190	45.0807	15.5708	2.16E-01
30	0.00	0.000	0.004	0.0190	49.8889	15.5791	2.30E-01
31	0.00	0.000	0.001	0.0190	51.2740	15.5815	2.34E-01
32	0.00	0.000	0.000	0.0190	50.1324	15.5795	2.31E-01
33	0.00	0.000	0.000	0.0190	47.0585	15.5742	2.22E-01
34	0.00	0.000	0.000	0.0190	42.4664	15.5663	2.09E-01
35	0.00	0.000	0.000	0.0190	36.6553	15.5563	1.92E-01
36	0.00	0.000	0.000	0.0190	29.1332	15.0956	1.70E-01
37	0.00	0.000	0.000	0.0190	27.4283	14.2122	1.65E-01
38	0.00	0.000	0.000	0.0190	25.7684	13.3521	1.61E-01
39	0.00	0.000	0.000	0.0190	24.1751	12.5265	1.56E-01
40	1.00	0.000	0.116	0.0219	22.6600	11.7415	1.52E-01
41	5.00	0.000	0.364	0.0374	21.2297	11.0004	1.48E-01
42	0.00	0.000	0.593	0.0354	19.8869	10.3046	1.44E-01
43	2.00	0.000	0.683	0.0398	18.6375	9.6572	1.40E-01
44	0.00	0.000	0.626	0.0377	16.5912	8.5969	1.34E-01
45	0.00	0.000	0.615	0.0357	14.3241	7.4222	1.28E-01
46	14.00	0.000	0.629	0.0802	12.3638	6.4064	1.22E-01
47	1.00	0.000	0.661	0.0575	10.6687	5.5281	1.17E-01
48	0.00	0.000	4.139	0.0424	9.4351	4.8889	1.14E-01
49	40.00	0.000	0.644	0.1000	9.2574	4.7968	1.13E-01
50	2.00	0.000	6.482	0.0453	8.4792	4.3936	1.11E-01

51	0.00	0.000	6.407	0.0239	7.8186	4.0513	1.09E-01
52	5.50	0.000	4.065	0.0276	8.3221	4.3122	1.10E-01
53	0.00	0.000	1.950	0.0211	8.8941	4.6085	1.12E-01
54	0.00	0.000	0.543	0.0193	9.3286	4.8337	1.13E-01
55	12.00	0.000	4.488	0.0443	9.5985	4.9735	1.14E-01
56	0.00	0.000	4.614	0.0289	9.7498	5.0520	1.14E-01
57	0.00	0.000	2.686	0.0200	8.9383	4.6314	1.12E-01
58	0.00	0.000	0.224	0.0192	7.7066	3.9932	1.09E-01
59	14.00	0.000	1.539	0.0608	6.6415	3.4414	1.06E-01
60	2.00	0.000	5.641	0.0445	5.7529	2.9809	1.03E-01
61	0.70	0.000	6.128	0.0264	5.2333	2.7117	1.01E-01
62	27.30	0.000	5.147	0.0961	4.5093	2.3365	9.94E-02
63	0.20	0.000	3.687	0.0420	3.9986	2.0719	9.79E-02
64	0.20	0.000	5.531	0.0242	3.6296	1.8807	9.69E-02
65	19.00	0.000	5.801	0.0682	4.2602	2.2074	9.87E-02
66	0.00	0.000	5.758	0.0474	5.1358	2.6611	1.01E-01
67	0.00	0.000	5.404	0.0294	5.2416	2.7160	1.01E-01
68	0.00	0.000	3.130	0.0190	4.5100	2.3369	9.94E-02
69	3.00	0.000	2.119	0.0219	3.8774	2.0091	9.76E-02
70	0.00	0.000	0.459	0.0204	3.3304	1.7257	9.60E-02
71	0.00	0.000	0.341	0.0193	2.8574	1.4806	9.46E-02
72	0.00	0.000	0.060	0.0191	2.4484	1.2687	9.34E-02
73	0.00	0.000	0.015	0.0190	2.0947	1.0854	9.24E-02
74	0.00	0.000	0.004	0.0190	1.7889	0.9269	9.16E-02
75	0.00	0.000	0.001	0.0190	1.5245	0.7899	9.08E-02
76	0.00	0.000	0.000	0.0190	1.2958	0.6714	9.01E-02
77	0.00	0.000	0.000	0.0190	1.0980	0.5690	8.96E-02
78	0.00	0.000	0.000	0.0190	0.9271	0.4804	8.91E-02
79	0.00	0.000	0.000	0.0190	0.7792	0.4038	8.86E-02

80	15.00	0.000	0.603	0.0670	0.6514	0.3375	8.83E-02
81	9.00	0.000	0.765	0.0707	0.5408	0.2802	8.80E-02
82	15.00	0.000	5.825	0.0709	0.4452	0.2307	8.77E-02
83	4.00	0.000	6.032	0.0561	0.6430	0.3332	8.83E-02
84	0.00	0.000	5.232	0.0363	1.3164	0.6821	9.02E-02
85	0.00	0.000	5.034	0.0195	2.4883	1.2893	9.36E-02
86	0.00	0.000	0.108	0.0191	3.5743	1.8520	9.67E-02
87	0.00	0.000	0.027	0.0190	4.1663	2.1588	9.84E-02
88	0.00	0.000	0.007	0.0190	3.6299	1.8809	9.69E-02
89	0.00	0.000	0.002	0.0190	3.1164	1.6148	9.54E-02
90	0.00	0.000	0.000	0.0190	2.6723	1.3847	9.41E-02
91	0.00	0.000	0.000	0.0190	2.2883	1.1857	9.30E-02
92	0.00	0.000	0.000	0.0190	1.9563	1.0137	9.20E-02
93	3.00	0.000	0.436	0.0275	1.6692	0.8649	9.12E-02
94	12.00	0.000	0.634	0.0654	1.4210	0.7363	9.05E-02
95	0.20	0.000	0.847	0.0595	1.2689	0.6575	9.01E-02
96	0.00	0.000	0.787	0.0537	1.4512	0.7520	9.06E-02
97	0.40	0.000	0.800	0.0503	1.4010	0.7259	9.04E-02
98	0.00	0.000	0.721	0.0465	1.3178	0.6828	9.02E-02
99	0.00	0.000	0.686	0.0442	1.1938	0.6186	8.98E-02
100	3.00	0.000	0.717	0.0518	1.0098	0.5232	8.93E-02
101	23.50	0.000	0.694	0.0887	0.8508	0.4408	8.88E-02
102	14.00	0.000	4.972	0.0682	0.7132	0.3696	8.85E-02
103	2.00	0.000	6.073	0.0465	0.7800	0.4042	8.86E-02
104	1.00	0.000	5.814	0.0300	1.4848	0.7693	9.07E-02
105	0.00	0.000	3.094	0.0197	2.8924	1.4987	9.47E-02
106	2.00	0.000	1.289	0.0220	4.1244	2.1371	9.83E-02
107	0.00	0.000	0.735	0.0196	5.0863	2.6355	1.01E-01
108	0.00	0.000	0.130	0.0192	5.8103	3.0107	1.03E-01

109	0.00	0.000	0.034	0.0190	5.3876	2.7916	1.02E-01
110	0.00	0.000	0.010	0.0190	4.6364	2.4024	9.98E-02
111	0.00	0.000	0.002	0.0190	3.9868	2.0658	9.79E-02
112	0.00	0.000	0.001	0.0190	3.4250	1.7747	9.63E-02
113	0.00	0.000	0.000	0.0190	2.9392	1.5230	9.49E-02
114	0.00	0.000	0.000	0.0190	2.5191	1.3053	9.37E-02
115	0.00	0.000	0.000	0.0190	2.1559	1.1171	9.26E-02
116	0.00	0.000	0.000	0.0190	1.8418	0.9543	9.17E-02
117	0.00	0.000	0.000	0.0190	1.5702	0.8136	9.09E-02
118	0.00	0.000	0.000	0.0190	1.3353	0.6919	9.02E-02
119	0.00	0.000	0.000	0.0190	1.1322	0.5867	8.97E-02
120	0.00	0.000	0.000	0.0190	0.9566	0.4957	8.92E-02
121	0.00	0.000	0.000	0.0190	0.8048	0.4170	8.87E-02
122	0.20	0.000	0.104	0.0193	0.6735	0.3490	8.83E-02
123	0.00	0.000	0.053	0.0191	0.5599	0.2901	8.80E-02
124	0.00	0.000	0.030	0.0190	0.4617	0.2392	8.77E-02
125	0.00	0.000	0.009	0.0190	0.3768	0.1953	8.75E-02
126	0.00	0.000	0.002	0.0190	0.3034	0.1572	8.73E-02
127	0.00	0.000	0.001	0.0190	0.2399	0.1243	8.71E-02
128	3.00	0.000	0.288	0.0280	0.1850	0.0959	8.69E-02
129	2.00	0.000	0.282	0.0338	0.1376	0.0713	8.68E-02
130	0.20	0.000	0.434	0.0330	0.0965	0.0500	8.67E-02
131	0.60	0.000	0.488	0.0334	0.0610	0.0316	8.66E-02
132	0.00	0.000	0.453	0.0318	0.0303	0.0157	8.65E-02
133	0.00	0.000	0.429	0.0304	0.0051	0.0026	4.54E-02
134	0.00	0.000	0.418	0.0290	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.450	0.0275	0.0000	0.0000	0.00E+00
136	1.20	0.000	0.491	0.0299	0.0000	0.0000	0.00E+00
137	20.80	0.000	0.484	0.0976	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.469	0.0583	0.0048	0.0025	2.16E-02
139	2.40	0.000	0.511	0.0631	0.2916	0.1511	8.72E-02
140	0.00	0.000	0.454	0.0584	1.4765	0.7651	9.07E-02
141	0.00	0.000	0.447	0.0538	2.5073	1.2992	9.36E-02
142	0.00	0.000	0.440	0.0500	2.9625	1.5351	9.49E-02
143	5.00	0.000	0.482	0.0636	2.6434	1.3697	9.40E-02
144	0.00	0.000	0.428	0.0567	2.5644	1.3287	9.38E-02
145	0.00	0.000	0.422	0.0550	2.4518	1.2704	9.35E-02
146	0.00	0.000	0.416	0.0536	2.1030	1.0897	9.25E-02
147	0.00	0.000	0.411	0.0523	1.7961	0.9307	9.16E-02
148	0.00	0.000	0.405	0.0509	1.5307	0.7931	9.08E-02
149	9.00	0.000	0.450	0.0728	1.3011	0.6742	9.01E-02
150	0.00	0.000	4.578	0.0521	1.1543	0.5981	8.97E-02
151	0.00	0.000	4.575	0.0368	1.6652	0.8628	9.12E-02
152	0.00	0.000	5.097	0.0198	1.6160	0.8373	9.11E-02
153	0.00	0.000	0.191	0.0190	1.3876	0.7190	9.04E-02
154	0.00	0.000	0.000	0.0190	1.1813	0.6121	8.98E-02
155	0.00	0.000	0.000	0.0190	0.9991	0.5177	8.93E-02
156	0.00	0.000	0.000	0.0190	0.8415	0.4360	8.88E-02
157	0.80	0.000	0.141	0.0212	0.7052	0.3654	8.84E-02
158	0.00	0.000	0.413	0.0198	0.5874	0.3043	8.81E-02
159	0.10	0.000	0.270	0.0193	0.4855	0.2515	8.78E-02
160	0.20	0.000	0.171	0.0193	0.3973	0.2059	8.75E-02
161	0.00	0.000	0.065	0.0191	0.3212	0.1664	8.73E-02
162	0.00	0.000	0.028	0.0190	0.2553	0.1323	8.71E-02
163	0.00	0.000	0.009	0.0190	0.1983	0.1028	8.70E-02
164	0.00	0.000	0.002	0.0190	0.1490	0.0772	8.68E-02
165	0.00	0.000	0.001	0.0190	0.1064	0.0552	8.67E-02
166	0.00	0.000	0.000	0.0190	0.0696	0.0361	8.66E-02

167	0.00	0.000	0.000	0.0190	0.0378	0.0196	8.65E-02
168	0.00	0.000	0.000	0.0190	0.0102	0.0052	6.75E-02
169	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.50	0.000	0.082	0.0204	0.0000	0.0000	0.00E+00
199	0.60	0.000	0.205	0.0217	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.216	0.0210	0.0000	0.0000	2.56E-07
201	0.00	0.000	0.194	0.0203	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.242	0.0195	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.126	0.0191	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.028	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	1.00	0.000	0.074	0.0221	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.113	0.0217	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.149	0.0212	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.179	0.0206	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.178	0.0200	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.177	0.0194	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.097	0.0191	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.025	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	4.00	0.000	0.153	0.0318	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.159	0.0313	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.194	0.0306	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.193	0.0300	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.192	0.0294	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.192	0.0287	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.191	0.0281	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.190	0.0274	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.189	0.0268	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.209	0.0261	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.208	0.0254	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.207	0.0247	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.207	0.0240	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.206	0.0234	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.205	0.0227	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.204	0.0220	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.203	0.0213	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.203	0.0206	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.202	0.0200	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.214	0.0193	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.067	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.010	0.0190	0.0000	0.0000	0.00E+00
288	2.80	0.000	0.157	0.0278	0.0000	0.0000	0.00E+00
289	14.50	0.000	0.245	0.0753	0.0000	0.0000	0.00E+00
290	4.00	0.000	0.276	0.0643	0.0239	0.0124	4.33E-02
291	0.00	0.000	0.216	0.0595	0.1799	0.0932	8.69E-02
292	0.00	0.000	0.215	0.0542	0.9982	0.5172	8.93E-02
293	2.00	0.000	0.281	0.0586	1.8882	0.9784	9.18E-02
294	0.00	0.000	0.213	0.0574	2.1261	1.1016	9.25E-02
295	1.50	0.000	0.280	0.0598	1.8576	0.9625	9.17E-02
296	0.00	0.000	0.212	0.0576	1.7208	0.8916	9.14E-02
297	0.00	0.000	0.211	0.0550	1.5989	0.8285	9.10E-02
298	0.00	0.000	0.211	0.0522	1.5165	0.7858	9.08E-02
299	0.00	0.000	0.210	0.0498	1.4432	0.7478	9.06E-02
300	0.00	0.000	0.209	0.0478	1.3457	0.6973	9.03E-02
301	0.00	0.000	0.208	0.0461	1.2337	0.6393	9.00E-02
302	0.00	0.000	0.208	0.0445	1.1183	0.5795	8.96E-02
303	0.00	0.000	0.207	0.0431	1.0053	0.5209	8.93E-02
304	0.00	0.000	0.206	0.0419	0.8978	0.4652	8.90E-02
305	0.00	0.000	0.206	0.0407	0.7975	0.4132	8.87E-02
306	22.00	0.000	0.276	0.0921	0.6981	0.3617	8.84E-02
307	4.00	0.000	0.276	0.0598	0.5833	0.3023	8.81E-02
308	0.00	0.000	0.204	0.0549	0.5520	0.2860	8.80E-02
309	0.00	0.000	0.203	0.0531	1.3694	0.7096	9.03E-02
310	5.40	0.000	0.275	0.0622	2.6543	1.3754	9.40E-02
311	0.00	0.000	0.202	0.0574	3.6812	1.9075	9.70E-02

312	0.00	0.000	0.201	0.0548	4.1035	2.1263	9.82E-02
313	0.00	0.000	0.201	0.0526	4.7507	2.4616	1.00E-01
314	0.00	0.000	0.200	0.0507	4.8121	2.4934	1.00E-01
315	0.00	0.000	0.199	0.0494	4.2287	2.1912	9.86E-02
316	0.00	0.000	0.199	0.0487	3.6509	1.8918	9.69E-02
317	0.00	0.000	0.198	0.0480	3.1346	1.6242	9.54E-02
318	0.00	0.000	0.197	0.0474	2.6881	1.3928	9.41E-02
319	0.00	0.000	0.197	0.0467	2.3020	1.1928	9.30E-02
320	0.00	0.000	0.196	0.0461	1.9681	1.0198	9.21E-02
321	0.00	0.000	0.196	0.0454	1.6794	0.8702	9.12E-02
322	13.00	0.000	0.273	0.0821	1.4298	0.7408	9.05E-02
323	0.00	0.000	4.876	0.0479	1.3773	0.7137	9.04E-02
324	3.00	0.000	0.273	0.0570	1.6969	0.8792	9.13E-02
325	0.00	0.000	5.812	0.0356	2.5832	1.3385	9.38E-02
326	38.00	0.000	0.273	0.0942	2.4249	1.2565	9.34E-02
327	7.90	0.000	5.358	0.0631	2.1996	1.1397	9.27E-02
328	31.10	0.000	6.051	0.0938	2.3290	1.2068	9.31E-02
329	1.00	0.000	5.218	0.0531	2.3664	1.2262	9.32E-02
330	0.00	0.000	6.487	0.0303	2.4291	1.2586	9.34E-02
331	0.00	0.000	3.368	0.0191	4.0293	2.0878	9.80E-02
332	0.50	0.000	0.496	0.0191	5.5591	2.8805	1.02E-01
333	0.00	0.000	0.017	0.0190	6.7210	3.4825	1.06E-01
334	0.00	0.000	0.009	0.0190	7.5856	3.9306	1.08E-01
335	0.00	0.000	0.002	0.0190	8.2109	4.2546	1.10E-01
336	3.00	0.000	0.964	0.0258	8.6436	4.4788	1.11E-01
337	0.00	0.000	0.677	0.0235	8.9468	4.6359	1.12E-01
338	0.00	0.000	0.841	0.0207	8.3944	4.3497	1.11E-01
339	0.00	0.000	0.409	0.0194	7.2363	3.7496	1.07E-01
340	0.00	0.000	0.092	0.0191	6.2349	3.2307	1.04E-01

341	0.30	0.000	0.177	0.0195	5.3689	2.7820	1.02E-01
342	1.00	0.000	0.165	0.0222	4.6202	2.3940	9.97E-02
343	0.00	0.000	0.366	0.0210	3.9727	2.0585	9.78E-02
344	0.00	0.000	0.452	0.0195	3.4128	1.7684	9.62E-02
345	0.00	0.000	0.131	0.0191	2.9286	1.5175	9.48E-02
346	0.00	0.000	0.020	0.0190	2.5100	1.3006	9.36E-02
347	0.00	0.000	0.005	0.0190	2.1480	1.1130	9.26E-02
348	0.10	0.000	0.102	0.0190	1.8349	0.9508	9.17E-02
349	1.90	0.000	0.364	0.0241	1.5643	0.8105	9.09E-02
350	0.00	0.000	0.271	0.0232	1.3302	0.6893	9.02E-02
351	0.00	0.000	0.422	0.0218	1.1278	0.5844	8.96E-02
352	0.00	0.000	0.409	0.0204	0.9528	0.4937	8.91E-02
353	0.00	0.000	0.312	0.0194	0.8015	0.4153	8.87E-02
354	0.00	0.000	0.092	0.0191	0.6706	0.3475	8.83E-02
355	0.80	0.000	0.157	0.0212	0.5574	0.2888	8.80E-02
356	0.00	0.000	0.236	0.0205	0.4596	0.2381	8.77E-02
357	0.00	0.000	0.315	0.0194	0.3750	0.1943	8.75E-02
358	0.00	0.000	0.093	0.0191	0.3018	0.1564	8.73E-02
359	0.00	0.000	0.024	0.0190	0.2385	0.1236	8.71E-02
360	0.00	0.000	0.005	0.0190	0.1838	0.0953	8.69E-02
361	0.00	0.000	0.002	0.0190	0.1365	0.0707	8.68E-02
362	0.00	0.000	0.000	0.0190	0.0956	0.0496	8.67E-02
363	0.00	0.000	0.000	0.0190	0.0603	0.0312	8.66E-02
364	0.00	0.000	0.000	0.0190	0.0297	0.0154	8.65E-02
365	0.00	0.000	0.000	0.0190	0.0047	0.0024	4.34E-02

* = Frozen (air or soil)

Annual Totals for Year 18			
	mm*	cubic meters	percent
Precipitation	854.40	8,544.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	276.298	2,763.0	32.34
Drainage Collected from Layer 2	573.3855	5,733.9	67.11
Percolation/Leakage through Layer 3	24.047081	240.5	2.81
Average Head on Top of Layer 3	3.3508 (cm)	---	---
Change in Water Storage	-19.3303	-193.3	-2.26
Soil Water at Start of Year	870.8299	8,708.3	101.92
Soil Water at End of Year	851.4996	8,515.0	99.66
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 19

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone				
	Air	Soil				Water (cm/cm)	Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)	
1				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
2				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
3				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
4				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
5				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
6	*Note: head c			0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
7				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
8				0.60	0.000	0.094	0.0207	0.0000	0.0000	0.00E+00
9				22.00	0.000	0.393	0.0927	0.0000	0.0000	1.71E-07
10				18.00	0.000	0.460	0.0838	0.0000	0.0000	0.00E+00
11				0.40	0.000	4.207	0.0401	0.1120	0.0581	4.35E-02
12				0.40	0.000	6.252	0.0206	0.6769	0.3507	8.83E-02
13				0.00	0.000	0.357	0.0190	1.9172	0.9934	9.19E-02
14				0.00	0.000	0.011	0.0190	3.3006	1.7102	9.59E-02
15				0.40	0.000	0.238	0.0196	4.4112	2.2857	9.91E-02
16				0.60	0.000	0.194	0.0209	5.2793	2.7355	1.02E-01
17				0.00	0.000	0.405	0.0196	5.4358	2.8166	1.02E-01
18				0.00	0.000	0.124	0.0191	4.6780	2.4239	9.99E-02
19				0.00	0.000	0.032	0.0190	4.0227	2.0844	9.80E-02
20				0.00	0.000	0.008	0.0190	3.4560	1.7908	9.64E-02
21				0.00	0.000	0.002	0.0190	2.9660	1.5369	9.49E-02

22	0.00	0.000	0.001	0.0190	2.5423	1.3173	9.37E-02
23	0.00	0.000	0.000	0.0190	2.1759	1.1275	9.27E-02
24	0.00	0.000	0.000	0.0190	1.8591	0.9633	9.18E-02
25	0.50	0.000	0.121	0.0203	1.5852	0.8214	9.10E-02
26	0.00	0.000	0.222	0.0195	1.3483	0.6986	9.03E-02
27	21.00	0.000	0.628	0.0874	1.1434	0.5925	8.97E-02
28	0.80	0.000	4.674	0.0456	1.0962	0.5680	8.96E-02
29	1.60	0.000	0.727	0.0458	1.0878	0.5636	8.95E-02
30	0.00	0.000	0.647	0.0435	1.8993	0.9841	9.19E-02
31	80.00	0.000	0.685	0.1151	2.8417	1.4725	9.46E-02
32	0.30	0.000	5.154	0.0435	2.6052	1.3499	9.39E-02
33	32.80	0.000	4.432	0.0897	3.7748	1.9559	9.73E-02
34	19.90	0.000	4.652	0.0864	5.1173	2.6516	1.01E-01
35	0.00	0.000	5.503	0.0399	4.9230	2.5509	1.01E-01
36	0.00	0.000	5.481	0.0216	5.2062	2.6976	1.01E-01
37	1.50	0.000	1.050	0.0225	7.4265	3.8481	1.08E-01
38	9.00	0.000	2.677	0.0435	9.4255	4.8839	1.14E-01
39	5.00	0.000	4.423	0.0455	10.8661	5.6304	1.18E-01
40	10.00	0.000	3.832	0.0660	11.8537	6.1421	1.21E-01
41	29.00	0.000	6.285	0.0893	12.4890	6.4713	1.22E-01
42	0.00	0.000	6.035	0.0455	11.6094	6.0155	1.20E-01
43	0.00	0.000	6.684	0.0232	10.7681	5.5796	1.17E-01
44	0.00	0.000	1.257	0.0190	11.4631	5.9397	1.19E-01
45	0.00	0.000	0.000	0.0190	12.1456	6.2933	1.21E-01
46	0.00	0.000	0.000	0.0190	12.5523	6.5041	1.23E-01
47	0.00	0.000	0.000	0.0190	12.7460	6.6045	1.23E-01
48	8.00	0.000	0.930	0.0426	12.7765	6.6202	1.23E-01
49	241.00	0.000	3.742	0.1618	12.5727	6.5147	1.23E-01
50	87.00	0.000	3.635	0.1012	11.1731	5.7894	1.19E-01

51	37.00	0.000	6.763	0.0997	11.0394	5.7201	1.18E-01
52	5.00	0.000	5.687	0.0588	21.5466	11.1646	1.48E-01
53	4.50	0.000	5.553	0.0524	107.6925	16.6948	3.97E-01
54	0.60	0.000	5.446	0.0362	287.0690	20.3681	9.13E-01
55	0.00	0.000	5.017	0.0195	264.9508	19.7220	8.49E-01
56	2.50	0.000	1.721	0.0221	243.5744	19.1098	7.88E-01
57	0.00	0.000	0.632	0.0200	222.8843	18.5315	7.28E-01
58	7.00	0.000	2.591	0.0347	202.8511	17.9883	6.71E-01
59	0.00	0.000	3.835	0.0219	123.2266	16.5508	4.41E-01
60	0.60	0.000	1.258	0.0197	60.0073	15.5966	2.59E-01
61	0.00	0.000	0.163	0.0192	58.1141	15.5933	2.54E-01
62	0.00	0.000	0.043	0.0190	54.4436	15.5870	2.43E-01
63	1.70	0.000	0.437	0.0232	49.3679	15.5782	2.29E-01
64	1.30	0.000	0.615	0.0255	43.1564	15.5675	2.11E-01
65	0.00	0.000	0.540	0.0237	36.0122	15.5552	1.90E-01
66	0.00	0.000	0.731	0.0213	28.7824	14.9139	1.69E-01
67	0.00	0.000	0.506	0.0196	26.8840	13.9302	1.64E-01
68	0.00	0.000	0.128	0.0191	25.0913	13.0013	1.59E-01
69	0.00	0.000	0.033	0.0190	23.4099	12.1301	1.54E-01
70	0.00	0.000	0.008	0.0190	21.8409	11.3171	1.49E-01
71	0.00	0.000	0.003	0.0190	20.3823	10.5613	1.45E-01
72	0.00	0.000	0.000	0.0190	18.8934	9.7898	1.41E-01
73	0.00	0.000	0.000	0.0190	16.4829	8.5408	1.34E-01
74	0.00	0.000	0.000	0.0190	14.2305	7.3737	1.27E-01
75	0.00	0.000	0.000	0.0190	12.2829	6.3645	1.22E-01
76	0.00	0.000	0.000	0.0190	10.5987	5.4918	1.17E-01
77	0.00	0.000	0.000	0.0190	9.1424	4.7372	1.13E-01
78	0.00	0.000	0.000	0.0190	7.8831	4.0847	1.09E-01
79	0.00	0.000	0.000	0.0190	6.7941	3.5204	1.06E-01

80	14.00	0.000	0.434	0.0642	5.8525	3.0325	1.03E-01
81	2.00	0.000	0.559	0.0611	5.0383	2.6107	1.01E-01
82	32.00	0.000	0.596	0.0988	4.5402	2.3525	9.95E-02
83	0.00	0.000	4.408	0.0449	4.0804	2.1143	9.81E-02
84	30.00	0.000	4.349	0.0841	4.2273	2.1904	9.86E-02
85	32.00	0.000	4.302	0.0890	4.8780	2.5276	1.00E-01
86	10.00	0.000	4.670	0.0656	4.2942	2.2251	9.88E-02
87	27.00	0.000	5.748	0.0888	4.1149	2.1322	9.82E-02
88	0.00	0.000	6.291	0.0398	4.1822	2.1671	9.84E-02
89	0.00	0.000	5.621	0.0210	4.8817	2.5295	1.00E-01
90	0.00	0.000	0.607	0.0190	7.3614	3.8144	1.08E-01
91	0.00	0.000	0.000	0.0190	9.2780	4.8075	1.13E-01
92	0.00	0.000	0.000	0.0190	10.6440	5.5153	1.17E-01
93	0.00	0.000	0.000	0.0190	11.5824	6.0015	1.20E-01
94	0.00	0.000	0.000	0.0190	12.1890	6.3159	1.22E-01
95	0.00	0.000	0.000	0.0190	12.5386	6.4970	1.23E-01
96	0.00	0.000	0.000	0.0190	12.6898	6.5753	1.23E-01
97	0.00	0.000	0.000	0.0190	12.6891	6.5750	1.23E-01
98	0.00	0.000	0.000	0.0190	12.5729	6.5148	1.23E-01
99	0.00	0.000	0.000	0.0190	12.3704	6.4098	1.22E-01
100	0.00	0.000	0.000	0.0190	11.9802	6.2076	1.21E-01
101	0.00	0.000	0.000	0.0190	10.5236	5.4529	1.17E-01
102	45.00	0.000	0.918	0.0901	9.0775	4.7036	1.13E-01
103	285.00	0.000	3.720	0.1680	7.8270	4.0556	1.09E-01
104	16.00	0.000	6.727	0.0700	7.3614	3.8144	1.08E-01
105	2.00	0.000	6.397	0.0471	19.6949	10.2051	1.43E-01
106	0.00	0.000	5.729	0.0263	35.9976	14.9242	1.90E-01
107	0.00	0.000	2.173	0.0191	101.4356	16.4298	3.79E-01
108	0.00	0.000	0.024	0.0190	225.0821	18.5921	7.35E-01

109	0.00	0.000	0.006	0.0190	204.9800	18.0451	6.77E-01
110	0.00	0.000	0.001	0.0190	154.9787	17.0350	5.33E-01
111	0.00	0.000	0.000	0.0190	59.9229	15.5965	2.59E-01
112	0.00	0.000	0.000	0.0190	58.2299	15.5935	2.54E-01
113	0.00	0.000	0.000	0.0190	54.7175	15.5875	2.44E-01
114	0.00	0.000	0.000	0.0190	49.7674	15.5789	2.30E-01
115	6.00	0.000	0.545	0.0372	43.6580	15.5684	2.12E-01
116	0.00	0.000	0.894	0.0342	36.5983	15.5562	1.92E-01
117	2.00	0.000	0.865	0.0380	28.9346	14.9927	1.70E-01
118	0.00	0.000	0.849	0.0352	27.0359	14.0089	1.64E-01
119	0.00	0.000	0.836	0.0324	25.2364	13.0765	1.59E-01
120	0.00	0.000	0.779	0.0298	23.5475	12.2014	1.54E-01
121	0.00	0.000	0.708	0.0274	21.9706	11.3842	1.50E-01
122	0.00	0.000	0.685	0.0251	20.5039	10.6243	1.45E-01
123	0.00	0.000	0.657	0.0229	19.0630	9.8777	1.41E-01
124	0.00	0.000	0.672	0.0207	16.7096	8.6582	1.35E-01
125	0.00	0.000	0.407	0.0193	14.4265	7.4752	1.28E-01
126	0.00	0.000	0.102	0.0190	12.4523	6.4523	1.22E-01
127	0.00	0.000	0.000	0.0190	10.7452	5.5677	1.17E-01
128	0.00	0.000	0.000	0.0190	9.2691	4.8029	1.13E-01
129	0.00	0.000	0.000	0.0190	7.9926	4.1415	1.09E-01
130	0.00	0.000	0.000	0.0190	6.8889	3.5695	1.06E-01
131	0.00	0.000	0.000	0.0190	5.9345	3.0750	1.03E-01
132	0.00	0.000	0.000	0.0190	5.1092	2.6474	1.01E-01
133	0.00	0.000	0.000	0.0190	4.3955	2.2776	9.91E-02
134	5.00	0.000	0.267	0.0348	3.7784	1.9578	9.73E-02
135	0.00	0.000	0.346	0.0336	3.2448	1.6813	9.57E-02
136	0.00	0.000	0.415	0.0322	2.7834	1.4422	9.44E-02
137	2.00	0.000	0.469	0.0373	2.3844	1.2355	9.33E-02

138	1.00	0.000	0.495	0.0390	2.0394	1.0567	9.23E-02
139	2.00	0.000	0.511	0.0440	1.7410	0.9021	9.14E-02
140	0.00	0.000	0.444	0.0425	1.4831	0.7685	9.07E-02
141	0.00	0.000	0.421	0.0411	1.2600	0.6529	9.00E-02
142	0.00	0.000	0.440	0.0396	1.0671	0.5529	8.95E-02
143	0.00	0.000	0.433	0.0382	0.9003	0.4665	8.90E-02
144	0.00	0.000	0.426	0.0368	0.7561	0.3918	8.86E-02
145	0.00	0.000	0.412	0.0354	0.6313	0.3271	8.82E-02
146	0.00	0.000	0.428	0.0340	0.5235	0.2713	8.79E-02
147	0.00	0.000	0.422	0.0326	0.4302	0.2229	8.76E-02
148	0.00	0.000	0.416	0.0312	0.3496	0.1811	8.74E-02
149	0.00	0.000	0.411	0.0298	0.2799	0.1450	8.72E-02
150	0.00	0.000	0.405	0.0285	0.2196	0.1138	8.70E-02
151	0.00	0.000	0.400	0.0271	0.1675	0.0868	8.69E-02
152	4.00	0.000	0.449	0.0390	0.1224	0.0634	8.68E-02
153	0.00	0.000	0.391	0.0377	0.0834	0.0432	8.66E-02
154	0.00	0.000	0.386	0.0364	0.0497	0.0257	8.65E-02
155	0.00	0.000	0.382	0.0351	0.0205	0.0106	8.65E-02
156	0.00	0.000	0.378	0.0338	0.0010	0.0004	1.49E-02
157	0.00	0.000	0.374	0.0326	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.370	0.0314	0.0000	0.0000	0.00E+00
159	1.10	0.000	0.421	0.0336	0.0000	0.0000	0.00E+00
160	5.90	0.000	0.417	0.0519	0.0000	0.0000	0.00E+00
161	31.00	0.000	0.414	0.1015	0.0949	0.0492	4.35E-02
162	0.00	0.000	5.220	0.0462	0.2738	0.1419	8.72E-02
163	0.00	0.000	4.994	0.0296	1.0054	0.5210	8.93E-02
164	0.00	0.000	2.808	0.0196	2.4696	1.2796	9.35E-02
165	1.00	0.000	0.561	0.0211	3.6872	1.9105	9.70E-02
166	0.00	0.000	0.497	0.0194	4.6722	2.4209	9.99E-02

167	0.00	0.000	0.090	0.0191	5.2043	2.6967	1.01E-01
168	3.00	0.000	0.961	0.0259	4.5679	2.3669	9.96E-02
169	1.00	0.000	0.738	0.0268	3.9275	2.0351	9.77E-02
170	0.00	0.000	0.919	0.0237	3.3737	1.7481	9.61E-02
171	0.00	0.000	0.897	0.0207	2.8948	1.5000	9.47E-02
172	0.00	0.000	0.443	0.0192	2.4808	1.2854	9.35E-02
173	0.00	0.000	0.056	0.0191	2.1227	1.0999	9.25E-02
174	0.00	0.000	0.015	0.0190	1.8131	0.9395	9.16E-02
175	0.00	0.000	0.000	0.0190	1.5454	0.8008	9.08E-02
176	0.00	0.000	0.000	0.0190	1.3139	0.6808	9.02E-02
177	0.00	0.000	0.000	0.0190	1.1137	0.5771	8.96E-02
178	0.00	0.000	0.000	0.0190	0.9406	0.4874	8.91E-02
179	0.00	0.000	0.000	0.0190	0.7909	0.4098	8.87E-02
180	0.00	0.000	0.000	0.0190	0.6615	0.3427	8.83E-02
181	0.00	0.000	0.000	0.0190	0.5495	0.2848	8.80E-02
182	0.00	0.000	0.000	0.0190	0.4528	0.2346	8.77E-02
183	0.00	0.000	0.000	0.0190	0.3691	0.1912	8.75E-02
184	0.00	0.000	0.000	0.0190	0.2967	0.1537	8.73E-02
185	0.20	0.000	0.105	0.0193	0.2341	0.1213	8.71E-02
186	0.00	0.000	0.049	0.0192	0.1800	0.0933	8.69E-02
187	0.00	0.000	0.035	0.0190	0.1332	0.0690	8.68E-02
188	0.00	0.000	0.009	0.0190	0.0928	0.0481	8.67E-02
189	0.00	0.000	0.002	0.0190	0.0578	0.0299	8.66E-02
190	0.00	0.000	0.001	0.0190	0.0275	0.0143	8.65E-02
191	0.00	0.000	0.000	0.0190	0.0037	0.0018	3.69E-02
192	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	3.00	0.000	0.226	0.0282	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.167	0.0277	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.266	0.0268	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.264	0.0259	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.298	0.0249	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.306	0.0239	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.298	0.0229	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.294	0.0219	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.304	0.0209	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.329	0.0198	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.201	0.0192	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.040	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	15.00	0.000	0.281	0.0681	0.0000	0.0000	0.00E+00
228	32.00	0.000	0.386	0.0952	0.0000	0.0000	0.00E+00
229	0.00	0.000	5.850	0.0457	0.0447	0.0232	2.17E-02
230	0.00	0.000	5.860	0.0262	0.7208	0.3735	8.85E-02
231	0.00	0.000	1.739	0.0190	2.2138	1.1471	9.28E-02
232	0.00	0.000	0.000	0.0190	3.5467	1.8378	9.66E-02
233	0.00	0.000	0.000	0.0190	4.6597	2.4145	9.98E-02
234	0.00	0.000	0.000	0.0190	5.5217	2.8611	1.02E-01
235	0.00	0.000	0.000	0.0190	6.0172	3.1179	1.04E-01
236	0.00	0.000	0.000	0.0190	5.3152	2.7541	1.02E-01
237	0.00	0.000	0.000	0.0190	4.5736	2.3699	9.96E-02
238	0.00	0.000	0.000	0.0190	3.9325	2.0376	9.77E-02
239	0.00	0.000	0.000	0.0190	3.3780	1.7503	9.61E-02
240	0.00	0.000	0.000	0.0190	2.8986	1.5019	9.47E-02
241	0.00	0.000	0.000	0.0190	2.4840	1.2871	9.36E-02
242	0.00	0.000	0.000	0.0190	2.1255	1.1013	9.25E-02
243	0.00	0.000	0.000	0.0190	1.8155	0.9407	9.16E-02
244	0.00	0.000	0.000	0.0190	1.5475	0.8018	9.09E-02
245	0.00	0.000	0.000	0.0190	1.3157	0.6817	9.02E-02
246	0.00	0.000	0.000	0.0190	1.1152	0.5779	8.96E-02
247	0.00	0.000	0.000	0.0190	0.9419	0.4881	8.91E-02
248	0.00	0.000	0.000	0.0190	0.7921	0.4104	8.87E-02
249	0.00	0.000	0.000	0.0190	0.6625	0.3433	8.83E-02
250	0.00	0.000	0.000	0.0190	0.5504	0.2852	8.80E-02
251	0.00	0.000	0.000	0.0190	0.4535	0.2350	8.77E-02
252	0.00	0.000	0.000	0.0190	0.3697	0.1916	8.75E-02
253	0.00	0.000	0.000	0.0190	0.2973	0.1540	8.73E-02

254	0.00	0.000	0.000	0.0190	0.2346	0.1216	8.71E-02
255	0.00	0.000	0.000	0.0190	0.1804	0.0935	8.69E-02
256	0.00	0.000	0.000	0.0190	0.1336	0.0692	8.68E-02
257	0.00	0.000	0.000	0.0190	0.0931	0.0482	8.67E-02
258	0.00	0.000	0.000	0.0190	0.0581	0.0301	8.66E-02
259	0.00	0.000	0.000	0.0190	0.0278	0.0144	8.65E-02
260	0.00	0.000	0.000	0.0190	0.0038	0.0018	3.76E-02
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.40	0.000	0.097	0.0200	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.052	0.0198	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.136	0.0194	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.074	0.0191	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.029	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.008	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	3.43E-07
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
295	2.00	0.000	0.196	0.0250	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.133	0.0246	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.212	0.0239	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.210	0.0232	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.208	0.0225	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.207	0.0218	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.205	0.0211	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.181	0.0205	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.222	0.0198	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.190	0.0191	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.029	0.0190	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
309	6.80	0.000	0.188	0.0410	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.236	0.0403	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.261	0.0394	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.275	0.0385	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.274	0.0376	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.272	0.0366	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.270	0.0357	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.268	0.0349	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.267	0.0340	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.267	0.0331	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.266	0.0322	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.269	0.0313	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.263	0.0304	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.268	0.0295	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.266	0.0286	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.265	0.0278	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.264	0.0269	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.262	0.0260	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.261	0.0251	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.259	0.0243	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.258	0.0234	0.0000	0.0000	0.00E+00
330	2.00	0.000	0.336	0.0289	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.255	0.0281	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.254	0.0273	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.253	0.0264	0.0000	0.0000	0.00E+00
334	5.00	0.000	0.333	0.0420	0.0000	0.0000	0.00E+00
335	2.60	0.000	0.333	0.0495	0.0000	0.0000	0.00E+00
336	0.20	0.000	0.325	0.0491	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.248	0.0483	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.247	0.0475	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.246	0.0466	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.245	0.0455	0.0022	0.0011	6.24E-02

341	4.00	0.000	0.329	0.0575	0.0055	0.0029	8.64E-02
342	0.00	0.000	0.242	0.0549	0.0009	0.0003	1.34E-02
343	0.00	0.000	0.241	0.0525	0.1891	0.0980	8.69E-02
344	0.00	0.000	0.240	0.0498	0.2643	0.1370	8.72E-02
345	0.00	0.000	0.239	0.0476	0.3421	0.1773	8.74E-02
346	0.00	0.000	0.238	0.0456	0.3762	0.1949	8.75E-02
347	9.00	0.000	0.323	0.0726	0.3543	0.1836	8.74E-02
348	0.00	0.000	0.236	0.0567	0.4352	0.2255	8.77E-02
349	49.00	0.000	0.321	0.1055	0.7268	0.3766	8.85E-02
350	0.00	0.000	6.603	0.0432	0.7329	0.3798	8.85E-02
351	0.00	0.000	6.834	0.0204	1.8296	0.9480	9.17E-02
352	0.00	0.000	0.322	0.0190	3.6520	1.8923	9.69E-02
353	0.00	0.000	0.000	0.0190	5.0725	2.6284	1.01E-01
354	0.30	0.000	0.261	0.0191	6.1759	3.2001	1.04E-01
355	2.50	0.000	0.764	0.0249	7.0058	3.6301	1.07E-01
356	0.00	0.000	0.571	0.0230	7.6138	3.9452	1.08E-01
357	0.00	0.000	0.798	0.0204	8.0493	4.1708	1.10E-01
358	0.00	0.000	0.321	0.0193	7.8080	4.0458	1.09E-01
359	0.00	0.000	0.074	0.0190	6.7292	3.4868	1.06E-01
360	0.00	0.000	0.009	0.0190	5.7964	3.0035	1.03E-01
361	0.00	0.000	0.003	0.0190	4.9898	2.5855	1.01E-01
362	0.00	0.000	0.000	0.0190	4.2923	2.2241	9.88E-02
363	0.00	0.000	0.000	0.0190	3.6891	1.9116	9.70E-02
364	0.00	0.000	0.000	0.0190	3.1676	1.6413	9.55E-02
365	0.00	0.000	0.000	0.0190	2.7166	1.4076	9.42E-02

* = Frozen (air or soil)

Annual Totals for Year 19			
	mm*	cubic meters	percent
Precipitation	1,344.00	13,440.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	276.227	2,762.3	20.55
Drainage Collected from Layer 2	1,027.4084	10,274.1	76.44
Percolation/Leakage through Layer 3	31.370238	313.7	2.33
Average Head on Top of Layer 3	10.9253 (cm)	---	---
Change in Water Storage	8.9941	89.9	0.67
Soil Water at Start of Year	851.4996	8,515.0	63.36
Soil Water at End of Year	860.4937	8,604.9	64.02
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 20

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone			
	Air	Soil				Water (cm/cm)	Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
1			0.00	0.000	0.000	0.0190	2.3267	1.2056	9.31E-02
2			6.00	0.000	0.341	0.0379	1.9895	1.0309	9.21E-02
3			6.00	0.000	0.594	0.0559	1.6979	0.8798	9.13E-02
4			111.00	0.000	0.689	0.1161	1.5139	0.7845	9.08E-02
5			1.50	0.000	5.190	0.0477	1.6645	0.8625	9.12E-02
6	*Note: head c		6.50	0.000	3.267	0.0577	3.4664	1.7961	9.64E-02
7			9.50	0.000	5.060	0.0667	6.4796	3.3575	1.05E-01
8			0.50	0.000	5.207	0.0482	8.3615	4.3326	1.10E-01
9			0.00	0.000	5.822	0.0288	9.8645	5.1114	1.15E-01
10			0.00	0.000	2.549	0.0190	11.1176	5.7607	1.18E-01
11			0.00	0.000	0.008	0.0190	11.9641	6.1993	1.21E-01
12			0.00	0.000	0.002	0.0190	12.5413	6.4984	1.23E-01
13			0.00	0.000	0.001	0.0190	12.8622	6.6647	1.23E-01
14			0.00	0.000	0.000	0.0190	12.9862	6.7289	1.24E-01
15			0.00	0.000	0.000	0.0190	12.9598	6.7152	1.24E-01
16			0.00	0.000	0.000	0.0190	12.8197	6.6427	1.23E-01
17			12.00	0.000	0.970	0.0558	12.5951	6.5263	1.23E-01
18			7.00	0.000	1.150	0.0630	12.2766	6.3612	1.22E-01
19			0.00	0.000	5.816	0.0411	11.2182	5.8128	1.19E-01
20			3.00	0.000	1.141	0.0473	10.3545	5.3653	1.16E-01
21			0.00	0.000	1.000	0.0439	9.0399	4.6841	1.12E-01

22	56.00	0.000	0.982	0.1081	7.7945	4.0388	1.09E-01
23	35.00	0.000	6.302	0.0936	6.7175	3.4808	1.06E-01
24	0.00	0.000	4.738	0.0463	5.7863	2.9982	1.03E-01
25	5.00	0.000	6.164	0.0401	5.7069	2.9571	1.03E-01
26	25.00	0.000	6.653	0.0958	7.5656	3.9202	1.08E-01
27	0.00	0.000	7.334	0.0375	8.9589	4.6421	1.12E-01
28	0.00	0.000	5.546	0.0190	9.0025	4.6647	1.12E-01
29	0.00	0.000	0.000	0.0190	10.0624	5.2139	1.15E-01
30	0.00	0.000	0.000	0.0190	11.0189	5.7096	1.18E-01
31	24.00	0.000	5.424	0.0809	11.6503	6.0367	1.20E-01
32	0.00	0.000	5.045	0.0352	12.0665	6.2524	1.21E-01
33	2.00	0.000	6.084	0.0216	11.3393	5.8756	1.19E-01
34	0.00	0.000	0.638	0.0195	11.2000	5.8034	1.19E-01
35	10.50	0.000	4.170	0.0406	11.4806	5.9488	1.19E-01
36	2.00	0.000	4.279	0.0330	11.6016	6.0115	1.20E-01
37	0.00	0.000	3.748	0.0205	11.5957	6.0084	1.20E-01
38	0.00	0.000	0.384	0.0192	11.4926	5.9550	1.19E-01
39	2.00	0.000	0.843	0.0231	10.9013	5.6486	1.18E-01
40	4.00	0.000	0.721	0.0340	9.4041	4.8728	1.13E-01
41	0.00	0.000	1.085	0.0304	8.1094	4.2019	1.10E-01
42	4.00	0.000	1.076	0.0401	6.9898	3.6218	1.07E-01
43	0.00	0.000	0.981	0.0369	6.0217	3.1202	1.04E-01
44	0.00	0.000	0.917	0.0338	5.1846	2.6865	1.01E-01
45	0.20	0.000	0.947	0.0313	4.4608	2.3114	9.92E-02
46	3.00	0.000	0.893	0.0383	3.8348	1.9871	9.74E-02
47	0.00	0.000	0.801	0.0357	3.2936	1.7066	9.59E-02
48	0.00	0.000	0.769	0.0331	2.8256	1.4641	9.45E-02
49	0.00	0.000	0.728	0.0307	2.4209	1.2544	9.34E-02
50	0.00	0.000	0.693	0.0284	2.0709	1.0731	9.24E-02

51	0.00	0.000	0.694	0.0261	1.7683	0.9163	9.15E-02
52	3.00	0.000	0.719	0.0337	1.5067	0.7807	9.07E-02
53	3.00	0.000	0.698	0.0413	1.2804	0.6634	9.01E-02
54	4.00	0.000	0.678	0.0524	1.0847	0.5621	8.95E-02
55	1.00	0.000	0.653	0.0536	0.9155	0.4744	8.90E-02
56	0.00	0.000	0.593	0.0516	0.7692	0.3986	8.86E-02
57	1.40	0.000	0.629	0.0541	0.6427	0.3330	8.82E-02
58	0.00	0.000	6.572	0.0321	0.5417	0.2807	8.80E-02
59	0.00	0.000	0.563	0.0303	0.4460	0.2311	8.77E-02
60	0.00	0.000	0.550	0.0284	0.3632	0.1882	8.74E-02
61	0.00	0.000	0.537	0.0266	0.2916	0.1511	8.72E-02
62	0.00	0.000	0.526	0.0249	0.2297	0.1190	8.71E-02
63	0.00	0.000	0.515	0.0232	0.1762	0.0913	8.69E-02
64	0.00	0.000	0.505	0.0215	0.1299	0.0673	8.68E-02
65	0.00	0.000	0.495	0.0198	0.0899	0.0466	8.67E-02
66	0.00	0.000	0.254	0.0190	0.0553	0.0287	8.66E-02
67	0.00	0.000	0.000	0.0190	0.0254	0.0132	8.65E-02
68	0.00	0.000	0.000	0.0190	0.0028	0.0012	3.04E-02
69	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
71	10.00	0.000	0.351	0.0512	0.0000	0.0000	0.00E+00
72	4.00	0.000	0.452	0.0630	0.0000	0.0000	0.00E+00
73	0.00	0.000	6.582	0.0376	0.1711	0.0887	6.53E-02
74	0.00	0.000	0.434	0.0361	0.2208	0.1144	8.70E-02
75	0.00	0.000	0.428	0.0347	0.1685	0.0873	8.69E-02
76	0.00	0.000	0.422	0.0333	0.1233	0.0639	8.68E-02
77	0.00	0.000	0.416	0.0319	0.0841	0.0436	8.66E-02
78	0.00	0.000	0.411	0.0306	0.0503	0.0261	8.65E-02
79	0.00	0.000	0.405	0.0292	0.0211	0.0109	8.65E-02

80	0.00	0.000	0.400	0.0279	0.0012	0.0005	1.67E-02
81	0.00	0.000	0.396	0.0266	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.391	0.0253	0.0000	0.0000	0.00E+00
83	0.00	0.000	0.386	0.0240	0.0000	0.0000	0.00E+00
84	0.00	0.000	0.382	0.0227	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.378	0.0214	0.0000	0.0000	0.00E+00
86	0.00	0.000	0.374	0.0202	0.0000	0.0000	0.00E+00
87	0.00	0.000	0.356	0.0190	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
91	10.00	0.000	0.289	0.0514	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.321	0.0503	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.348	0.0491	0.0000	0.0000	0.00E+00
94	2.00	0.000	0.396	0.0541	0.0063	0.0032	6.48E-02
95	10.50	0.000	0.393	0.0703	0.0056	0.0028	4.76E-02
96	0.00	0.000	7.040	0.0424	0.0418	0.0217	2.17E-02
97	0.00	0.000	6.624	0.0203	0.7429	0.3850	8.85E-02
98	2.00	0.000	1.332	0.0222	1.5813	0.8193	9.10E-02
99	0.00	0.000	0.745	0.0198	1.3518	0.7004	9.03E-02
100	0.00	0.000	0.167	0.0192	1.1465	0.5941	8.97E-02
101	0.00	0.000	0.045	0.0191	0.9689	0.5021	8.92E-02
102	0.50	0.000	0.164	0.0202	0.8154	0.4225	8.87E-02
103	0.00	0.000	0.172	0.0196	0.6827	0.3537	8.84E-02
104	0.00	0.000	0.114	0.0192	0.5679	0.2942	8.80E-02
105	1.50	0.000	0.226	0.0235	0.4686	0.2428	8.77E-02
106	0.00	0.000	0.378	0.0222	0.3828	0.1983	8.75E-02
107	0.30	0.000	0.611	0.0212	0.3086	0.1599	8.73E-02
108	2.00	0.000	0.576	0.0259	0.2444	0.1266	8.71E-02

109	0.00	0.000	0.354	0.0247	0.1889	0.0979	8.69E-02
110	0.00	0.000	0.492	0.0231	0.1409	0.0730	8.68E-02
111	3.00	0.000	0.522	0.0314	0.0994	0.0515	8.67E-02
112	0.00	0.000	0.550	0.0295	0.0635	0.0329	8.66E-02
113	0.00	0.000	0.532	0.0277	0.0325	0.0168	8.65E-02
114	0.00	0.000	0.516	0.0260	0.0066	0.0032	5.20E-02
115	0.00	0.000	0.501	0.0244	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.487	0.0227	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.526	0.0210	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.475	0.0194	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.097	0.0191	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.020	0.0190	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
137	0.40	0.000	0.092	0.0200	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.056	0.0198	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.134	0.0194	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.077	0.0191	0.0000	0.0000	0.00E+00
141	0.50	0.000	0.126	0.0204	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.170	0.0198	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.209	0.0191	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.028	0.0190	0.0000	0.0000	0.00E+00
145	0.20	0.000	0.094	0.0194	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.032	0.0193	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.062	0.0191	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.017	0.0190	0.0000	0.0000	0.00E+00
149	0.50	0.000	0.091	0.0204	0.0000	0.0000	0.00E+00
150	0.80	0.000	0.206	0.0224	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.198	0.0217	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.232	0.0209	0.0000	0.0000	1.20E-05
153	0.00	0.000	0.230	0.0202	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.216	0.0194	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.103	0.0191	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.024	0.0190	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
159	1.00	0.000	0.087	0.0220	0.0000	0.0000	0.00E+00
160	5.00	0.000	0.195	0.0381	0.0000	0.0000	0.00E+00
161	0.40	0.000	0.323	0.0383	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.289	0.0374	0.0000	0.0000	0.00E+00
163	1.00	0.000	0.348	0.0395	0.0000	0.0000	0.00E+00
164	2.00	0.000	0.346	0.0450	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.300	0.0440	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.308	0.0430	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.299	0.0420	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.294	0.0410	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.292	0.0401	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.299	0.0391	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.297	0.0381	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.286	0.0371	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.293	0.0361	0.0000	0.0000	0.00E+00
174	2.00	0.000	0.356	0.0416	0.0000	0.0000	0.00E+00
175	0.20	0.000	0.351	0.0411	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.288	0.0402	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.286	0.0392	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.284	0.0383	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.282	0.0373	0.0000	0.0000	0.00E+00
180	5.00	0.000	0.346	0.0528	0.0000	0.0000	0.00E+00
181	2.00	0.000	0.345	0.0583	0.0001	0.0000	1.15E-03
182	0.00	0.000	0.277	0.0574	0.0005	0.0001	7.12E-03
183	0.00	0.000	0.276	0.0544	0.0375	0.0194	4.33E-02
184	0.00	0.000	0.274	0.0512	0.2135	0.1106	8.70E-02
185	0.00	0.000	0.272	0.0486	0.3186	0.1651	8.73E-02
186	0.00	0.000	0.271	0.0465	0.3653	0.1893	8.75E-02
187	0.00	0.000	0.269	0.0447	0.3792	0.1965	8.75E-02
188	0.00	0.000	0.268	0.0430	0.3737	0.1937	8.75E-02
189	0.00	0.000	0.266	0.0415	0.3568	0.1849	8.74E-02
190	0.00	0.000	0.262	0.0406	0.3167	0.1641	8.73E-02
191	0.00	0.000	0.264	0.0397	0.2514	0.1303	8.71E-02
192	0.00	0.000	0.262	0.0389	0.1950	0.1010	8.70E-02
193	0.00	0.000	0.261	0.0380	0.1462	0.0757	8.68E-02
194	0.00	0.000	0.259	0.0371	0.1039	0.0539	8.67E-02
195	0.00	0.000	0.258	0.0363	0.0674	0.0349	8.66E-02

196	0.00	0.000	0.257	0.0354	0.0359	0.0186	8.65E-02
197	0.00	0.000	0.255	0.0346	0.0088	0.0045	6.20E-02
198	0.00	0.000	0.254	0.0337	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.253	0.0329	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.252	0.0320	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.250	0.0312	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.249	0.0304	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.248	0.0295	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.247	0.0287	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.246	0.0279	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.245	0.0271	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.244	0.0263	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.242	0.0255	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.241	0.0246	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.240	0.0238	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.239	0.0230	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.238	0.0223	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.237	0.0215	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.236	0.0207	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.235	0.0199	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.234	0.0191	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.034	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.50	0.000	0.093	0.0204	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.088	0.0201	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.135	0.0196	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.125	0.0192	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.043	0.0191	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.011	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	2.00	0.000	0.161	0.0251	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.084	0.0248	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.134	0.0244	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.134	0.0240	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.134	0.0235	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.133	0.0231	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.133	0.0226	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.132	0.0222	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.132	0.0217	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.132	0.0213	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.131	0.0209	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.128	0.0204	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.160	0.0199	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.174	0.0193	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.077	0.0191	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.017	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	0.20	0.000	0.091	0.0194	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.015	0.0193	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.033	0.0192	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.030	0.0191	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.025	0.0190	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0190	0.0000	0.0000	7.17E-06
301	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
305	1.00	0.000	0.099	0.0220	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.074	0.0218	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.091	0.0215	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.118	0.0211	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.118	0.0207	0.0000	0.0000	0.00E+00
310	2.00	0.000	0.203	0.0267	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.095	0.0263	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.121	0.0259	0.0000	0.0000	0.00E+00
313	2.00	0.000	0.204	0.0319	0.0000	0.0000	0.00E+00
314	0.50	0.000	0.230	0.0328	0.0000	0.0000	0.00E+00
315	0.40	0.000	0.235	0.0334	0.0000	0.0000	0.00E+00
316	0.10	0.000	0.203	0.0330	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.142	0.0326	0.0000	0.0000	1.09E-04
318	0.00	0.000	0.141	0.0321	0.0000	0.0000	0.00E+00
319	2.00	0.000	0.246	0.0379	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.156	0.0374	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.163	0.0369	0.0000	0.0000	0.00E+00
322	0.80	0.000	0.251	0.0387	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.163	0.0382	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.164	0.0376	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.154	0.0371	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.163	0.0366	0.0000	0.0000	0.00E+00
327	5.00	0.000	0.258	0.0524	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.162	0.0518	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.167	0.0513	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.167	0.0507	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.167	0.0502	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.166	0.0493	0.0026	0.0012	3.77E-02
333	0.00	0.000	0.166	0.0482	0.0162	0.0084	8.64E-02
334	0.00	0.000	0.166	0.0473	0.0319	0.0165	8.65E-02
335	0.00	0.000	0.165	0.0464	0.0387	0.0201	8.65E-02
336	0.00	0.000	0.165	0.0459	0.0215	0.0111	8.65E-02
337	22.00	0.000	0.264	0.0846	0.0235	0.0121	3.97E-02
338	0.00	0.000	0.164	0.0563	0.1817	0.0942	8.69E-02
339	2.00	0.000	0.264	0.0621	0.5034	0.2608	8.78E-02
340	0.00	0.000	0.164	0.0586	1.6582	0.8592	9.12E-02

341	0.00	0.000	0.163	0.0550	2.7449	1.4223	9.43E-02
342	2.00	0.000	0.265	0.0608	3.5716	1.8507	9.67E-02
343	0.00	0.000	0.163	0.0590	3.9775	2.0610	9.79E-02
344	0.00	0.000	0.162	0.0550	3.6005	1.8656	9.68E-02
345	0.00	0.000	0.162	0.0521	3.3298	1.7254	9.60E-02
346	0.00	0.000	0.162	0.0498	3.0180	1.5638	9.51E-02
347	3.00	0.000	0.266	0.0590	2.6641	1.3804	9.41E-02
348	0.20	0.000	0.250	0.0585	2.2994	1.1914	9.30E-02
349	1.50	0.000	0.266	0.0589	2.0947	1.0854	9.24E-02
350	0.00	0.000	0.160	0.0573	1.9788	1.0253	9.21E-02
351	0.80	0.000	0.266	0.0574	1.7905	0.9278	9.16E-02
352	0.00	0.000	0.160	0.0552	1.6663	0.8634	9.12E-02
353	0.00	0.000	0.159	0.0534	1.5262	0.7908	9.08E-02
354	0.00	0.000	0.159	0.0510	1.4216	0.7366	9.05E-02
355	2.00	0.000	0.266	0.0568	1.2924	0.6697	9.01E-02
356	2.00	0.000	0.267	0.0619	1.1249	0.5829	8.96E-02
357	0.00	0.000	0.158	0.0596	0.9907	0.5134	8.93E-02
358	0.00	0.000	0.158	0.0550	1.0987	0.5693	8.96E-02
359	0.00	0.000	0.158	0.0521	1.1777	0.6103	8.98E-02
360	0.10	0.000	0.223	0.0500	1.1580	0.6000	8.97E-02
361	1.00	0.000	0.268	0.0525	1.0568	0.5476	8.94E-02
362	67.00	0.000	0.268	0.1072	0.9795	0.5075	8.92E-02
363	63.00	0.000	4.195	0.0964	0.9065	0.4697	8.90E-02
364	6.00	0.000	5.438	0.0627	0.8622	0.4468	8.89E-02
365	0.00	0.000	4.999	0.0433	2.0172	1.0452	9.22E-02

* = Frozen (air or soil)

Annual Totals for Year 20			
	mm*	cubic meters	percent
Precipitation	604.00	6,040.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	217.303	2,173.0	35.98
Drainage Collected from Layer 2	254.5466	2,545.5	42.14
Percolation/Leakage through Layer 3	13.653779	136.5	2.26
Average Head on Top of Layer 3	1.3422 (cm)	---	---
Change in Water Storage	118.4963	1,185.0	19.62
Soil Water at Start of Year	860.4937	8,604.9	142.47
Soil Water at End of Year	978.9900	9,789.9	162.08
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 21

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	5.343	0.0212		8.4536	4.3803	1.11E-01
2			0.20	0.000	0.693	0.0190		10.4834	5.4320	1.17E-01
3			13.00	0.000	3.758	0.0498		11.9067	6.1695	1.21E-01
4			2.50	0.000	5.906	0.0385		12.8753	6.6714	1.23E-01
5			0.00	0.000	4.851	0.0223		13.4768	6.9831	1.25E-01
6	*Note: head c		0.00	0.000	0.944	0.0191		13.7973	7.1492	1.26E-01
7			0.00	0.000	0.031	0.0190		13.9037	7.2043	1.26E-01
8			0.00	0.000	0.007	0.0190		13.8480	7.1755	1.26E-01
9			0.00	0.000	0.002	0.0190		13.6711	7.0838	1.26E-01
10			0.00	0.000	0.001	0.0190		13.4049	6.9459	1.25E-01
11			0.00	0.000	0.000	0.0190		13.0746	6.7747	1.24E-01
12			0.00	0.000	0.000	0.0190		12.4570	6.4547	1.22E-01
13			0.00	0.000	0.000	0.0190		10.8336	5.6135	1.18E-01
14			0.00	0.000	0.000	0.0190		9.3455	4.8425	1.13E-01
15			0.00	0.000	0.000	0.0190		8.0587	4.1757	1.10E-01
16			0.00	0.000	0.000	0.0190		6.9461	3.5992	1.06E-01
17			0.00	0.000	0.000	0.0190		5.9839	3.1006	1.04E-01
18			7.00	0.000	0.399	0.0410		5.1519	2.6695	1.01E-01
19			2.00	0.000	0.688	0.0454		4.4325	2.2967	9.92E-02
20			0.00	0.000	0.682	0.0431		3.8104	1.9744	9.74E-02
21			0.00	0.000	0.678	0.0408		3.2724	1.6956	9.58E-02

22	0.00	0.000	0.648	0.0387	2.8073	1.4546	9.45E-02
23	0.00	0.000	0.573	0.0368	2.4051	1.2462	9.33E-02
24	0.00	0.000	0.607	0.0348	2.0572	1.0660	9.23E-02
25	0.00	0.000	0.609	0.0327	1.7565	0.9101	9.15E-02
26	22.00	0.000	0.666	0.0970	1.4964	0.7754	9.07E-02
27	0.50	0.000	4.227	0.0414	1.3123	0.6800	9.02E-02
28	1.50	0.000	5.616	0.0277	1.6191	0.8389	9.11E-02
29	0.20	0.000	2.155	0.0198	2.5531	1.3229	9.38E-02
30	2.00	0.000	0.949	0.0233	3.5550	1.8421	9.66E-02
31	12.70	0.000	1.214	0.0616	3.9637	2.0538	9.78E-02
32	0.00	0.000	5.993	0.0412	3.4050	1.7643	9.62E-02
33	0.00	0.000	1.366	0.0365	2.9600	1.5338	9.49E-02
34	0.20	0.000	1.269	0.0329	2.5406	1.3164	9.37E-02
35	0.00	0.000	0.855	0.0301	2.1745	1.1267	9.27E-02
36	2.00	0.000	1.067	0.0332	1.8578	0.9627	9.17E-02
37	10.50	0.000	0.996	0.0649	1.5841	0.8208	9.10E-02
38	0.00	0.000	6.082	0.0437	1.3659	0.7078	9.03E-02
39	2.00	0.000	0.937	0.0472	1.2106	0.6273	8.99E-02
40	56.00	0.000	0.888	0.1057	1.0244	0.5308	8.93E-02
41	0.00	0.000	6.359	0.0471	0.9017	0.4672	8.90E-02
42	0.00	0.000	5.229	0.0296	1.5533	0.8049	9.09E-02
43	1.00	0.000	3.444	0.0210	3.3033	1.7117	9.59E-02
44	0.00	0.000	0.520	0.0193	4.8040	2.4892	1.00E-01
45	0.00	0.000	0.065	0.0190	5.9783	3.0977	1.04E-01
46	0.00	0.000	0.011	0.0190	6.8653	3.5573	1.06E-01
47	0.00	0.000	0.003	0.0190	7.5192	3.8961	1.08E-01
48	0.00	0.000	0.001	0.0190	7.9844	4.1372	1.09E-01
49	0.00	0.000	0.000	0.0190	8.0487	4.1705	1.10E-01
50	0.00	0.000	0.000	0.0190	7.0185	3.6367	1.07E-01

51	0.00	0.000	0.000	0.0190	6.0466	3.1331	1.04E-01
52	0.00	0.000	0.000	0.0190	5.2061	2.6976	1.01E-01
53	2.00	0.000	0.474	0.0241	4.4793	2.3210	9.93E-02
54	10.00	0.000	0.682	0.0551	3.8509	1.9954	9.75E-02
55	0.00	0.000	0.797	0.0525	3.3075	1.7138	9.59E-02
56	0.00	0.000	0.827	0.0497	2.8376	1.4703	9.46E-02
57	0.00	0.000	0.787	0.0468	2.4329	1.2606	9.34E-02
58	0.00	0.000	0.726	0.0436	2.1379	1.1078	9.26E-02
59	0.00	0.000	0.721	0.0412	1.8524	0.9598	9.17E-02
60	0.00	0.000	0.694	0.0389	1.5794	0.8184	9.09E-02
61	29.00	0.000	0.724	0.0814	1.3563	0.7028	9.03E-02
62	0.00	0.000	5.601	0.0440	1.2805	0.6635	9.01E-02
63	0.60	0.000	4.285	0.0313	1.6295	0.8444	9.11E-02
64	45.00	0.000	2.927	0.0961	2.7362	1.4178	9.43E-02
65	63.50	0.000	4.834	0.0921	3.2428	1.6803	9.57E-02
66	42.60	0.000	5.161	0.0892	2.7817	1.4413	9.44E-02
67	1.20	0.000	5.530	0.0476	2.5473	1.3199	9.37E-02
68	0.00	0.000	4.608	0.0322	4.7180	2.4447	1.00E-01
69	52.00	0.000	5.101	0.0980	8.4228	4.3644	1.11E-01
70	102.00	0.000	3.671	0.1064	9.2616	4.7990	1.13E-01
71	3.20	0.000	4.836	0.0528	8.1801	4.2386	1.10E-01
72	5.00	0.000	4.622	0.0541	13.8859	7.1951	1.26E-01
73	1.00	0.000	6.243	0.0349	21.1129	10.9399	1.47E-01
74	3.80	0.000	5.959	0.0277	25.1950	13.0550	1.59E-01
75	17.40	0.000	4.845	0.0696	27.3426	14.1678	1.65E-01
76	114.80	0.000	3.181	0.1152	27.9920	14.5043	1.67E-01
77	35.40	0.000	3.648	0.0949	25.3392	13.1297	1.59E-01
78	1.60	0.000	5.575	0.0428	26.0396	13.4926	1.61E-01
79	0.00	0.000	6.496	0.0211	36.5779	15.2736	1.92E-01

80	0.00	0.000	0.475	0.0191	99.0083	16.3838	3.72E-01
81	0.00	0.000	0.026	0.0190	218.8443	18.4205	7.17E-01
82	0.00	0.000	0.006	0.0190	198.9373	17.8715	6.59E-01
83	108.40	0.000	6.228	0.1227	90.7156	16.0758	3.48E-01
84	0.00	0.000	6.046	0.0359	47.2381	15.5745	2.22E-01
85	0.00	0.000	5.085	0.0190	100.5591	16.4169	3.76E-01
86	0.00	0.000	0.000	0.0190	223.3809	18.5452	7.30E-01
87	0.00	0.000	0.000	0.0190	203.3322	18.0011	6.72E-01
88	0.00	0.000	0.000	0.0190	153.7623	17.0054	5.29E-01
89	0.00	0.000	0.000	0.0190	59.7937	15.5962	2.59E-01
90	0.00	0.000	0.000	0.0190	57.9161	15.5930	2.53E-01
91	0.00	0.000	0.000	0.0190	54.2593	15.5867	2.43E-01
92	0.00	0.000	0.000	0.0190	49.1938	15.5779	2.28E-01
93	0.00	0.000	0.000	0.0190	42.9906	15.5672	2.10E-01
94	0.00	0.000	0.000	0.0190	35.0931	15.5480	1.87E-01
95	0.00	0.000	0.000	0.0190	28.7465	14.8952	1.69E-01
96	0.00	0.000	0.000	0.0190	26.8541	13.9147	1.64E-01
97	0.00	0.000	0.000	0.0190	25.0664	12.9884	1.59E-01
98	0.00	0.000	0.000	0.0190	23.3893	12.1194	1.54E-01
99	0.00	0.000	0.000	0.0190	21.8238	11.3082	1.49E-01
100	0.00	0.000	0.000	0.0190	20.3682	10.5540	1.45E-01
101	0.00	0.000	0.000	0.0190	18.8857	9.7858	1.41E-01
102	0.00	0.000	0.000	0.0190	16.4820	8.5403	1.34E-01
103	0.00	0.000	0.000	0.0190	14.2297	7.3733	1.27E-01
104	0.00	0.000	0.000	0.0190	12.2822	6.3641	1.22E-01
105	5.60	0.000	0.307	0.0366	10.5981	5.4915	1.17E-01
106	4.60	0.000	0.454	0.0505	9.1418	4.7369	1.13E-01
107	2.50	0.000	0.585	0.0568	7.8826	4.0845	1.09E-01
108	0.00	0.000	0.577	0.0549	6.7938	3.5202	1.06E-01

109	0.00	0.000	0.563	0.0529	5.8522	3.0324	1.03E-01
110	0.00	0.000	0.550	0.0491	5.1094	2.6475	1.01E-01
111	0.00	0.000	0.537	0.0458	4.5366	2.3507	9.95E-02
112	0.00	0.000	0.458	0.0437	3.9985	2.0719	9.79E-02
113	0.50	0.000	0.561	0.0435	3.4510	1.7881	9.63E-02
114	0.00	0.000	0.505	0.0409	2.9901	1.5494	9.50E-02
115	0.40	0.000	0.541	0.0404	2.6068	1.3507	9.39E-02
116	0.00	0.000	0.486	0.0388	2.2317	1.1564	9.28E-02
117	0.00	0.000	0.477	0.0372	1.9073	0.9883	9.19E-02
118	0.00	0.000	0.444	0.0357	1.6268	0.8430	9.11E-02
119	0.00	0.000	0.457	0.0342	1.3843	0.7173	9.04E-02
120	0.00	0.000	0.454	0.0327	1.1746	0.6086	8.98E-02
121	0.00	0.000	0.447	0.0312	0.9933	0.5147	8.93E-02
122	0.00	0.000	0.440	0.0297	0.8364	0.4334	8.88E-02
123	0.00	0.000	0.434	0.0283	0.7008	0.3631	8.84E-02
124	0.00	0.000	0.428	0.0269	0.5836	0.3024	8.81E-02
125	0.00	0.000	0.422	0.0255	0.4822	0.2499	8.78E-02
126	0.00	0.000	0.416	0.0241	0.3945	0.2044	8.75E-02
127	0.00	0.000	0.411	0.0227	0.3187	0.1652	8.73E-02
128	0.00	0.000	0.405	0.0210	0.2747	0.1424	8.72E-02
129	0.20	0.000	0.448	0.0202	0.2218	0.1149	8.70E-02
130	0.60	0.000	0.313	0.0211	0.1694	0.0878	8.69E-02
131	0.20	0.000	0.211	0.0211	0.1240	0.0643	8.68E-02
132	0.00	0.000	0.173	0.0205	0.0848	0.0440	8.66E-02
133	0.00	0.000	0.213	0.0198	0.0509	0.0264	8.65E-02
134	0.00	0.000	0.198	0.0191	0.0216	0.0112	8.65E-02
135	0.00	0.000	0.036	0.0190	0.0013	0.0006	1.83E-02
136	0.00	0.000	0.005	0.0190	0.0000	0.0000	2.27E-05
137	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0190	0.0000	0.0000	7.56E-08
140	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
143	0.60	0.000	0.079	0.0207	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.143	0.0203	0.0000	0.0000	0.00E+00
145	2.20	0.000	0.221	0.0269	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.148	0.0264	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.226	0.0256	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.222	0.0249	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.220	0.0241	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.218	0.0234	0.0000	0.0000	0.00E+00
151	3.50	0.000	0.268	0.0342	0.0000	0.0000	0.00E+00
152	2.20	0.000	0.314	0.0405	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.261	0.0396	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.287	0.0386	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.285	0.0377	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.293	0.0367	0.0000	0.0000	0.00E+00
157	0.20	0.000	0.350	0.0362	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.296	0.0352	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.294	0.0343	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.292	0.0333	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.264	0.0324	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.288	0.0314	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.286	0.0305	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.284	0.0295	0.0000	0.0000	0.00E+00
165	3.70	0.000	0.339	0.0407	0.0000	0.0000	0.00E+00
166	4.80	0.000	0.339	0.0556	0.0000	0.0000	0.00E+00

167	0.60	0.000	0.343	0.0565	0.0000	0.0000	0.00E+00
168	0.40	0.000	0.344	0.0562	0.0051	0.0026	2.16E-02
169	1.60	0.000	0.342	0.0597	0.0529	0.0274	8.66E-02
170	0.00	0.000	0.282	0.0571	0.0868	0.0450	8.66E-02
171	61.00	0.000	0.339	0.1066	0.1722	0.0892	8.69E-02
172	4.50	0.000	5.224	0.0564	0.1738	0.0900	8.69E-02
173	0.00	0.000	5.091	0.0391	1.1333	0.5872	8.97E-02
174	0.00	0.000	5.302	0.0214	3.2817	1.7005	9.58E-02
175	0.00	0.000	0.542	0.0190	4.9740	2.5773	1.01E-01
176	0.00	0.000	0.000	0.0190	6.2619	3.2447	1.04E-01
177	0.00	0.000	0.000	0.0190	7.2547	3.7591	1.07E-01
178	0.00	0.000	0.000	0.0190	7.9826	4.1363	1.09E-01
179	0.00	0.000	0.000	0.0190	8.4974	4.4030	1.11E-01
180	0.00	0.000	0.000	0.0190	8.8410	4.5811	1.12E-01
181	0.00	0.000	0.000	0.0190	8.8934	4.6082	1.12E-01
182	0.00	0.000	0.000	0.0190	7.8099	4.0468	1.09E-01
183	0.00	0.000	0.000	0.0190	6.7309	3.4877	1.06E-01
184	0.00	0.000	0.000	0.0190	5.7979	3.0042	1.03E-01
185	0.00	0.000	0.000	0.0190	4.9910	2.5861	1.01E-01
186	1.30	0.000	0.138	0.0229	4.2934	2.2246	9.88E-02
187	1.60	0.000	0.425	0.0268	3.6901	1.9121	9.70E-02
188	0.00	0.000	0.490	0.0252	3.1684	1.6417	9.55E-02
189	0.00	0.000	0.529	0.0234	2.7173	1.4080	9.42E-02
190	0.00	0.000	0.505	0.0217	2.3273	1.2059	9.31E-02
191	0.00	0.000	0.476	0.0201	1.9900	1.0311	9.21E-02
192	0.00	0.000	0.277	0.0192	1.6983	0.8800	9.13E-02
193	0.00	0.000	0.046	0.0191	1.4461	0.7493	9.06E-02
194	0.00	0.000	0.011	0.0190	1.2281	0.6363	8.99E-02
195	0.00	0.000	0.004	0.0190	1.0395	0.5386	8.94E-02

196	0.00	0.000	0.000	0.0190	0.8764	0.4541	8.89E-02
197	26.60	0.000	0.602	0.1031	0.7354	0.3811	8.85E-02
198	8.00	0.000	5.020	0.0567	0.9255	0.4796	8.91E-02
199	0.00	0.000	4.349	0.0422	1.4362	0.7442	9.05E-02
200	6.00	0.000	4.332	0.0478	2.2433	1.1624	9.29E-02
201	1.60	0.000	5.064	0.0362	3.3869	1.7550	9.62E-02
202	7.40	0.000	5.272	0.0433	3.9879	2.0664	9.79E-02
203	0.00	0.000	4.925	0.0269	3.4677	1.7968	9.64E-02
204	0.20	0.000	2.270	0.0198	2.9861	1.5473	9.50E-02
205	0.00	0.000	0.170	0.0192	2.5690	1.3311	9.38E-02
206	0.00	0.000	0.057	0.0190	2.1990	1.1394	9.27E-02
207	0.00	0.000	0.000	0.0190	1.8791	0.9737	9.18E-02
208	0.00	0.000	0.000	0.0190	1.6024	0.8303	9.10E-02
209	0.00	0.000	0.000	0.0190	1.3632	0.7063	9.03E-02
210	0.00	0.000	0.000	0.0190	1.1563	0.5992	8.97E-02
211	0.00	0.000	0.000	0.0190	0.9775	0.5065	8.92E-02
212	0.00	0.000	0.000	0.0190	0.8228	0.4263	8.88E-02
213	0.00	0.000	0.000	0.0190	0.6890	0.3570	8.84E-02
214	0.00	0.000	0.000	0.0190	0.5734	0.2971	8.80E-02
215	0.00	0.000	0.000	0.0190	0.4734	0.2453	8.78E-02
216	0.00	0.000	0.000	0.0190	0.3869	0.2005	8.75E-02
217	0.00	0.000	0.000	0.0190	0.3121	0.1617	8.73E-02
218	0.00	0.000	0.000	0.0190	0.2475	0.1282	8.71E-02
219	0.00	0.000	0.000	0.0190	0.1916	0.0993	8.70E-02
220	0.00	0.000	0.000	0.0190	0.1432	0.0742	8.68E-02
221	0.00	0.000	0.000	0.0190	0.1014	0.0525	8.67E-02
222	0.00	0.000	0.000	0.0190	0.0652	0.0338	8.66E-02
223	0.00	0.000	0.000	0.0190	0.0340	0.0176	8.65E-02
224	0.00	0.000	0.000	0.0190	0.0075	0.0037	5.64E-02

225	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	4.60	0.000	0.278	0.0334	0.0000	0.0000	0.00E+00
230	0.60	0.000	0.402	0.0341	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.407	0.0327	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.400	0.0314	0.0000	0.0000	0.00E+00
233	1.00	0.000	0.499	0.0330	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.446	0.0316	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.439	0.0301	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.421	0.0287	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.408	0.0273	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.402	0.0260	0.0000	0.0000	0.00E+00
239	23.20	0.000	0.462	0.1018	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.428	0.0570	0.1465	0.0759	8.68E-02
241	0.00	0.000	0.422	0.0554	0.6613	0.3427	8.83E-02
242	0.00	0.000	0.416	0.0540	1.6808	0.8709	9.12E-02
243	0.00	0.000	0.411	0.0526	2.7569	1.4285	9.43E-02
244	0.00	0.000	0.405	0.0512	2.5883	1.3411	9.39E-02
245	0.20	0.000	0.466	0.0504	2.2157	1.1481	9.28E-02
246	0.80	0.000	0.465	0.0515	1.8935	0.9811	9.19E-02
247	0.40	0.000	0.460	0.0501	1.6437	0.8517	9.11E-02
248	0.00	0.000	0.386	0.0477	1.4930	0.7736	9.07E-02
249	0.00	0.000	0.382	0.0455	1.3525	0.7008	9.03E-02
250	0.00	0.000	0.378	0.0435	1.2114	0.6277	8.99E-02
251	0.00	0.000	0.374	0.0416	1.0801	0.5597	8.95E-02
252	0.00	0.000	0.370	0.0400	0.9594	0.4971	8.92E-02
253	0.00	0.000	0.363	0.0388	0.8229	0.4264	8.88E-02

254	0.00	0.000	0.362	0.0376	0.6892	0.3571	8.84E-02
255	0.00	0.000	0.359	0.0364	0.5735	0.2972	8.81E-02
256	7.20	0.000	0.428	0.0589	0.4735	0.2453	8.78E-02
257	8.40	0.000	0.425	0.0622	0.4665	0.2417	8.77E-02
258	8.50	0.000	6.509	0.0622	0.5645	0.2925	8.80E-02
259	0.00	0.000	6.444	0.0399	1.1434	0.5925	8.97E-02
260	0.40	0.000	5.171	0.0240	2.1773	1.1282	9.27E-02
261	0.00	0.000	1.110	0.0190	2.1834	1.1314	9.27E-02
262	0.00	0.000	0.000	0.0190	1.8893	0.9790	9.18E-02
263	0.00	0.000	0.000	0.0190	1.6113	0.8349	9.10E-02
264	0.00	0.000	0.000	0.0190	1.3709	0.7103	9.03E-02
265	0.40	0.000	0.167	0.0198	1.1630	0.6026	8.97E-02
266	0.00	0.000	0.084	0.0195	0.9832	0.5095	8.92E-02
267	0.00	0.000	0.103	0.0192	0.8277	0.4289	8.88E-02
268	0.00	0.000	0.034	0.0190	0.6933	0.3593	8.84E-02
269	0.00	0.000	0.009	0.0190	0.5771	0.2990	8.81E-02
270	0.00	0.000	0.002	0.0190	0.4766	0.2469	8.78E-02
271	0.00	0.000	0.001	0.0190	0.3897	0.2019	8.75E-02
272	0.00	0.000	0.000	0.0190	0.3145	0.1630	8.73E-02
273	9.40	0.000	0.542	0.0485	0.2495	0.1293	8.71E-02
274	0.20	0.000	0.681	0.0469	0.1933	0.1002	8.70E-02
275	0.00	0.000	0.647	0.0448	0.1448	0.0750	8.68E-02
276	0.00	0.000	0.627	0.0427	0.1027	0.0532	8.67E-02
277	0.00	0.000	0.609	0.0406	0.0665	0.0345	8.66E-02
278	0.00	0.000	0.593	0.0387	0.0359	0.0186	8.65E-02
279	0.00	0.000	0.577	0.0367	0.0101	0.0052	7.65E-02
280	0.00	0.000	0.563	0.0348	0.0005	0.0001	7.22E-03
281	0.00	0.000	0.550	0.0329	0.0004	0.0001	6.43E-03
282	0.00	0.000	0.537	0.0311	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.526	0.0294	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.515	0.0277	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.505	0.0260	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.495	0.0243	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.486	0.0227	0.0000	0.0000	0.00E+00
288	0.20	0.000	0.554	0.0215	0.0000	0.0000	0.00E+00
289	2.10	0.000	0.554	0.0267	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.461	0.0252	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.441	0.0237	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.300	0.0227	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.296	0.0217	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.292	0.0207	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.282	0.0198	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.193	0.0191	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.031	0.0190	0.0000	0.0000	0.00E+00
298	10.80	0.000	0.373	0.0538	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.372	0.0525	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.400	0.0499	0.0356	0.0185	6.49E-02
301	0.00	0.000	0.396	0.0486	0.0729	0.0378	8.66E-02
302	0.00	0.000	0.391	0.0473	0.0406	0.0210	8.65E-02
303	0.00	0.000	0.386	0.0460	0.0127	0.0064	7.59E-02
304	0.00	0.000	0.382	0.0447	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.378	0.0434	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.374	0.0422	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.370	0.0410	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.366	0.0397	0.0000	0.0000	0.00E+00
309	0.20	0.000	0.446	0.0389	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.359	0.0377	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.325	0.0363	0.0144	0.0075	6.48E-02

312	0.00	0.000	0.352	0.0351	0.0040	0.0019	3.85E-02
313	0.00	0.000	0.348	0.0339	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.345	0.0328	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.342	0.0317	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.339	0.0305	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.336	0.0294	0.0000	0.0000	0.00E+00
318	0.20	0.000	0.420	0.0287	0.0000	0.0000	0.00E+00
319	5.20	0.000	0.431	0.0446	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.328	0.0435	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.325	0.0424	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.322	0.0413	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.320	0.0402	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.317	0.0392	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.315	0.0381	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.312	0.0371	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.310	0.0361	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.308	0.0350	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.306	0.0340	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.304	0.0329	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.301	0.0319	0.0034	0.0016	3.50E-02
332	0.00	0.000	0.299	0.0309	0.0000	0.0000	0.00E+00
333	0.70	0.000	0.407	0.0319	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.295	0.0307	0.0021	0.0011	2.16E-02
335	0.00	0.000	0.293	0.0297	0.0029	0.0013	3.10E-02
336	0.00	0.000	0.291	0.0287	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.286	0.0277	0.0015	0.0007	2.06E-02
338	0.00	0.000	0.283	0.0268	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.285	0.0258	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.284	0.0249	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.282	0.0239	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.281	0.0230	0.0000	0.0000	0.00E+00
343	0.00	0.000	0.279	0.0221	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.277	0.0211	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.276	0.0202	0.0000	0.0000	0.00E+00
346	21.40	0.000	0.392	0.0902	0.0008	0.0004	2.16E-02
347	6.20	0.000	4.725	0.0599	0.0002	0.0000	2.44E-03
348	23.00	0.000	4.156	0.0964	0.2160	0.1119	6.54E-02
349	18.00	0.000	5.567	0.0785	0.5274	0.2733	8.79E-02
350	0.60	0.000	5.536	0.0446	0.4336	0.2247	8.76E-02
351	0.00	0.000	6.662	0.0223	0.8126	0.4211	8.87E-02
352	0.00	0.000	1.003	0.0190	2.3221	1.2032	9.31E-02
353	0.00	0.000	0.000	0.0190	3.8430	1.9913	9.75E-02
354	0.00	0.000	0.000	0.0190	5.0296	2.6061	1.01E-01
355	0.80	0.000	0.664	0.0195	5.9413	3.0785	1.04E-01
356	0.00	0.000	0.075	0.0192	6.6285	3.4346	1.05E-01
357	0.00	0.000	0.043	0.0191	6.9650	3.6090	1.06E-01
358	0.00	0.000	0.013	0.0190	6.1226	3.1725	1.04E-01
359	0.00	0.000	0.003	0.0190	5.2719	2.7317	1.02E-01
360	4.00	0.000	0.626	0.0303	4.5362	2.3505	9.95E-02
361	0.00	0.000	0.731	0.0278	3.9001	2.0209	9.76E-02
362	0.00	0.000	0.822	0.0251	3.3500	1.7358	9.60E-02
363	3.90	0.000	0.888	0.0351	2.8744	1.4894	9.47E-02
364	0.20	0.000	0.870	0.0329	2.4631	1.2763	9.35E-02
365	0.00	0.000	0.693	0.0306	2.1074	1.0920	9.25E-02

* = Frozen (air or soil)

Annual Totals for Year 21			
	mm*	cubic meters	percent
Precipitation	1,089.20	10,892.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	352.636	3,526.4	32.38
Drainage Collected from Layer 2	823.7210	8,237.2	75.63
Percolation/Leakage through Layer 3	29.898353	299.0	2.74
Average Head on Top of Layer 3	7.5443 (cm)	---	---
Change in Water Storage	-117.0550	-1,170.5	-10.75
Soil Water at Start of Year	978.9900	9,789.9	89.88
Soil Water at End of Year	861.9350	8,619.4	79.13
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 22

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			4.00	0.000	0.846	0.0411		1.7999	0.9326	9.16E-02
2			0.00	0.000	0.703	0.0387		1.5339	0.7948	9.08E-02
3			0.50	0.000	0.752	0.0379		1.3040	0.6757	9.02E-02
4			0.00	0.000	0.633	0.0358		1.1051	0.5726	8.96E-02
5			27.50	0.000	0.732	0.0773		0.9369	0.4855	8.91E-02
6	*Note: head c		50.20	0.000	3.604	0.0858		0.9999	0.5181	8.93E-02
7			81.00	0.000	4.420	0.1024		0.8717	0.4517	8.89E-02
8			10.00	0.000	4.290	0.0675		0.7313	0.3789	8.85E-02
9			0.60	0.000	4.443	0.0498		2.4601	1.2747	9.35E-02
10			0.00	0.000	6.203	0.0291		6.5094	3.3729	1.05E-01
11			2.00	0.000	3.827	0.0222		9.8707	5.1146	1.15E-01
12			13.00	0.000	4.151	0.0517		12.2429	6.3437	1.22E-01
13			5.40	0.000	5.442	0.0515		13.8733	7.1886	1.26E-01
14			0.00	0.000	4.172	0.0376		14.9242	7.7331	1.29E-01
15			14.00	0.000	3.924	0.0712		15.5384	8.0514	1.31E-01
16			40.00	0.000	6.265	0.0892		15.8432	8.2093	1.32E-01
17			2.80	0.000	6.275	0.0496		14.5442	7.5362	1.28E-01
18			0.00	0.000	5.855	0.0287		13.4019	6.9443	1.25E-01
19			0.00	0.000	2.899	0.0191		14.3144	7.4172	1.28E-01
20			0.00	0.000	0.018	0.0190		15.0213	7.7834	1.30E-01
21			0.00	0.000	0.005	0.0190		15.3860	7.9724	1.31E-01

22	0.00	0.000	0.001	0.0190	15.4937	8.0282	1.31E-01
23	0.00	0.000	0.000	0.0190	15.4096	7.9846	1.31E-01
24	54.80	0.000	2.176	0.0982	15.1966	7.8743	1.30E-01
25	0.60	0.000	5.562	0.0350	14.1892	7.3523	1.27E-01
26	6.20	0.000	6.554	0.0338	12.9480	6.7091	1.24E-01
27	0.00	0.000	3.537	0.0213	13.5091	6.9999	1.25E-01
28	0.00	0.000	0.515	0.0196	13.9187	7.2121	1.26E-01
29	0.00	0.000	0.129	0.0191	14.1176	7.3152	1.27E-01
30	0.00	0.000	0.032	0.0190	14.1275	7.3203	1.27E-01
31	0.20	0.000	0.210	0.0190	13.9952	7.2518	1.27E-01
32	10.00	0.000	1.482	0.0474	13.7578	7.1288	1.26E-01
33	0.00	0.000	4.754	0.0315	13.4441	6.9662	1.25E-01
34	0.00	0.000	1.568	0.0263	13.0953	6.7854	1.24E-01
35	0.00	0.000	1.322	0.0219	12.0435	6.2405	1.21E-01
36	1.00	0.000	0.908	0.0222	10.3917	5.3846	1.16E-01
37	0.20	0.000	0.617	0.0207	8.9700	4.6479	1.12E-01
38	0.20	0.000	0.380	0.0201	7.7360	4.0085	1.09E-01
39	0.00	0.000	0.184	0.0195	6.6670	3.4546	1.06E-01
40	0.20	0.000	0.219	0.0194	5.7426	2.9756	1.03E-01
41	0.00	0.000	0.084	0.0192	4.9432	2.5614	1.01E-01
42	0.00	0.000	0.035	0.0190	4.2520	2.2032	9.86E-02
43	0.00	0.000	0.010	0.0190	3.6544	1.8935	9.69E-02
44	0.00	0.000	0.003	0.0190	3.1375	1.6257	9.54E-02
45	0.00	0.000	0.001	0.0190	2.6906	1.3942	9.41E-02
46	23.80	0.000	0.618	0.0963	2.3042	1.1939	9.30E-02
47	5.00	0.000	3.499	0.0582	1.9700	1.0208	9.21E-02
48	20.40	0.000	6.367	0.0845	1.8644	0.9661	9.18E-02
49	0.00	0.000	6.526	0.0421	1.8631	0.9654	9.18E-02
50	0.00	0.000	6.104	0.0218	1.8693	0.9686	9.18E-02

51	1.80	0.000	1.551	0.0219	3.0228	1.5663	9.51E-02
52	0.00	0.000	0.686	0.0196	4.1645	2.1579	9.84E-02
53	1.80	0.000	1.051	0.0221	5.0904	2.6376	1.01E-01
54	8.00	0.000	2.662	0.0399	5.6278	2.9161	1.03E-01
55	6.00	0.000	5.338	0.0421	4.9570	2.5685	1.01E-01
56	1.00	0.000	1.993	0.0388	4.2640	2.2094	9.87E-02
57	0.00	0.000	1.544	0.0336	3.6647	1.8989	9.70E-02
58	0.00	0.000	1.338	0.0292	3.1464	1.6304	9.55E-02
59	2.60	0.000	1.230	0.0338	2.6983	1.3982	9.42E-02
60	0.20	0.000	1.115	0.0307	2.3108	1.1974	9.31E-02
61	0.00	0.000	0.968	0.0275	1.9758	1.0238	9.21E-02
62	0.80	0.000	0.968	0.0269	1.6860	0.8736	9.13E-02
63	9.00	0.000	0.942	0.0538	1.4355	0.7438	9.05E-02
64	0.00	0.000	5.556	0.0353	1.2189	0.6316	8.99E-02
65	0.40	0.000	0.895	0.0336	1.0315	0.5345	8.94E-02
66	0.00	0.000	0.787	0.0310	0.8695	0.4506	8.89E-02
67	12.60	0.000	0.820	0.0702	0.7295	0.3780	8.85E-02
68	1.00	0.000	4.802	0.0470	0.6083	0.3152	8.82E-02
69	28.40	0.000	6.538	0.0892	0.7716	0.3998	8.86E-02
70	0.00	0.000	3.845	0.0394	1.2522	0.6488	9.00E-02
71	0.00	0.000	6.132	0.0190	1.3128	0.6803	9.02E-02
72	0.00	0.000	0.000	0.0190	2.3881	1.2374	9.33E-02
73	0.00	0.000	0.000	0.0190	3.5992	1.8650	9.68E-02
74	0.00	0.000	0.000	0.0190	4.5869	2.3768	9.96E-02
75	12.50	0.000	1.486	0.0557	4.5779	2.3721	9.96E-02
76	0.00	0.000	5.503	0.0374	3.9361	2.0395	9.77E-02
77	0.00	0.000	1.620	0.0320	3.3812	1.7520	9.61E-02
78	46.00	0.000	1.434	0.1011	2.9462	1.5266	9.49E-02
79	13.00	0.000	5.409	0.0706	2.6504	1.3733	9.40E-02

80	20.50	0.000	5.969	0.0892	2.8035	1.4526	9.45E-02
81	2.20	0.000	6.474	0.0449	2.8436	1.4734	9.46E-02
82	42.80	0.000	5.675	0.0976	2.8606	1.4822	9.46E-02
83	4.60	0.000	4.446	0.0575	3.2044	1.6604	9.56E-02
84	0.00	0.000	6.705	0.0349	3.6315	1.8817	9.69E-02
85	0.00	0.000	4.772	0.0190	5.9790	3.0981	1.04E-01
86	0.00	0.000	0.000	0.0190	7.8240	4.0541	1.09E-01
87	0.00	0.000	0.000	0.0190	9.1714	4.7522	1.13E-01
88	2.20	0.000	1.232	0.0222	10.1275	5.2476	1.16E-01
89	0.00	0.000	0.735	0.0198	10.7759	5.5836	1.17E-01
90	0.00	0.000	0.175	0.0192	11.1829	5.7945	1.19E-01
91	0.00	0.000	0.044	0.0190	11.4012	5.9076	1.19E-01
92	0.00	0.000	0.011	0.0190	11.4726	5.9446	1.19E-01
93	1.40	0.000	0.203	0.0230	11.4307	5.9229	1.19E-01
94	0.00	0.000	0.572	0.0211	11.2491	5.8288	1.19E-01
95	0.00	0.000	0.482	0.0195	9.9906	5.1767	1.15E-01
96	0.00	0.000	0.110	0.0191	8.6165	4.4647	1.11E-01
97	0.00	0.000	0.027	0.0190	7.4284	3.8491	1.08E-01
98	0.00	0.000	0.007	0.0190	6.4010	3.3167	1.05E-01
99	0.00	0.000	0.002	0.0190	5.5126	2.8564	1.02E-01
100	0.00	0.000	0.000	0.0190	4.7443	2.4583	1.00E-01
101	0.00	0.000	0.000	0.0190	4.0800	2.1141	9.81E-02
102	0.00	0.000	0.000	0.0190	3.5056	1.8165	9.65E-02
103	0.00	0.000	0.000	0.0190	3.0089	1.5591	9.51E-02
104	0.00	0.000	0.000	0.0190	2.5794	1.3365	9.38E-02
105	0.30	0.000	0.120	0.0196	2.2080	1.1441	9.28E-02
106	0.00	0.000	0.054	0.0194	1.8869	0.9777	9.18E-02
107	0.00	0.000	0.099	0.0191	1.6092	0.8338	9.10E-02
108	0.00	0.000	0.019	0.0190	1.3690	0.7094	9.03E-02

109	0.00	0.000	0.005	0.0190	1.1614	0.6018	8.97E-02
110	0.00	0.000	0.001	0.0190	0.9818	0.5087	8.92E-02
111	1.20	0.000	0.113	0.0226	0.8266	0.4283	8.88E-02
112	1.00	0.000	0.295	0.0250	0.6923	0.3587	8.84E-02
113	0.60	0.000	0.290	0.0260	0.5762	0.2986	8.81E-02
114	0.00	0.000	0.353	0.0248	0.4758	0.2465	8.78E-02
115	0.00	0.000	0.346	0.0237	0.3890	0.2016	8.75E-02
116	0.00	0.000	0.339	0.0225	0.3139	0.1627	8.73E-02
117	0.00	0.000	0.333	0.0214	0.2490	0.1290	8.71E-02
118	0.00	0.000	0.321	0.0204	0.1929	0.1000	8.70E-02
119	0.00	0.000	0.341	0.0192	0.1444	0.0748	8.68E-02
120	0.00	0.000	0.053	0.0191	0.1024	0.0531	8.67E-02
121	0.00	0.000	0.013	0.0190	0.0661	0.0343	8.66E-02
122	0.00	0.000	0.004	0.0190	0.0347	0.0180	8.65E-02
123	0.20	0.000	0.102	0.0193	0.0080	0.0040	5.87E-02
124	0.00	0.000	0.037	0.0192	0.0000	0.0000	0.00E+00
125	1.20	0.000	0.142	0.0227	0.0000	0.0000	0.00E+00
126	2.00	0.000	0.256	0.0285	0.0000	0.0000	0.00E+00
127	0.20	0.000	0.350	0.0280	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.280	0.0271	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.338	0.0260	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.333	0.0249	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.329	0.0238	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.325	0.0227	0.0000	0.0000	0.00E+00
133	4.00	0.000	0.391	0.0347	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.345	0.0336	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.327	0.0325	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.315	0.0314	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.341	0.0303	0.0000	0.0000	0.00E+00

138	20.40	0.000	0.409	0.0969	0.0000	0.0000	0.00E+00
139	105.20	0.000	0.438	0.1165	0.1212	0.0628	8.67E-02
140	5.00	0.000	5.508	0.0565	0.1226	0.0635	8.68E-02
141	0.00	0.000	4.730	0.0400	2.1377	1.1077	9.26E-02
142	0.00	0.000	5.588	0.0214	5.6131	2.9085	1.03E-01
143	2.60	0.000	2.161	0.0223	8.1572	4.2267	1.10E-01
144	0.00	0.000	0.662	0.0201	10.0032	5.1832	1.15E-01
145	0.00	0.000	0.259	0.0192	11.3196	5.8654	1.19E-01
146	0.00	0.000	0.042	0.0190	12.2074	6.3254	1.22E-01
147	0.00	0.000	0.011	0.0190	12.7640	6.6138	1.23E-01
148	0.00	0.000	0.003	0.0190	13.0654	6.7700	1.24E-01
149	0.00	0.000	0.001	0.0190	13.1710	6.8247	1.24E-01
150	0.00	0.000	0.000	0.0190	13.1276	6.8022	1.24E-01
151	0.00	0.000	0.000	0.0190	12.9719	6.7215	1.24E-01
152	0.00	0.000	0.000	0.0190	12.7329	6.5977	1.23E-01
153	0.50	0.000	0.163	0.0201	12.4105	6.4306	1.22E-01
154	0.00	0.000	0.144	0.0196	11.0462	5.7237	1.18E-01
155	0.00	0.000	0.135	0.0192	9.5293	4.9377	1.14E-01
156	0.00	0.000	0.044	0.0190	8.2177	4.2581	1.10E-01
157	0.00	0.000	0.011	0.0190	7.0835	3.6704	1.07E-01
158	0.00	0.000	0.003	0.0190	6.1027	3.1622	1.04E-01
159	0.00	0.000	0.001	0.0190	5.2547	2.7228	1.02E-01
160	0.00	0.000	0.000	0.0190	4.5213	2.3428	9.94E-02
161	0.00	0.000	0.000	0.0190	3.8872	2.0142	9.76E-02
162	0.00	0.000	0.000	0.0190	3.3389	1.7301	9.60E-02
163	0.30	0.000	0.125	0.0196	2.8647	1.4844	9.46E-02
164	0.00	0.000	0.053	0.0194	2.4547	1.2719	9.35E-02
165	0.00	0.000	0.099	0.0191	2.1002	1.0882	9.24E-02
166	0.00	0.000	0.018	0.0190	1.7936	0.9294	9.16E-02

167	0.00	0.000	0.004	0.0190	1.5285	0.7920	9.08E-02
168	0.00	0.000	0.001	0.0190	1.2993	0.6733	9.01E-02
169	0.00	0.000	0.000	0.0190	1.1011	0.5705	8.96E-02
170	0.00	0.000	0.000	0.0190	0.9297	0.4817	8.91E-02
171	0.00	0.000	0.000	0.0190	0.7815	0.4049	8.86E-02
172	0.00	0.000	0.000	0.0190	0.6533	0.3385	8.83E-02
173	0.00	0.000	0.000	0.0190	0.5425	0.2811	8.80E-02
174	0.00	0.000	0.000	0.0190	0.4467	0.2314	8.77E-02
175	0.00	0.000	0.000	0.0190	0.3638	0.1885	8.74E-02
176	0.00	0.000	0.000	0.0190	0.2922	0.1514	8.72E-02
177	0.00	0.000	0.000	0.0190	0.2302	0.1193	8.71E-02
178	0.00	0.000	0.000	0.0190	0.1766	0.0915	8.69E-02
179	0.00	0.000	0.000	0.0190	0.1303	0.0675	8.68E-02
180	0.50	0.000	0.109	0.0203	0.0902	0.0468	8.67E-02
181	0.00	0.000	0.184	0.0197	0.0556	0.0288	8.66E-02
182	0.00	0.000	0.123	0.0193	0.0256	0.0133	8.65E-02
183	1.40	0.000	0.163	0.0234	0.0029	0.0013	3.11E-02
184	0.20	0.000	0.258	0.0232	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.283	0.0223	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.289	0.0213	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.276	0.0204	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.269	0.0195	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.115	0.0191	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.027	0.0190	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.004	0.0190	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
219	9.60	0.000	0.276	0.0501	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.273	0.0492	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.297	0.0482	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.295	0.0472	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.293	0.0461	0.0004	0.0000	5.21E-03
224	0.00	0.000	0.291	0.0449	0.0055	0.0027	5.61E-02

225	0.00	0.000	0.289	0.0437	0.0113	0.0058	8.64E-02
226	0.00	0.000	0.288	0.0428	0.0004	0.0001	5.51E-03
227	0.00	0.000	0.286	0.0418	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.284	0.0409	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.282	0.0399	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.281	0.0390	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.279	0.0381	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.277	0.0372	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.276	0.0362	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.274	0.0353	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.272	0.0344	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.271	0.0335	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.269	0.0326	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.268	0.0317	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.266	0.0308	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.265	0.0299	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.264	0.0291	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.262	0.0282	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.261	0.0273	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.259	0.0265	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.258	0.0256	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.257	0.0247	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.255	0.0239	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.254	0.0230	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.253	0.0222	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.252	0.0214	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.250	0.0205	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.249	0.0197	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.210	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.60	0.000	0.099	0.0207	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.099	0.0203	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.118	0.0199	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.150	0.0194	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.069	0.0192	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.052	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.009	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.40	0.000	0.100	0.0200	0.0000	0.0000	0.00E+00
276	0.60	0.000	0.115	0.0216	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.097	0.0213	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.110	0.0209	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.143	0.0205	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.149	0.0200	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.148	0.0195	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.106	0.0191	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.024	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.50	0.000	0.102	0.0203	0.0000	0.0000	0.00E+00
289	17.00	0.000	0.260	0.0761	0.0000	0.0000	0.00E+00
290	23.80	0.000	0.291	0.0913	0.0000	0.0000	0.00E+00
291	21.60	0.000	0.297	0.0931	0.0000	0.0000	0.00E+00
292	25.00	0.000	3.981	0.0934	0.0000	0.0000	0.00E+00
293	51.40	0.000	5.964	0.0949	0.0000	0.0000	0.00E+00
294	0.40	0.000	4.402	0.0379	0.0714	0.0370	4.34E-02
295	8.00	0.000	5.659	0.0457	1.1615	0.6018	8.97E-02
296	0.00	0.000	6.299	0.0247	4.6252	2.3966	9.97E-02
297	12.80	0.000	6.003	0.0474	7.5320	3.9028	1.08E-01
298	0.00	0.000	4.754	0.0315	9.6377	4.9939	1.14E-01
299	0.00	0.000	3.355	0.0203	11.1296	5.7669	1.18E-01
300	0.00	0.000	0.320	0.0193	12.1482	6.2947	1.21E-01
301	0.00	0.000	0.079	0.0190	12.8017	6.6333	1.23E-01
302	0.00	0.000	0.000	0.0190	13.1740	6.8262	1.24E-01
303	0.00	0.000	0.000	0.0190	13.3306	6.9074	1.25E-01
304	0.70	0.000	0.264	0.0205	13.3228	6.9033	1.25E-01
305	2.80	0.000	0.764	0.0272	13.1910	6.8350	1.24E-01
306	0.00	0.000	0.597	0.0252	12.9669	6.7189	1.24E-01
307	0.00	0.000	0.809	0.0226	12.6764	6.5684	1.23E-01
308	0.00	0.000	0.709	0.0202	11.8794	6.1554	1.21E-01
309	0.00	0.000	0.295	0.0192	10.2498	5.3110	1.16E-01
310	0.00	0.000	0.047	0.0191	8.8407	4.5809	1.12E-01
311	0.00	0.000	0.012	0.0190	7.6222	3.9495	1.08E-01

312	0.00	0.000	0.004	0.0190	6.5686	3.4036	1.05E-01
313	0.60	0.000	0.155	0.0205	5.6575	2.9315	1.03E-01
314	9.00	0.000	0.594	0.0485	4.8697	2.5233	1.00E-01
315	0.00	0.000	0.657	0.0463	4.1884	2.1703	9.85E-02
316	0.00	0.000	0.672	0.0441	3.5993	1.8650	9.68E-02
317	0.00	0.000	0.648	0.0419	3.0900	1.6011	9.53E-02
318	4.00	0.000	0.738	0.0528	2.6495	1.3729	9.40E-02
319	1.20	0.000	0.718	0.0544	2.2686	1.1755	9.29E-02
320	0.00	0.000	0.609	0.0520	1.9466	1.0086	9.20E-02
321	0.00	0.000	0.593	0.0500	1.6812	0.8711	9.12E-02
322	0.00	0.000	0.577	0.0481	1.4313	0.7416	9.05E-02
323	0.00	0.000	0.563	0.0462	1.2152	0.6297	8.99E-02
324	9.90	0.000	0.643	0.0760	1.0284	0.5329	8.94E-02
325	3.00	0.000	0.631	0.0643	0.9494	0.4919	8.91E-02
326	0.80	0.000	5.063	0.0464	1.2278	0.6362	8.99E-02
327	0.20	0.000	0.608	0.0439	2.0616	1.0682	9.23E-02
328	0.00	0.000	0.515	0.0413	2.2439	1.1627	9.29E-02
329	0.00	0.000	0.505	0.0396	1.9589	1.0150	9.20E-02
330	0.00	0.000	0.439	0.0381	1.6715	0.8661	9.12E-02
331	0.00	0.000	0.486	0.0365	1.4229	0.7373	9.05E-02
332	0.00	0.000	0.477	0.0349	1.2080	0.6259	8.99E-02
333	0.00	0.000	0.469	0.0333	1.0221	0.5296	8.93E-02
334	26.00	0.000	0.558	0.0900	0.8614	0.4463	8.89E-02
335	0.00	0.000	5.844	0.0427	0.7224	0.3743	8.85E-02
336	0.00	0.000	6.376	0.0214	0.8826	0.4573	8.89E-02
337	0.00	0.000	0.546	0.0190	2.0872	1.0815	9.24E-02
338	10.60	0.000	4.474	0.0394	3.2540	1.6861	9.58E-02
339	0.20	0.000	3.774	0.0275	4.0012	2.0733	9.79E-02
340	0.00	0.000	2.075	0.0206	3.5383	1.8334	9.66E-02

341	0.00	0.000	0.358	0.0194	3.0372	1.5737	9.51E-02
342	0.00	0.000	0.119	0.0190	2.6038	1.3492	9.39E-02
343	0.00	0.000	0.000	0.0190	2.2291	1.1550	9.28E-02
344	0.00	0.000	0.000	0.0190	1.9051	0.9872	9.19E-02
345	0.00	0.000	0.000	0.0190	1.6249	0.8420	9.11E-02
346	5.80	0.000	0.518	0.0366	1.3827	0.7164	9.04E-02
347	3.50	0.000	0.725	0.0459	1.1732	0.6079	8.98E-02
348	0.00	0.000	0.797	0.0432	0.9920	0.5140	8.93E-02
349	0.00	0.000	0.801	0.0405	0.8354	0.4329	8.88E-02
350	0.00	0.000	0.762	0.0380	0.6999	0.3627	8.84E-02
351	0.00	0.000	0.730	0.0356	0.5828	0.3020	8.81E-02
352	0.00	0.000	0.706	0.0332	0.4815	0.2495	8.78E-02
353	0.00	0.000	0.679	0.0309	0.3939	0.2041	8.75E-02
354	0.00	0.000	0.669	0.0287	0.3182	0.1649	8.73E-02
355	0.00	0.000	0.647	0.0266	0.2527	0.1310	8.71E-02
356	0.00	0.000	0.627	0.0245	0.1961	0.1016	8.70E-02
357	0.00	0.000	0.609	0.0224	0.1471	0.0762	8.68E-02
358	0.00	0.000	0.593	0.0205	0.1048	0.0543	8.67E-02
359	0.00	0.000	0.437	0.0190	0.0682	0.0353	8.66E-02
360	0.00	0.000	0.000	0.0190	0.0365	0.0189	8.65E-02
361	0.00	0.000	0.000	0.0190	0.0092	0.0047	6.39E-02
362	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
363	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
364	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
365	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 22			
	mm*	cubic meters	percent
Precipitation	989.20	9,892.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	362.820	3,628.2	36.68
Drainage Collected from Layer 2	613.0137	6,130.1	61.97
Percolation/Leakage through Layer 3	23.801639	238.0	2.41
Average Head on Top of Layer 3	3.2413 (cm)	---	---
Change in Water Storage	-10.4354	-104.4	-1.05
Soil Water at Start of Year	861.9350	8,619.4	87.13
Soil Water at End of Year	851.4996	8,515.0	86.08
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 23

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone				
	Air	Soil				Water (cm/cm)	Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)	
1				0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
2				0.60	0.000	0.115	0.0206	0.0000	0.0000	0.00E+00
3				6.50	0.000	0.274	0.0414	0.0000	0.0000	0.00E+00
4				0.00	0.000	0.386	0.0401	0.0000	0.0000	0.00E+00
5				31.50	0.000	0.521	0.0911	0.0000	0.0000	0.00E+00
6	*Note: head c			25.00	0.000	5.980	0.0965	0.0000	0.0000	0.00E+00
7				5.00	0.000	6.099	0.0497	0.3502	0.1815	8.74E-02
8				0.20	0.000	4.761	0.0341	0.6600	0.3420	8.83E-02
9				0.00	0.000	3.471	0.0202	2.2269	1.1539	9.28E-02
10				0.00	0.000	0.270	0.0193	3.7174	1.9262	9.71E-02
11				1.80	0.000	1.002	0.0220	5.0303	2.6065	1.01E-01
12				0.00	0.000	0.700	0.0196	6.0465	3.1331	1.04E-01
13				0.00	0.000	0.142	0.0192	6.8120	3.5297	1.06E-01
14				0.00	0.000	0.034	0.0190	7.3737	3.8208	1.08E-01
15				0.00	0.000	0.009	0.0190	7.5288	3.9011	1.08E-01
16				30.00	0.000	1.548	0.0970	6.5727	3.4057	1.05E-01
17				1.00	0.000	4.252	0.0495	5.6962	2.9516	1.03E-01
18				3.60	0.000	5.342	0.0407	5.3014	2.7470	1.02E-01
19				0.00	0.000	5.324	0.0229	5.5325	2.8667	1.02E-01
20				0.00	0.000	0.881	0.0194	6.2324	3.2294	1.04E-01
21				0.00	0.000	0.083	0.0191	6.6912	3.4671	1.06E-01

22	0.00	0.000	0.021	0.0190	6.0160	3.1172	1.04E-01
23	0.00	0.000	0.005	0.0190	5.1796	2.6839	1.01E-01
24	4.00	0.000	0.636	0.0302	4.4565	2.3092	9.92E-02
25	0.40	0.000	0.872	0.0286	3.8311	1.9851	9.74E-02
26	24.00	0.000	1.055	0.0918	3.2904	1.7049	9.59E-02
27	1.50	0.000	4.962	0.0469	2.8228	1.4627	9.45E-02
28	0.00	0.000	6.182	0.0263	2.6687	1.3828	9.41E-02
29	0.00	0.000	2.166	0.0191	3.4886	1.8076	9.64E-02
30	1.60	0.000	0.644	0.0223	4.4808	2.3217	9.93E-02
31	0.00	0.000	0.693	0.0199	4.5493	2.3573	9.95E-02
32	0.00	0.000	0.213	0.0192	3.9114	2.0267	9.77E-02
33	0.00	0.000	0.053	0.0191	3.3598	1.7409	9.61E-02
34	0.00	0.000	0.013	0.0190	2.8828	1.4938	9.47E-02
35	7.50	0.000	0.519	0.0423	2.4704	1.2801	9.35E-02
36	20.00	0.000	0.974	0.0971	2.1137	1.0953	9.25E-02
37	2.20	0.000	5.491	0.0413	1.8053	0.9355	9.16E-02
38	1.50	0.000	5.762	0.0271	1.7804	0.9225	9.15E-02
39	0.20	0.000	2.344	0.0200	2.7306	1.4149	9.43E-02
40	1.20	0.000	0.707	0.0216	3.8336	1.9864	9.74E-02
41	0.00	0.000	0.595	0.0196	4.4343	2.2977	9.92E-02
42	0.00	0.000	0.148	0.0191	3.8817	2.0113	9.76E-02
43	0.00	0.000	0.029	0.0190	3.3341	1.7276	9.60E-02
44	0.00	0.000	0.007	0.0190	2.8606	1.4822	9.46E-02
45	0.00	0.000	0.002	0.0190	2.4512	1.2701	9.35E-02
46	0.00	0.000	0.001	0.0190	2.0971	1.0866	9.24E-02
47	0.00	0.000	0.000	0.0190	1.7910	0.9280	9.16E-02
48	0.00	0.000	0.000	0.0190	1.5262	0.7908	9.08E-02
49	0.00	0.000	0.000	0.0190	1.2973	0.6722	9.01E-02
50	0.00	0.000	0.000	0.0190	1.0994	0.5696	8.96E-02

51	9.80	0.000	0.564	0.0498	0.9282	0.4810	8.91E-02
52	73.30	0.000	0.779	0.1101	0.8683	0.4499	8.89E-02
53	10.80	0.000	5.461	0.0633	0.8104	0.4199	8.87E-02
54	76.00	0.000	3.814	0.1061	1.4311	0.7415	9.05E-02
55	38.00	0.000	3.086	0.1011	1.2899	0.6684	9.01E-02
56	165.00	0.000	4.929	0.1359	1.9442	1.0074	9.20E-02
57	6.00	0.000	5.756	0.0528	3.8654	2.0029	9.75E-02
58	2.00	0.000	6.476	0.0378	17.9019	9.2760	1.38E-01
59	158.00	0.000	3.264	0.1377	28.0213	14.5195	1.67E-01
60	169.00	0.000	3.335	0.1362	29.1939	14.8195	1.70E-01
61	39.20	0.000	5.421	0.0887	430.7393	25.6827	1.33E+00
62	0.90	0.000	4.645	0.0533	548.9766	28.8504	1.67E+00
63	0.00	0.000	6.159	0.0327	524.8134	28.0398	1.60E+00
64	0.00	0.000	4.101	0.0191	494.0594	27.0156	1.51E+00
65	0.00	0.000	0.012	0.0190	464.4566	26.0387	1.42E+00
66	5.20	0.000	2.327	0.0286	435.9526	25.1069	1.34E+00
67	9.80	0.000	2.194	0.0539	408.4975	24.2183	1.26E+00
68	31.80	0.000	4.916	0.0984	382.1121	23.3734	1.19E+00
69	0.00	0.000	5.349	0.0447	374.4046	23.1281	1.16E+00
70	1.30	0.000	5.876	0.0294	356.5748	22.5153	1.11E+00
71	0.00	0.000	3.000	0.0194	332.0649	21.7135	1.04E+00
72	0.00	0.000	0.092	0.0191	308.4217	21.0020	9.75E-01
73	0.00	0.000	0.023	0.0190	285.5848	20.3244	9.09E-01
74	0.00	0.000	0.006	0.0190	263.5162	19.6805	8.45E-01
75	0.00	0.000	0.001	0.0190	242.1781	19.0703	7.84E-01
76	0.00	0.000	0.000	0.0190	221.5328	18.4943	7.24E-01
77	0.00	0.000	0.000	0.0190	201.5420	17.9535	6.67E-01
78	0.00	0.000	0.000	0.0190	122.5661	16.5351	4.39E-01
79	13.30	0.000	0.856	0.0605	59.8604	15.5963	2.59E-01

80	0.30	0.000	1.039	0.0566	57.7296	15.5927	2.53E-01
81	4.80	0.000	1.048	0.0652	53.0474	15.5846	2.39E-01
82	0.00	0.000	3.514	0.0496	47.1595	15.5744	2.22E-01
83	6.00	0.000	0.979	0.0603	40.6539	15.5632	2.03E-01
84	27.00	0.000	4.495	0.0911	31.9628	15.3555	1.78E-01
85	12.80	0.000	3.107	0.0695	27.0539	14.0182	1.64E-01
86	92.00	0.000	4.426	0.1087	23.6530	12.2560	1.55E-01
87	1.60	0.000	4.482	0.0439	20.4832	10.6135	1.45E-01
88	0.20	0.000	5.950	0.0248	21.0170	10.8901	1.47E-01
89	0.00	0.000	1.662	0.0192	23.8412	12.3535	1.55E-01
90	0.00	0.000	0.053	0.0191	25.3716	13.1465	1.59E-01
91	0.00	0.000	0.015	0.0190	26.0220	13.4836	1.61E-01
92	0.20	0.000	0.202	0.0190	26.0655	13.5061	1.61E-01
93	8.60	0.000	2.331	0.0399	25.6909	13.3120	1.60E-01
94	0.00	0.000	4.531	0.0248	25.0332	12.9712	1.58E-01
95	0.00	0.000	1.574	0.0195	24.1892	12.5339	1.56E-01
96	0.40	0.000	0.304	0.0199	23.2292	12.0364	1.53E-01
97	0.00	0.000	0.156	0.0193	22.2041	11.5052	1.50E-01
98	3.40	0.000	0.549	0.0289	21.1504	10.9593	1.47E-01
99	0.00	0.000	0.632	0.0267	20.0947	10.4122	1.44E-01
100	0.00	0.000	0.672	0.0245	19.0554	9.8737	1.41E-01
101	0.00	0.000	0.538	0.0227	18.0456	9.3505	1.38E-01
102	0.00	0.000	0.719	0.0203	17.0739	8.8470	1.36E-01
103	0.40	0.000	0.445	0.0202	15.7726	8.1727	1.32E-01
104	0.00	0.000	0.123	0.0197	13.6335	7.0643	1.26E-01
105	0.00	0.000	0.189	0.0191	11.7666	6.0970	1.20E-01
106	0.00	0.000	0.027	0.0190	10.1523	5.2605	1.16E-01
107	0.00	0.000	0.007	0.0190	8.7564	4.5372	1.12E-01
108	0.00	0.000	0.002	0.0190	7.5493	3.9117	1.08E-01

109	0.00	0.000	0.000	0.0190	6.5055	3.3709	1.05E-01
110	0.00	0.000	0.000	0.0190	5.6030	2.9032	1.03E-01
111	0.00	0.000	0.000	0.0190	4.8225	2.4988	1.00E-01
112	0.00	0.000	0.000	0.0190	4.1476	2.1491	9.83E-02
113	0.00	0.000	0.000	0.0190	3.5641	1.8468	9.67E-02
114	0.00	0.000	0.000	0.0190	3.0595	1.5853	9.52E-02
115	0.00	0.000	0.000	0.0190	2.6231	1.3592	9.40E-02
116	0.00	0.000	0.000	0.0190	2.2458	1.1637	9.29E-02
117	0.00	0.000	0.000	0.0190	1.9195	0.9946	9.19E-02
118	0.00	0.000	0.000	0.0190	1.6374	0.8484	9.11E-02
119	0.00	0.000	0.000	0.0190	1.3935	0.7220	9.04E-02
120	0.00	0.000	0.000	0.0190	1.1825	0.6127	8.98E-02
121	0.00	0.000	0.000	0.0190	1.0001	0.5182	8.93E-02
122	0.00	0.000	0.000	0.0190	0.8424	0.4365	8.88E-02
123	0.00	0.000	0.000	0.0190	0.7060	0.3658	8.84E-02
124	2.20	0.000	0.241	0.0255	0.5880	0.3047	8.81E-02
125	0.00	0.000	0.190	0.0249	0.4860	0.2518	8.78E-02
126	0.00	0.000	0.300	0.0239	0.3978	0.2061	8.75E-02
127	0.00	0.000	0.296	0.0229	0.3216	0.1666	8.73E-02
128	0.00	0.000	0.292	0.0219	0.2556	0.1325	8.71E-02
129	0.00	0.000	0.287	0.0210	0.1986	0.1029	8.70E-02
130	0.00	0.000	0.278	0.0201	0.1493	0.0774	8.68E-02
131	0.00	0.000	0.275	0.0191	0.1067	0.0553	8.67E-02
132	0.00	0.000	0.020	0.0191	0.0698	0.0362	8.66E-02
133	0.00	0.000	0.015	0.0190	0.0379	0.0197	8.65E-02
134	0.00	0.000	0.005	0.0190	0.0104	0.0053	6.81E-02
135	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
136	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
137	0.50	0.000	0.083	0.0204	0.0000	0.0000	0.00E+00

138	3.20	0.000	0.210	0.0304	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.254	0.0295	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.307	0.0285	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.304	0.0275	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.301	0.0265	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.298	0.0255	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.295	0.0245	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.292	0.0235	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.321	0.0225	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.318	0.0214	0.0000	0.0000	0.00E+00
148	0.30	0.000	0.368	0.0212	0.0000	0.0000	0.00E+00
149	1.00	0.000	0.366	0.0233	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.273	0.0224	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.243	0.0216	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.224	0.0208	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.222	0.0201	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.193	0.0194	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.104	0.0191	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.020	0.0190	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
179	0.70	0.000	0.080	0.0211	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.115	0.0207	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.138	0.0202	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.176	0.0196	0.0000	0.0000	0.00E+00
183	10.00	0.000	0.238	0.0522	0.0000	0.0000	3.75E-07
184	0.70	0.000	0.302	0.0535	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.266	0.0525	0.0027	0.0014	3.98E-02
186	0.00	0.000	0.265	0.0510	0.0113	0.0058	6.48E-02
187	0.00	0.000	0.264	0.0494	0.0375	0.0194	8.65E-02
188	0.00	0.000	0.262	0.0475	0.0807	0.0418	8.66E-02
189	0.00	0.000	0.261	0.0456	0.1265	0.0656	8.68E-02
190	0.00	0.000	0.259	0.0440	0.1573	0.0815	8.69E-02
191	0.00	0.000	0.258	0.0424	0.1729	0.0896	8.69E-02
192	0.00	0.000	0.237	0.0412	0.1773	0.0919	8.69E-02
193	0.00	0.000	0.255	0.0403	0.1476	0.0765	8.68E-02
194	0.00	0.000	0.254	0.0395	0.1052	0.0545	8.67E-02
195	0.00	0.000	0.253	0.0386	0.0685	0.0355	8.66E-02

196	0.00	0.000	0.252	0.0378	0.0368	0.0191	8.65E-02
197	0.00	0.000	0.250	0.0370	0.0094	0.0049	6.48E-02
198	0.00	0.000	0.249	0.0361	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.248	0.0353	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.247	0.0345	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.246	0.0337	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.245	0.0328	0.0000	0.0000	0.00E+00
203	1.60	0.000	0.304	0.0372	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.242	0.0364	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.241	0.0356	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.240	0.0348	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.239	0.0340	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.238	0.0332	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.237	0.0324	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.236	0.0316	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.203	0.0309	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.218	0.0302	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.233	0.0294	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.232	0.0286	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.231	0.0279	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.230	0.0271	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.229	0.0263	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.228	0.0256	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.227	0.0248	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.227	0.0241	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.226	0.0233	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.225	0.0226	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.224	0.0218	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.223	0.0211	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.222	0.0203	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.221	0.0196	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.176	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	13.20	0.000	0.202	0.0623	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.182	0.0566	0.0274	0.0142	2.17E-02
257	0.00	0.000	0.199	0.0537	0.3737	0.1936	8.75E-02
258	0.00	0.000	0.199	0.0514	0.5335	0.2764	8.79E-02
259	0.00	0.000	0.198	0.0500	0.5437	0.2817	8.80E-02
260	0.00	0.000	0.197	0.0493	0.4781	0.2478	8.78E-02
261	0.40	0.000	0.266	0.0496	0.3910	0.2026	8.75E-02
262	0.40	0.000	0.266	0.0498	0.3387	0.1755	8.74E-02
263	0.00	0.000	0.196	0.0484	0.3001	0.1555	8.73E-02
264	0.00	0.000	0.195	0.0472	0.2891	0.1498	8.72E-02
265	0.00	0.000	0.195	0.0460	0.2720	0.1409	8.72E-02
266	0.00	0.000	0.194	0.0448	0.2602	0.1348	8.71E-02
267	0.00	0.000	0.193	0.0437	0.2434	0.1261	8.71E-02
268	0.00	0.000	0.193	0.0427	0.2200	0.1140	8.70E-02
269	0.00	0.000	0.192	0.0417	0.1932	0.1001	8.70E-02
270	0.00	0.000	0.192	0.0408	0.1666	0.0863	8.69E-02
271	0.00	0.000	0.191	0.0399	0.1423	0.0737	8.68E-02
272	0.00	0.000	0.165	0.0392	0.1197	0.0620	8.67E-02
273	0.00	0.000	0.190	0.0386	0.0848	0.0439	8.66E-02
274	0.00	0.000	0.190	0.0380	0.0509	0.0264	8.65E-02
275	0.00	0.000	0.189	0.0373	0.0215	0.0112	8.65E-02
276	0.00	0.000	0.189	0.0367	0.0013	0.0006	1.82E-02
277	0.00	0.000	0.188	0.0361	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.188	0.0355	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.187	0.0348	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.187	0.0342	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.186	0.0336	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.186	0.0330	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.185	0.0324	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.185	0.0317	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.184	0.0311	0.0000	0.0000	0.00E+00
286	23.70	0.000	0.265	0.0969	0.0000	0.0000	0.00E+00
287	4.30	0.000	0.265	0.0634	0.0300	0.0156	2.17E-02
288	0.00	0.000	0.183	0.0615	0.4300	0.2228	8.76E-02
289	0.00	0.000	0.182	0.0566	1.3282	0.6882	9.02E-02
290	0.00	0.000	0.182	0.0553	2.3714	1.2288	9.32E-02
291	0.40	0.000	0.264	0.0544	3.4173	1.7707	9.62E-02
292	0.20	0.000	0.257	0.0522	4.0772	2.1126	9.81E-02
293	0.00	0.000	0.180	0.0516	3.6663	1.8997	9.70E-02
294	0.00	0.000	0.180	0.0510	3.1479	1.6311	9.55E-02
295	0.00	0.000	0.180	0.0504	2.6996	1.3988	9.42E-02
296	0.00	0.000	0.179	0.0498	2.3119	1.1979	9.31E-02
297	0.00	0.000	0.179	0.0492	1.9767	1.0243	9.21E-02
298	0.00	0.000	0.178	0.0486	1.6868	0.8741	9.13E-02
299	0.00	0.000	0.178	0.0480	1.4362	0.7442	9.05E-02
300	0.00	0.000	0.177	0.0474	1.2195	0.6319	8.99E-02
301	0.00	0.000	0.177	0.0468	1.0321	0.5348	8.94E-02
302	0.00	0.000	0.176	0.0463	0.8700	0.4508	8.89E-02
303	0.00	0.000	0.176	0.0457	0.7299	0.3782	8.85E-02
304	0.00	0.000	0.176	0.0451	0.6087	0.3154	8.82E-02
305	0.00	0.000	0.175	0.0445	0.5039	0.2611	8.78E-02
306	5.00	0.000	0.267	0.0603	0.4133	0.2142	8.76E-02
307	0.00	0.000	0.174	0.0587	0.3548	0.1838	8.74E-02
308	0.00	0.000	0.174	0.0549	0.4790	0.2482	8.78E-02
309	0.00	0.000	0.174	0.0535	0.5535	0.2868	8.80E-02
310	0.00	0.000	0.173	0.0529	0.4734	0.2453	8.78E-02
311	0.00	0.000	0.173	0.0523	0.3869	0.2005	8.75E-02

312	0.00	0.000	0.172	0.0518	0.3121	0.1617	8.73E-02
313	3.30	0.000	0.268	0.0614	0.2775	0.1438	8.72E-02
314	0.00	0.000	0.172	0.0566	0.2462	0.1276	8.71E-02
315	2.00	0.000	0.269	0.0610	0.4923	0.2551	8.78E-02
316	0.00	0.000	6.566	0.0388	0.5340	0.2767	8.79E-02
317	0.00	0.000	0.171	0.0382	0.4449	0.2305	8.77E-02
318	0.00	0.000	0.170	0.0377	0.3623	0.1877	8.74E-02
319	0.00	0.000	0.170	0.0371	0.2908	0.1507	8.72E-02
320	0.00	0.000	0.170	0.0365	0.2290	0.1187	8.71E-02
321	0.00	0.000	0.169	0.0360	0.1756	0.0910	8.69E-02
322	0.00	0.000	0.169	0.0354	0.1294	0.0671	8.68E-02
323	0.00	0.000	0.169	0.0348	0.0895	0.0464	8.67E-02
324	0.00	0.000	0.168	0.0343	0.0549	0.0285	8.66E-02
325	0.00	0.000	0.168	0.0337	0.0251	0.0130	8.65E-02
326	0.00	0.000	0.167	0.0332	0.0026	0.0012	2.93E-02
327	5.00	0.000	0.272	0.0489	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.167	0.0484	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.166	0.0478	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.166	0.0470	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.166	0.0462	0.0227	0.0118	8.65E-02
332	0.00	0.000	0.165	0.0452	0.0186	0.0096	8.65E-02
333	8.50	0.000	0.272	0.0725	0.0210	0.0109	8.65E-02
334	0.00	0.000	5.930	0.0451	0.0294	0.0152	4.37E-02
335	0.00	0.000	0.165	0.0442	0.5450	0.2824	8.80E-02
336	0.00	0.000	0.164	0.0437	0.5059	0.2621	8.79E-02
337	0.00	0.000	0.164	0.0432	0.4150	0.2150	8.76E-02
338	1.00	0.000	0.272	0.0456	0.3364	0.1743	8.74E-02
339	0.00	0.000	0.163	0.0445	0.2805	0.1453	8.72E-02
340	22.00	0.000	0.272	0.0922	0.2812	0.1457	8.72E-02

341	3.00	0.000	4.101	0.0527	0.3109	0.1611	8.73E-02
342	0.00	0.000	3.791	0.0391	0.3561	0.1845	8.74E-02
343	2.00	0.000	3.135	0.0354	1.4052	0.7281	9.04E-02
344	30.00	0.000	3.209	0.0889	2.7344	1.4169	9.43E-02
345	52.00	0.000	3.724	0.0938	3.2632	1.6909	9.58E-02
346	0.20	0.000	4.690	0.0437	2.8230	1.4628	9.45E-02
347	0.00	0.000	6.092	0.0234	2.8459	1.4746	9.46E-02
348	19.00	0.000	6.045	0.0666	4.8083	2.4915	1.00E-01
349	2.00	0.000	3.779	0.0551	6.6296	3.4352	1.05E-01
350	170.00	0.000	4.512	0.1404	7.5715	3.9233	1.08E-01
351	2.00	0.000	6.433	0.0429	6.8244	3.5361	1.06E-01
352	0.00	0.000	6.327	0.0218	11.8465	6.1384	1.21E-01
353	0.00	0.000	0.631	0.0191	17.6820	9.1621	1.37E-01
354	0.00	0.000	0.030	0.0190	21.0946	10.9304	1.47E-01
355	0.00	0.000	0.008	0.0190	22.9976	11.9164	1.53E-01
356	0.00	0.000	0.002	0.0190	23.9699	12.4202	1.55E-01
357	0.00	0.000	0.000	0.0190	24.2915	12.5869	1.56E-01
358	3.60	0.000	0.792	0.0284	24.1574	12.5174	1.56E-01
359	0.00	0.000	0.571	0.0265	23.7075	12.2843	1.55E-01
360	0.00	0.000	0.809	0.0238	23.0432	11.9400	1.53E-01
361	0.00	0.000	0.764	0.0212	22.2385	11.5231	1.50E-01
362	0.00	0.000	0.549	0.0194	21.3476	11.0614	1.48E-01
363	0.00	0.000	0.090	0.0191	20.4100	10.5756	1.45E-01
364	0.00	0.000	0.022	0.0190	19.4546	10.0806	1.42E-01
365	1.20	0.000	0.191	0.0224	18.5021	9.5870	1.40E-01

* = Frozen (air or soil)

Annual Totals for Year 23			
	mm*	cubic meters	percent
Precipitation	1,531.00	15,310.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	309.109	3,091.1	20.19
Drainage Collected from Layer 2	1,100.7331	11,007.3	71.90
Percolation/Leakage through Layer 3	42.662334	426.6	2.79
Average Head on Top of Layer 3	21.4917 (cm)	---	---
Change in Water Storage	78.4953	785.0	5.13
Soil Water at Start of Year	851.4996	8,515.0	55.62
Soil Water at End of Year	929.9949	9,299.9	60.74
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 24

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.329	0.0213		17.5672	9.1026	1.37E-01
2			0.80	0.000	0.577	0.0220		16.6604	8.6327	1.34E-01
3			0.00	0.000	0.407	0.0207		15.4162	7.9880	1.31E-01
4			0.00	0.000	0.391	0.0194		13.3259	6.9049	1.25E-01
5			0.00	0.000	0.094	0.0191		11.5006	5.9591	1.20E-01
6	*Note: head c		0.00	0.000	0.012	0.0190		9.9224	5.1414	1.15E-01
7			0.00	0.000	0.003	0.0190		8.5576	4.4342	1.11E-01
8			0.00	0.000	0.001	0.0190		7.3774	3.8227	1.08E-01
9			0.00	0.000	0.000	0.0190		6.3569	3.2939	1.05E-01
10			1.00	0.000	0.128	0.0219		5.4745	2.8366	1.02E-01
11			2.80	0.000	0.314	0.0302		4.7114	2.4412	1.00E-01
12			3.00	0.000	0.448	0.0387		4.0516	2.0994	9.81E-02
13			0.00	0.000	0.442	0.0372		3.4810	1.8037	9.64E-02
14			0.00	0.000	0.479	0.0356		2.9876	1.5481	9.50E-02
15			0.00	0.000	0.470	0.0341		2.5610	1.3270	9.38E-02
16			0.80	0.000	0.546	0.0349		2.1921	1.1358	9.27E-02
17			0.60	0.000	0.562	0.0350		1.8731	0.9706	9.18E-02
18			0.00	0.000	0.477	0.0334		1.5972	0.8276	9.10E-02
19			8.20	0.000	0.558	0.0589		1.3587	0.7040	9.03E-02
20			0.20	0.000	0.543	0.0527		1.1742	0.6084	8.98E-02
21			0.20	0.000	0.538	0.0501		1.2990	0.6731	9.01E-02

22	3.60	0.000	0.538	0.0603	1.2856	0.6661	9.01E-02
23	0.20	0.000	0.522	0.0560	1.1838	0.6134	8.98E-02
24	0.00	0.000	0.440	0.0512	1.2617	0.6538	9.00E-02
25	0.60	0.000	0.512	0.0515	1.2238	0.6341	8.99E-02
26	3.20	0.000	0.504	0.0605	1.0358	0.5367	8.94E-02
27	39.00	0.000	0.497	0.1043	0.9282	0.4810	8.91E-02
28	49.00	0.000	2.638	0.1013	0.8222	0.4260	8.88E-02
29	66.00	0.000	2.711	0.0981	0.6885	0.3568	8.84E-02
30	117.00	0.000	2.551	0.1178	0.5730	0.2969	8.80E-02
31	233.00	0.000	2.563	0.1604	0.4730	0.2451	8.78E-02
32	170.00	0.000	3.049	0.1343	7.0850	3.6712	1.07E-01
33	217.00	0.000	3.032	0.1548	502.9746	28.0081	1.53E+00
34	182.00	0.000	3.862	0.1394	814.1769	38.3399	2.43E+00
35	146.00	0.000	2.949	0.1680	951.4755	43.4120	2.83E+00
36	57.00	0.000	4.997	0.1680	1,029.9995	46.3726	3.05E+00
37	126.00	0.000	4.858	0.1680	1,029.9995	46.3726	3.05E+00
38	6.50	0.000	3.114	0.1680	1,029.9995	46.3726	3.05E+00
39	125.00	0.000	4.148	0.1680	1,029.9995	46.3726	3.05E+00
40	0.80	0.000	7.020	0.1680	1,029.9995	46.3726	3.05E+00
41	0.00	0.000	7.441	0.1676	1,029.9499	46.3708	3.05E+00
42	0.00	0.000	4.291	0.0334	1,014.5692	45.7868	3.01E+00
43	0.00	0.000	3.633	0.0213	967.6290	44.0142	2.87E+00
44	0.00	0.000	0.698	0.0190	919.2310	42.2034	2.73E+00
45	0.00	0.000	0.000	0.0190	872.6706	40.4779	2.60E+00
46	0.00	0.000	0.000	0.0190	828.0307	38.8391	2.47E+00
47	0.00	0.000	0.000	0.0190	785.2166	37.2819	2.35E+00
48	4.00	0.000	0.932	0.0292	744.1388	35.8013	2.23E+00
49	0.00	0.000	1.089	0.0256	704.7921	34.1996	2.12E+00
50	0.00	0.000	1.123	0.0219	667.1308	32.8888	2.01E+00

51	0.00	0.000	0.794	0.0192	630.9372	31.6395	1.90E+00
52	0.00	0.000	0.052	0.0190	596.1434	30.4487	1.80E+00
53	0.00	0.000	0.011	0.0190	562.6850	29.3131	1.71E+00
54	0.00	0.000	0.000	0.0190	530.5009	28.2302	1.61E+00
55	24.00	0.000	0.769	0.0964	499.5330	27.1972	1.53E+00
56	0.40	0.000	5.516	0.0501	472.4616	26.3017	1.45E+00
57	0.00	0.000	6.052	0.0300	450.0348	25.5661	1.38E+00
58	0.00	0.000	3.286	0.0190	422.0627	24.6562	1.30E+00
59	0.00	0.000	0.000	0.0190	395.1152	23.7886	1.22E+00
60	2.80	0.000	0.726	0.0259	369.1452	22.9617	1.15E+00
61	0.00	0.000	0.571	0.0240	344.1464	22.0806	1.08E+00
62	0.20	0.000	0.857	0.0218	320.0875	21.3519	1.01E+00
63	0.00	0.000	0.582	0.0199	296.8541	20.6575	9.41E-01
64	0.00	0.000	0.199	0.0192	274.4077	19.9968	8.77E-01
65	0.00	0.000	0.049	0.0191	252.7107	19.3698	8.14E-01
66	22.50	0.000	0.778	0.0915	231.7253	18.7767	7.54E-01
67	0.00	0.000	5.150	0.0450	136.8453	16.9726	4.81E-01
68	28.00	0.000	6.114	0.0956	58.2434	15.5936	2.54E-01
69	0.00	0.000	6.376	0.0448	54.0390	15.5863	2.42E-01
70	0.00	0.000	6.668	0.0226	52.4855	15.5836	2.38E-01
71	0.00	0.000	0.810	0.0190	54.2854	15.5867	2.43E-01
72	0.00	0.000	0.000	0.0190	53.5961	15.5855	2.41E-01
73	0.00	0.000	0.000	0.0190	50.9271	15.5809	2.33E-01
74	0.00	0.000	0.000	0.0190	46.6532	15.5735	2.21E-01
75	0.00	0.000	0.000	0.0190	41.0968	15.5639	2.05E-01
76	22.00	0.000	1.172	0.0884	33.9470	15.5029	1.84E-01
77	0.60	0.000	5.490	0.0420	28.4947	14.7648	1.68E-01
78	5.00	0.000	5.106	0.0413	25.7999	13.3685	1.61E-01
79	5.00	0.000	5.776	0.0387	24.1179	12.4969	1.56E-01

80	11.00	0.000	3.635	0.0632	22.8966	11.8641	1.52E-01
81	17.50	0.000	4.069	0.0830	21.7227	11.2558	1.49E-01
82	4.00	0.000	4.770	0.0584	19.5778	10.1444	1.43E-01
83	3.50	0.000	5.763	0.0498	17.2186	8.9220	1.36E-01
84	3.80	0.000	6.080	0.0421	16.3305	8.4618	1.33E-01
85	1.00	0.000	6.779	0.0228	15.9397	8.2593	1.32E-01
86	19.50	0.000	4.133	0.0741	15.4827	8.0225	1.31E-01
87	10.90	0.000	4.629	0.0689	14.9712	7.7575	1.30E-01
88	105.00	0.000	3.472	0.1183	13.9800	7.2438	1.27E-01
89	11.00	0.000	4.525	0.0627	12.0820	6.2604	1.21E-01
90	23.00	0.000	6.158	0.0945	11.9377	6.1856	1.21E-01
91	2.50	0.000	4.564	0.0590	12.7787	6.6214	1.23E-01
92	1.60	0.000	4.952	0.0439	13.1937	6.8364	1.24E-01
93	0.00	0.000	5.899	0.0243	15.2386	7.8960	1.30E-01
94	0.40	0.000	1.937	0.0191	16.7826	8.6960	1.35E-01
95	2.60	0.000	1.726	0.0220	17.7079	9.1755	1.37E-01
96	0.40	0.000	0.841	0.0206	18.1661	9.4129	1.39E-01
97	15.00	0.000	4.550	0.0554	18.2810	9.4725	1.39E-01
98	0.20	0.000	4.464	0.0412	18.1455	9.4023	1.39E-01
99	2.20	0.000	5.742	0.0294	17.8295	9.2385	1.38E-01
100	0.00	0.000	2.885	0.0198	17.3861	9.0088	1.36E-01
101	0.00	0.000	0.174	0.0192	16.8557	8.7339	1.35E-01
102	0.00	0.000	0.044	0.0190	16.2687	8.4298	1.33E-01
103	0.00	0.000	0.011	0.0190	15.6483	8.1083	1.31E-01
104	0.00	0.000	0.003	0.0190	15.0119	7.7786	1.30E-01
105	1.00	0.000	0.149	0.0218	14.1056	7.3089	1.27E-01
106	0.00	0.000	0.455	0.0203	12.2470	6.3459	1.22E-01
107	0.80	0.000	0.428	0.0216	10.5677	5.4758	1.17E-01
108	0.00	0.000	0.443	0.0201	9.1156	4.7233	1.13E-01

109	0.00	0.000	0.263	0.0192	7.8599	4.0727	1.09E-01
110	0.00	0.000	0.046	0.0191	6.7741	3.5101	1.06E-01
111	0.00	0.000	0.013	0.0190	5.8353	3.0236	1.03E-01
112	0.00	0.000	0.003	0.0190	5.0235	2.6030	1.01E-01
113	0.00	0.000	0.001	0.0190	4.3214	2.2392	9.88E-02
114	1.00	0.000	0.106	0.0220	3.7144	1.9246	9.71E-02
115	0.00	0.000	0.280	0.0210	3.1894	1.6526	9.56E-02
116	2.80	0.000	0.474	0.0288	2.7355	1.4174	9.43E-02
117	0.00	0.000	0.451	0.0273	2.3430	1.2140	9.31E-02
118	0.00	0.000	0.417	0.0259	2.0036	1.0382	9.22E-02
119	0.00	0.000	0.401	0.0246	1.7101	0.8861	9.13E-02
120	0.00	0.000	0.410	0.0232	1.4563	0.7546	9.06E-02
121	0.00	0.000	0.397	0.0219	1.2368	0.6409	9.00E-02
122	2.50	0.000	0.502	0.0285	1.0471	0.5425	8.94E-02
123	0.00	0.000	0.460	0.0270	0.8830	0.4575	8.89E-02
124	0.00	0.000	0.479	0.0254	0.7411	0.3840	8.85E-02
125	0.00	0.000	0.420	0.0240	0.6184	0.3204	8.82E-02
126	0.00	0.000	0.352	0.0228	0.5123	0.2655	8.79E-02
127	0.00	0.000	0.290	0.0219	0.4206	0.2179	8.76E-02
128	0.00	0.000	0.386	0.0206	0.3412	0.1768	8.74E-02
129	0.00	0.000	0.393	0.0193	0.2726	0.1413	8.72E-02
130	0.00	0.000	0.064	0.0191	0.2133	0.1105	8.70E-02
131	0.00	0.000	0.015	0.0190	0.1620	0.0840	8.69E-02
132	0.00	0.000	0.003	0.0190	0.1177	0.0610	8.67E-02
133	0.00	0.000	0.000	0.0190	0.0793	0.0411	8.66E-02
134	0.00	0.000	0.000	0.0190	0.0461	0.0239	8.65E-02
135	0.00	0.000	0.000	0.0190	0.0175	0.0091	8.64E-02
136	0.00	0.000	0.000	0.0190	0.0004	0.0000	5.12E-03
137	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

138	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
142	0.20	0.000	0.086	0.0194	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.033	0.0193	0.0000	0.0000	0.00E+00
144	0.20	0.000	0.109	0.0196	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.040	0.0194	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.075	0.0192	0.0000	0.0000	0.00E+00
147	2.00	0.000	0.219	0.0251	0.0000	0.0000	0.00E+00
148	1.00	0.000	0.214	0.0278	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.247	0.0269	0.0000	0.0000	2.00E-05
150	0.00	0.000	0.244	0.0261	0.0000	0.0000	0.00E+00
151	2.00	0.000	0.349	0.0316	0.0000	0.0000	0.00E+00
152	1.00	0.000	0.360	0.0338	0.0000	0.0000	0.00E+00
153	5.00	0.000	0.371	0.0492	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.323	0.0481	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.334	0.0470	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.342	0.0459	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.339	0.0447	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.336	0.0436	0.0000	0.0000	0.00E+00
159	2.00	0.000	0.390	0.0490	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.330	0.0479	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.328	0.0468	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.325	0.0457	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.322	0.0446	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.320	0.0436	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.317	0.0425	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.315	0.0414	0.0001	0.0001	1.96E-02

167	0.00	0.000	0.310	0.0403	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.310	0.0393	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.308	0.0383	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.306	0.0373	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.304	0.0363	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.301	0.0352	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.299	0.0343	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.297	0.0333	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.295	0.0323	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.293	0.0313	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.291	0.0303	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.289	0.0294	0.0000	0.0000	0.00E+00
179	1.00	0.000	0.348	0.0315	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.286	0.0306	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.284	0.0296	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.282	0.0287	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.281	0.0278	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.256	0.0269	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.260	0.0260	0.0000	0.0000	0.00E+00
186	6.00	0.000	0.338	0.0449	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.274	0.0440	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.272	0.0431	0.0000	0.0000	0.00E+00
189	3.80	0.000	0.333	0.0547	0.0000	0.0000	0.00E+00
190	1.60	0.000	0.332	0.0587	0.0003	0.0002	2.16E-02
191	1.80	0.000	0.330	0.0628	0.0247	0.0128	8.65E-02
192	3.60	0.000	0.329	0.0593	0.0486	0.0252	8.65E-02
193	3.00	0.000	0.328	0.0592	0.3868	0.2004	8.75E-02
194	0.00	0.000	0.264	0.0552	1.1187	0.5797	8.96E-02
195	0.00	0.000	0.262	0.0524	1.7849	0.9249	9.15E-02

196	0.00	0.000	0.261	0.0516	1.7084	0.8852	9.13E-02
197	0.00	0.000	0.259	0.0507	1.4549	0.7539	9.06E-02
198	0.00	0.000	0.258	0.0498	1.2356	0.6402	9.00E-02
199	0.00	0.000	0.257	0.0490	1.0460	0.5420	8.94E-02
200	0.00	0.000	0.255	0.0481	0.8821	0.4571	8.89E-02
201	0.00	0.000	0.254	0.0473	0.7403	0.3836	8.85E-02
202	0.00	0.000	0.253	0.0464	0.6177	0.3201	8.82E-02
203	0.00	0.000	0.252	0.0456	0.5117	0.2651	8.79E-02
204	0.00	0.000	0.250	0.0448	0.4200	0.2177	8.76E-02
205	0.00	0.000	0.249	0.0439	0.3408	0.1766	8.74E-02
206	0.00	0.000	0.248	0.0431	0.2722	0.1411	8.72E-02
207	0.00	0.000	0.247	0.0423	0.2130	0.1104	8.70E-02
208	0.00	0.000	0.246	0.0415	0.1617	0.0838	8.69E-02
209	0.00	0.000	0.245	0.0407	0.1174	0.0608	8.67E-02
210	0.00	0.000	0.244	0.0398	0.0791	0.0410	8.66E-02
211	0.00	0.000	0.242	0.0390	0.0460	0.0238	8.65E-02
212	0.00	0.000	0.241	0.0382	0.0173	0.0090	8.64E-02
213	0.00	0.000	0.240	0.0374	0.0003	0.0000	4.60E-03
214	0.00	0.000	0.239	0.0366	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.238	0.0358	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.237	0.0350	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.236	0.0343	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.235	0.0335	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.234	0.0327	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.233	0.0319	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.232	0.0311	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.231	0.0304	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.230	0.0296	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.229	0.0288	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.228	0.0281	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.227	0.0273	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.227	0.0266	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.226	0.0258	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.225	0.0251	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.224	0.0243	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.223	0.0236	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.222	0.0228	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.221	0.0221	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.221	0.0214	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.220	0.0206	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.219	0.0199	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.218	0.0192	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.052	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
304	1.40	0.000	0.095	0.0233	0.0000	0.0000	0.00E+00
305	0.20	0.000	0.148	0.0235	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.119	0.0231	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.119	0.0227	0.0000	0.0000	0.00E+00
308	0.20	0.000	0.193	0.0227	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.136	0.0223	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.139	0.0218	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.123	0.0214	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.118	0.0210	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.117	0.0206	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.117	0.0202	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.117	0.0199	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.108	0.0195	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.106	0.0191	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.033	0.0190	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
329	0.20	0.000	0.093	0.0194	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.014	0.0193	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.030	0.0192	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.028	0.0191	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.027	0.0190	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
336	5.50	0.000	0.158	0.0368	0.0000	0.0000	6.81E-06
337	0.00	0.000	0.136	0.0364	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.139	0.0359	0.0000	0.0000	0.00E+00
339	0.20	0.000	0.230	0.0358	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.150	0.0353	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.150	0.0348	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.150	0.0343	0.0000	0.0000	0.00E+00
343	0.00	0.000	0.150	0.0338	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.154	0.0333	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.154	0.0328	0.0000	0.0000	0.00E+00
346	0.00	0.000	0.156	0.0322	0.0000	0.0000	0.00E+00
347	0.00	0.000	0.159	0.0317	0.0000	0.0000	0.00E+00
348	0.00	0.000	0.157	0.0312	0.0000	0.0000	0.00E+00
349	0.00	0.000	0.156	0.0307	0.0000	0.0000	0.00E+00
350	0.00	0.000	0.156	0.0302	0.0000	0.0000	0.00E+00
351	0.00	0.000	0.156	0.0296	0.0000	0.0000	0.00E+00
352	0.00	0.000	0.156	0.0291	0.0000	0.0000	0.00E+00
353	0.00	0.000	0.155	0.0286	0.0000	0.0000	0.00E+00
354	0.00	0.000	0.155	0.0281	0.0000	0.0000	0.00E+00
355	0.00	0.000	0.155	0.0276	0.0000	0.0000	0.00E+00
356	0.00	0.000	0.154	0.0271	0.0000	0.0000	0.00E+00
357	0.00	0.000	0.154	0.0265	0.0000	0.0000	0.00E+00
358	0.00	0.000	0.154	0.0260	0.0000	0.0000	0.00E+00
359	0.00	0.000	0.153	0.0255	0.0000	0.0000	0.00E+00
360	0.00	0.000	0.153	0.0250	0.0000	0.0000	0.00E+00
361	0.10	0.000	0.217	0.0246	0.0000	0.0000	0.00E+00
362	0.00	0.000	0.152	0.0241	0.0000	0.0000	0.00E+00
363	0.00	0.000	0.152	0.0236	0.0000	0.0000	0.00E+00
364	0.00	0.000	0.152	0.0231	0.0000	0.0000	0.00E+00
365	1.10	0.000	0.256	0.0259	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 24			
	mm*	cubic meters	percent
Precipitation	1,960.30	19,603.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	272.180	2,721.8	13.88
Drainage Collected from Layer 2	1,682.1284	16,821.3	85.81
Percolation/Leakage through Layer 3	82.565808	825.7	4.21
Average Head on Top of Layer 3	65.4138 (cm)	---	---
Change in Water Storage	-76.5742	-765.7	-3.91
Soil Water at Start of Year	929.9949	9,299.9	47.44
Soil Water at End of Year	853.4207	8,534.2	43.54
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 25

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.151	0.0249		0.0000	0.0000	0.00E+00
2			0.00	0.000	0.151	0.0244		0.0000	0.0000	0.00E+00
3			21.80	0.000	0.222	0.0963		0.0000	0.0000	0.00E+00
4			4.00	0.000	0.227	0.0649		0.0000	0.0000	1.71E-07
5			2.00	0.000	0.228	0.0618		0.0989	0.0513	8.67E-02
6	*Note: head c		0.00	0.000	0.155	0.0589		0.8657	0.4486	8.89E-02
7			3.00	0.000	0.223	0.0657		2.0564	1.0656	9.23E-02
8			10.50	0.000	0.221	0.0697		2.9823	1.5453	9.50E-02
9			0.00	0.000	6.672	0.0465		2.9368	1.5217	9.49E-02
10			0.00	0.000	0.154	0.0460		3.4778	1.8020	9.64E-02
11			0.00	0.000	0.154	0.0455		4.4564	2.3091	9.92E-02
12			0.00	0.000	0.153	0.0450		4.4901	2.3266	9.93E-02
13			0.00	0.000	0.153	0.0444		3.8602	2.0002	9.75E-02
14			2.70	0.000	0.210	0.0527		3.3155	1.7180	9.59E-02
15			0.00	0.000	0.152	0.0522		2.8445	1.4739	9.46E-02
16			0.00	0.000	0.152	0.0517		2.4372	1.2629	9.34E-02
17			35.20	0.000	0.205	0.1013		2.0851	1.0804	9.24E-02
18			0.00	0.000	6.386	0.0413		1.8196	0.9428	9.16E-02
19			0.00	0.000	5.902	0.0194		2.3239	1.2041	9.31E-02
20			0.00	0.000	0.080	0.0191		3.6429	1.8876	9.69E-02
21			9.00	0.000	2.690	0.0401		4.8358	2.5057	1.00E-01

22	89.00	0.000	5.576	0.1167	5.7571	2.9831	1.03E-01
23	11.00	0.000	6.003	0.0673	5.4597	2.8290	1.02E-01
24	0.00	0.000	6.625	0.0418	5.9514	3.0838	1.04E-01
25	0.00	0.000	5.758	0.0226	7.6517	3.9648	1.08E-01
26	50.00	0.000	4.643	0.0944	9.4343	4.8885	1.14E-01
27	53.00	0.000	4.258	0.0888	9.7999	5.0779	1.15E-01
28	16.00	0.000	5.430	0.0768	8.6492	4.4816	1.11E-01
29	17.00	0.000	2.666	0.0898	9.5206	4.9332	1.14E-01
30	45.00	0.000	4.182	0.0901	10.7615	5.5762	1.17E-01
31	19.00	0.000	6.715	0.0860	10.0363	5.2004	1.15E-01
32	0.00	0.000	5.711	0.0455	12.1025	6.2710	1.21E-01
33	14.00	0.000	6.921	0.0687	15.7258	8.1485	1.32E-01
34	0.00	0.000	6.136	0.0482	19.6324	10.1727	1.43E-01
35	0.00	0.000	7.197	0.0242	21.8703	11.3323	1.49E-01
36	0.20	0.000	1.768	0.0190	23.0990	11.9690	1.53E-01
37	0.00	0.000	0.000	0.0190	23.6185	12.2382	1.54E-01
38	0.00	0.000	0.000	0.0190	23.6395	12.2490	1.54E-01
39	0.00	0.000	0.000	0.0190	23.3120	12.0793	1.54E-01
40	0.00	0.000	0.000	0.0190	22.7446	11.7853	1.52E-01
41	0.40	0.000	0.176	0.0197	22.0168	11.4082	1.50E-01
42	0.00	0.000	0.115	0.0194	21.1870	10.9782	1.47E-01
43	0.00	0.000	0.079	0.0191	20.2979	10.5175	1.45E-01
44	0.00	0.000	0.022	0.0190	19.3809	10.0424	1.42E-01
45	0.00	0.000	0.006	0.0190	18.4588	9.5646	1.40E-01
46	0.00	0.000	0.001	0.0190	17.5478	9.0925	1.37E-01
47	0.00	0.000	0.000	0.0190	16.6595	8.6323	1.34E-01
48	6.00	0.000	0.386	0.0377	15.5844	8.0752	1.31E-01
49	4.00	0.000	0.687	0.0488	13.5502	7.0212	1.25E-01
50	0.00	0.000	0.687	0.0465	11.6946	6.0597	1.20E-01

51	0.00	0.000	0.699	0.0441	10.0900	5.2282	1.15E-01
52	0.00	0.000	0.687	0.0418	8.7025	4.5093	1.11E-01
53	14.00	0.000	0.711	0.0811	7.5027	3.8876	1.08E-01
54	127.00	0.000	3.622	0.1230	6.5486	3.3932	1.05E-01
55	59.00	0.000	3.627	0.0948	5.6402	2.9225	1.03E-01
56	43.00	0.000	5.832	0.0948	4.8547	2.5155	1.00E-01
57	9.00	0.000	6.080	0.0611	4.9065	2.5424	1.01E-01
58	50.00	0.000	6.069	0.1031	9.8800	5.1194	1.15E-01
59	6.00	0.000	7.087	0.0526	11.5016	5.9597	1.20E-01
60	0.00	0.000	5.751	0.0332	17.2083	8.9166	1.36E-01
61	0.00	0.000	4.270	0.0190	23.5924	12.2246	1.54E-01
62	0.00	0.000	0.000	0.0190	27.1281	14.0567	1.65E-01
63	0.00	0.000	0.000	0.0190	28.7539	14.8991	1.69E-01
64	0.00	0.000	0.000	0.0190	29.3114	15.1880	1.71E-01
65	0.00	0.000	0.000	0.0190	29.1928	15.1265	1.70E-01
66	18.00	0.000	1.776	0.0731	28.6208	14.8301	1.69E-01
67	6.00	0.000	6.172	0.0556	27.7503	14.3791	1.66E-01
68	0.00	0.000	5.478	0.0374	26.1279	13.5384	1.62E-01
69	18.00	0.000	6.363	0.0762	24.7002	12.7986	1.58E-01
70	0.00	0.000	4.870	0.0483	23.7513	12.3069	1.55E-01
71	39.00	0.000	4.739	0.0974	22.0665	11.4340	1.50E-01
72	3.00	0.000	5.623	0.0404	19.9430	10.3336	1.44E-01
73	0.00	0.000	6.004	0.0203	18.0569	9.3563	1.38E-01
74	0.00	0.000	0.339	0.0192	18.3174	9.4913	1.39E-01
75	0.00	0.000	0.048	0.0191	18.3778	9.5226	1.39E-01
76	0.00	0.000	0.012	0.0190	18.2004	9.4307	1.39E-01
77	0.00	0.000	0.003	0.0190	17.8525	9.2504	1.38E-01
78	0.00	0.000	0.001	0.0190	17.3850	9.0082	1.36E-01
79	0.00	0.000	0.000	0.0190	16.8363	8.7239	1.35E-01

80	0.00	0.000	0.000	0.0190	16.2359	8.4128	1.33E-01
81	2.00	0.000	0.612	0.0236	15.6058	8.0863	1.31E-01
82	0.00	0.000	0.503	0.0219	14.9626	7.7530	1.29E-01
83	0.20	0.000	0.771	0.0200	13.9305	7.2182	1.27E-01
84	0.00	0.000	0.187	0.0194	12.0325	6.2347	1.21E-01
85	2.00	0.000	0.457	0.0246	10.3822	5.3796	1.16E-01
86	5.00	0.000	0.429	0.0398	8.9551	4.6402	1.12E-01
87	0.00	0.000	0.682	0.0375	7.7212	4.0008	1.09E-01
88	0.00	0.000	0.717	0.0351	6.6542	3.4479	1.06E-01
89	2.00	0.000	0.729	0.0394	5.7315	2.9698	1.03E-01
90	2.00	0.000	0.727	0.0436	4.9336	2.5564	1.01E-01
91	0.00	0.000	0.678	0.0414	4.2437	2.1989	9.86E-02
92	0.00	0.000	0.644	0.0392	3.6472	1.8898	9.69E-02
93	0.00	0.000	0.627	0.0371	3.1313	1.6225	9.54E-02
94	0.00	0.000	0.575	0.0352	2.6853	1.3914	9.41E-02
95	0.00	0.000	0.589	0.0332	2.2995	1.1915	9.30E-02
96	0.00	0.000	0.574	0.0313	1.9660	1.0187	9.21E-02
97	0.00	0.000	0.559	0.0295	1.6776	0.8693	9.12E-02
98	0.00	0.000	0.549	0.0276	1.4282	0.7400	9.05E-02
99	0.00	0.000	0.550	0.0258	1.2125	0.6283	8.99E-02
100	0.00	0.000	0.537	0.0240	1.0261	0.5317	8.94E-02
101	0.00	0.000	0.526	0.0223	0.8648	0.4481	8.89E-02
102	0.00	0.000	0.515	0.0205	0.7254	0.3759	8.85E-02
103	0.00	0.000	0.464	0.0190	0.6048	0.3134	8.81E-02
104	0.00	0.000	0.000	0.0190	0.5006	0.2594	8.78E-02
105	0.00	0.000	0.000	0.0190	0.4104	0.2127	8.76E-02
106	0.00	0.000	0.000	0.0190	0.3324	0.1723	8.74E-02
107	0.40	0.000	0.091	0.0200	0.2650	0.1373	8.72E-02
108	0.20	0.000	0.112	0.0203	0.2067	0.1071	8.70E-02

109	6.00	0.000	0.241	0.0395	0.1563	0.0810	8.68E-02
110	2.00	0.000	0.419	0.0448	0.1128	0.0584	8.67E-02
111	0.00	0.000	0.403	0.0434	0.0751	0.0389	8.66E-02
112	0.00	0.000	0.411	0.0421	0.0425	0.0220	8.65E-02
113	0.00	0.000	0.414	0.0407	0.0143	0.0073	8.12E-02
114	0.00	0.000	0.408	0.0393	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.403	0.0380	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.349	0.0368	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.405	0.0355	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.400	0.0341	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.396	0.0328	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.391	0.0315	0.0000	0.0000	0.00E+00
121	0.60	0.000	0.443	0.0320	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.382	0.0308	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.378	0.0295	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.374	0.0283	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.362	0.0271	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.366	0.0258	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.362	0.0246	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.359	0.0234	0.0000	0.0000	0.00E+00
129	0.20	0.000	0.413	0.0227	0.0000	0.0000	0.00E+00
130	9.00	0.000	0.412	0.0513	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.348	0.0502	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.345	0.0490	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.342	0.0479	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.339	0.0467	0.0000	0.0000	0.00E+00
135	1.80	0.000	0.398	0.0511	0.0048	0.0023	4.81E-02
136	0.00	0.000	0.333	0.0500	0.0057	0.0028	4.81E-02
137	0.00	0.000	0.330	0.0487	0.0024	0.0011	3.33E-02

138	0.00	0.000	0.328	0.0472	0.0122	0.0063	8.64E-02
139	0.00	0.000	0.325	0.0459	0.0162	0.0084	8.64E-02
140	2.20	0.000	0.385	0.0517	0.0054	0.0028	8.64E-02
141	9.00	0.000	0.383	0.0705	0.0026	0.0012	3.69E-02
142	32.00	0.000	0.380	0.1010	0.0000	0.0000	0.00E+00
143	4.00	0.000	3.989	0.0556	0.0393	0.0204	2.17E-02
144	17.00	0.000	3.020	0.0855	0.8562	0.4436	8.89E-02
145	18.00	0.000	4.831	0.0914	2.1433	1.1106	9.26E-02
146	0.00	0.000	4.712	0.0497	1.9619	1.0166	9.20E-02
147	0.00	0.000	4.811	0.0337	2.2351	1.1581	9.28E-02
148	0.00	0.000	3.650	0.0190	3.8712	2.0059	9.75E-02
149	0.00	0.000	0.000	0.0190	5.3389	2.7664	1.02E-01
150	0.00	0.000	0.000	0.0190	6.5677	3.4031	1.05E-01
151	0.00	0.000	0.000	0.0190	7.4860	3.8789	1.08E-01
152	0.00	0.000	0.000	0.0190	8.1536	4.2249	1.10E-01
153	0.00	0.000	0.000	0.0190	8.6196	4.4663	1.11E-01
154	0.00	0.000	0.000	0.0190	8.9239	4.6240	1.12E-01
155	0.00	0.000	0.000	0.0190	8.7336	4.5254	1.12E-01
156	0.00	0.000	0.000	0.0190	7.5508	3.9125	1.08E-01
157	0.00	0.000	0.000	0.0190	6.5069	3.3716	1.05E-01
158	0.00	0.000	0.000	0.0190	5.6041	2.9038	1.03E-01
159	0.00	0.000	0.000	0.0190	4.8235	2.4993	1.00E-01
160	0.00	0.000	0.000	0.0190	4.1485	2.1496	9.83E-02
161	0.00	0.000	0.000	0.0190	3.5648	1.8471	9.67E-02
162	0.00	0.000	0.000	0.0190	3.0601	1.5856	9.52E-02
163	0.00	0.000	0.000	0.0190	2.6237	1.3595	9.40E-02
164	0.00	0.000	0.000	0.0190	2.2463	1.1639	9.29E-02
165	0.00	0.000	0.000	0.0190	1.9200	0.9948	9.19E-02
166	9.00	0.000	0.531	0.0472	1.6378	0.8486	9.11E-02

167	0.20	0.000	0.672	0.0457	1.3938	0.7222	9.04E-02
168	0.60	0.000	0.712	0.0453	1.1828	0.6129	8.98E-02
169	0.00	0.000	0.627	0.0432	1.0003	0.5183	8.93E-02
170	0.00	0.000	0.609	0.0412	0.8426	0.4366	8.88E-02
171	0.00	0.000	0.593	0.0392	0.7061	0.3659	8.84E-02
172	0.00	0.000	0.577	0.0373	0.5882	0.3048	8.81E-02
173	0.00	0.000	0.563	0.0354	0.4862	0.2519	8.78E-02
174	0.00	0.000	0.550	0.0336	0.3980	0.2062	8.75E-02
175	0.00	0.000	0.537	0.0318	0.3217	0.1667	8.73E-02
176	0.00	0.000	0.526	0.0300	0.2557	0.1325	8.71E-02
177	0.00	0.000	0.515	0.0283	0.1987	0.1030	8.70E-02
178	0.00	0.000	0.505	0.0266	0.1494	0.0774	8.68E-02
179	0.00	0.000	0.495	0.0250	0.1067	0.0553	8.67E-02
180	0.00	0.000	0.486	0.0233	0.0699	0.0362	8.66E-02
181	0.80	0.000	0.547	0.0242	0.0380	0.0197	8.65E-02
182	0.00	0.000	0.469	0.0226	0.0104	0.0053	6.82E-02
183	0.60	0.000	0.531	0.0229	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.445	0.0214	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.445	0.0199	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.233	0.0191	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.025	0.0190	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
191	0.60	0.000	0.106	0.0206	0.0000	0.0000	0.00E+00
192	1.40	0.000	0.241	0.0245	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.167	0.0240	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.266	0.0231	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.263	0.0222	0.0000	0.0000	0.00E+00

196	0.00	0.000	0.260	0.0213	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.257	0.0205	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.245	0.0197	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.165	0.0191	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.023	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.006	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
204	0.80	0.000	0.104	0.0213	0.0000	0.0000	0.00E+00
205	17.00	0.000	0.363	0.0768	0.0000	0.0000	0.00E+00
206	1.60	0.000	0.411	0.0521	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.345	0.0432	0.1663	0.0862	6.53E-02
208	0.00	0.000	0.342	0.0421	0.9600	0.4974	8.92E-02
209	0.00	0.000	0.339	0.0410	2.2098	1.1450	9.28E-02
210	0.00	0.000	0.336	0.0398	2.3108	1.1973	9.31E-02
211	0.00	0.000	0.333	0.0353	2.0820	1.0788	9.24E-02
212	0.00	0.000	0.330	0.0342	1.9384	1.0044	9.20E-02
213	0.00	0.000	0.284	0.0333	1.6537	0.8569	9.12E-02
214	0.00	0.000	0.325	0.0322	1.4076	0.7293	9.05E-02
215	0.00	0.000	0.322	0.0311	1.1947	0.6190	8.98E-02
216	0.00	0.000	0.320	0.0300	1.0106	0.5237	8.93E-02
217	0.00	0.000	0.317	0.0290	0.8515	0.4412	8.89E-02
218	0.00	0.000	0.315	0.0279	0.7139	0.3699	8.85E-02
219	0.00	0.000	0.312	0.0269	0.5948	0.3082	8.81E-02
220	3.00	0.000	0.389	0.0356	0.4919	0.2549	8.78E-02
221	0.00	0.000	0.308	0.0346	0.4029	0.2088	8.76E-02
222	0.00	0.000	0.306	0.0335	0.3260	0.1689	8.73E-02
223	0.00	0.000	0.304	0.0325	0.2595	0.1344	8.71E-02
224	0.00	0.000	0.301	0.0315	0.2019	0.1046	8.70E-02

225	0.00	0.000	0.299	0.0305	0.1522	0.0788	8.68E-02
226	0.00	0.000	0.297	0.0295	0.1092	0.0566	8.67E-02
227	0.00	0.000	0.295	0.0282	0.0879	0.0456	8.67E-02
228	0.00	0.000	0.281	0.0272	0.0672	0.0348	8.66E-02
229	0.00	0.000	0.291	0.0263	0.0357	0.0185	8.65E-02
230	0.00	0.000	0.289	0.0253	0.0087	0.0044	6.14E-02
231	0.00	0.000	0.288	0.0243	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.254	0.0235	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.271	0.0226	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.282	0.0216	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.281	0.0207	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.279	0.0198	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.235	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.20	0.000	0.099	0.0193	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.020	0.0193	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.042	0.0191	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.032	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.005	0.0190	0.0000	0.0000	8.55E-08
268	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	4.12E-08
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	1.15E-05
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	3.00	0.000	0.182	0.0284	0.0000	0.0000	0.00E+00
281	1.00	0.000	0.182	0.0311	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.184	0.0305	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.190	0.0299	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.184	0.0293	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.183	0.0287	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.181	0.0280	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.181	0.0274	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.180	0.0268	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.180	0.0262	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.198	0.0256	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.197	0.0249	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.197	0.0243	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.196	0.0236	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.195	0.0230	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.195	0.0223	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.194	0.0217	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.193	0.0210	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.193	0.0204	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.197	0.0197	0.0000	0.0000	0.00E+00
300	8.00	0.000	0.303	0.0454	0.0000	0.0000	0.00E+00
301	0.40	0.000	0.300	0.0457	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.205	0.0450	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.201	0.0444	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.207	0.0437	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.206	0.0430	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.206	0.0423	0.0000	0.0000	5.16E-04
307	0.00	0.000	0.205	0.0416	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.204	0.0409	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.204	0.0402	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.203	0.0396	0.0002	0.0000	2.33E-03
311	0.00	0.000	0.202	0.0389	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.202	0.0382	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.201	0.0375	0.0000	0.0000	0.00E+00
314	1.80	0.000	0.308	0.0425	0.0001	0.0000	2.13E-03
315	0.00	0.000	0.200	0.0418	0.0002	0.0000	3.41E-03
316	0.00	0.000	0.199	0.0412	0.0001	0.0000	1.01E-03
317	0.00	0.000	0.199	0.0405	0.0003	0.0000	4.27E-03
318	0.00	0.000	0.198	0.0398	0.0002	0.0000	4.59E-03
319	0.00	0.000	0.197	0.0391	0.0007	0.0002	1.69E-02
320	0.00	0.000	0.197	0.0384	0.0001	0.0000	2.10E-03
321	0.00	0.000	0.196	0.0378	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.196	0.0371	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.195	0.0364	0.0002	0.0000	7.77E-03
324	0.00	0.000	0.195	0.0357	0.0005	0.0001	1.58E-02
325	0.00	0.000	0.191	0.0351	0.0003	0.0000	4.78E-03
326	0.00	0.000	0.193	0.0344	0.0003	0.0000	4.86E-03
327	0.00	0.000	0.193	0.0338	0.0008	0.0001	1.12E-02
328	0.00	0.000	0.192	0.0331	0.0006	0.0001	8.90E-03
329	0.00	0.000	0.192	0.0324	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.191	0.0318	0.0000	0.0000	0.00E+00
331	0.00	0.000	0.191	0.0312	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.190	0.0305	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.190	0.0299	0.0000	0.0000	0.00E+00
334	0.00	0.000	0.189	0.0293	0.0000	0.0000	0.00E+00
335	0.00	0.000	0.189	0.0286	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.188	0.0280	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.188	0.0274	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.187	0.0268	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.187	0.0262	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.186	0.0255	0.0000	0.0000	0.00E+00

341	0.00	0.000	0.186	0.0249	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.185	0.0243	0.0000	0.0000	0.00E+00
343	0.60	0.000	0.309	0.0253	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.184	0.0247	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.184	0.0240	0.0000	0.0000	0.00E+00
346	0.00	0.000	0.183	0.0234	0.0000	0.0000	0.00E+00
347	0.00	0.000	0.167	0.0229	0.0000	0.0000	0.00E+00
348	0.00	0.000	0.177	0.0223	0.0000	0.0000	0.00E+00
349	0.00	0.000	0.182	0.0217	0.0000	0.0000	0.00E+00
350	0.00	0.000	0.181	0.0211	0.0000	0.0000	0.00E+00
351	43.00	0.000	0.310	0.0899	0.0000	0.0000	0.00E+00
352	0.00	0.000	5.856	0.0343	0.0939	0.0486	4.35E-02
353	0.00	0.000	4.586	0.0190	0.7587	0.3931	8.86E-02
354	0.00	0.000	0.000	0.0190	2.3718	1.2290	9.32E-02
355	0.00	0.000	0.000	0.0190	3.7415	1.9387	9.72E-02
356	0.00	0.000	0.000	0.0190	4.8138	2.4943	1.00E-01
357	0.00	0.000	0.000	0.0190	5.6413	2.9231	1.03E-01
358	0.00	0.000	0.000	0.0190	5.9826	3.0999	1.04E-01
359	0.00	0.000	0.000	0.0190	5.2137	2.7015	1.01E-01
360	0.00	0.000	0.000	0.0190	4.4859	2.3244	9.93E-02
361	67.00	0.000	1.131	0.1149	3.8566	1.9983	9.75E-02
362	45.00	0.000	4.287	0.0966	3.5155	1.8216	9.65E-02
363	4.00	0.000	5.233	0.0496	3.1550	1.6348	9.55E-02
364	35.00	0.000	5.581	0.0906	3.7145	1.9247	9.71E-02
365	38.00	0.000	5.186	0.0909	4.9998	2.5907	1.01E-01

* = Frozen (air or soil)

Annual Totals for Year 25			
	mm*	cubic meters	percent
Precipitation	1,203.00	12,030.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	313.408	3,134.1	26.05
Drainage Collected from Layer 2	699.1221	6,991.2	58.11
Percolation/Leakage through Layer 3	20.380342	203.8	1.69
Average Head on Top of Layer 3	3.6966 (cm)	---	---
Change in Water Storage	170.0894	1,700.9	14.14
Soil Water at Start of Year	853.4207	8,534.2	70.94
Soil Water at End of Year	1,023.5101	10,235.1	85.08
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 26

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			75.00	0.000	4.197	0.0981		4.3115	2.2340	9.88E-02
2			1.00	0.000	4.417	0.0409		3.9326	2.0377	9.77E-02
3			6.00	0.000	5.135	0.0438		8.6187	4.4659	1.11E-01
4			9.00	0.000	3.521	0.0620		15.2219	7.8874	1.30E-01
5			49.00	0.000	2.545	0.0994		19.2704	9.9852	1.42E-01
6	*Note: head c		112.00	0.000	3.695	0.1179		18.5362	9.6047	1.40E-01
7			2.00	0.000	5.798	0.0459		16.8852	8.7492	1.35E-01
8			2.00	0.000	4.086	0.0385		25.0310	12.9700	1.58E-01
9			24.00	0.000	4.236	0.0986		51.2403	15.5815	2.34E-01
10			0.50	0.000	4.955	0.0504		150.3443	17.3563	5.19E-01
11			1.00	0.000	4.158	0.0388		231.2244	18.7627	7.52E-01
12			8.00	0.000	4.115	0.0518		211.0848	18.2093	6.94E-01
13			10.00	0.000	4.983	0.0679		160.4764	17.1995	5.49E-01
14			5.00	0.000	5.761	0.0558		88.8346	16.0352	3.42E-01
15			0.00	0.000	5.357	0.0375		56.8200	15.5911	2.50E-01
16			0.00	0.000	5.544	0.0190		54.3974	15.5869	2.43E-01
17			0.00	0.000	0.000	0.0190		50.4211	15.5800	2.32E-01
18			13.00	0.000	2.166	0.0551		45.1020	15.5709	2.16E-01
19			10.00	0.000	4.585	0.0668		38.5809	15.5596	1.98E-01
20			1.50	0.000	4.395	0.0543		29.8017	15.1025	1.72E-01
21			9.00	0.000	6.236	0.0617		27.1127	14.0487	1.64E-01

22	0.00	0.000	6.359	0.0405	25.4120	13.1675	1.60E-01
23	0.00	0.000	4.990	0.0238	23.8953	12.3816	1.55E-01
24	0.00	0.000	1.451	0.0190	22.4450	11.6301	1.51E-01
25	0.00	0.000	0.000	0.0190	21.0674	10.9163	1.47E-01
26	0.00	0.000	0.000	0.0190	19.7674	10.2427	1.43E-01
27	0.00	0.000	0.000	0.0190	18.5616	9.6178	1.40E-01
28	0.00	0.000	0.000	0.0190	16.8111	8.7108	1.35E-01
29	1.00	0.000	0.190	0.0217	14.5143	7.5207	1.28E-01
30	0.00	0.000	0.550	0.0199	12.5283	6.4916	1.22E-01
31	0.00	0.000	0.192	0.0192	10.8109	5.6018	1.18E-01
32	5.00	0.000	0.554	0.0340	9.3259	4.8323	1.13E-01
33	0.00	0.000	0.684	0.0318	8.0417	4.1669	1.10E-01
34	0.00	0.000	0.768	0.0292	6.9313	3.5915	1.06E-01
35	3.00	0.000	0.775	0.0366	5.9712	3.0940	1.04E-01
36	9.00	0.000	0.809	0.0639	5.1409	2.6638	1.01E-01
37	0.00	0.000	0.787	0.0590	4.4719	2.3172	9.93E-02
38	0.00	0.000	0.752	0.0537	4.0741	2.1110	9.81E-02
39	0.00	0.000	0.721	0.0496	3.6836	1.9087	9.70E-02
40	35.00	0.000	0.748	0.1001	3.2519	1.6850	9.58E-02
41	18.00	0.000	4.370	0.0814	2.8094	1.4557	9.45E-02
42	8.00	0.000	3.637	0.0614	2.5128	1.3020	9.36E-02
43	39.00	0.000	5.225	0.1004	2.3890	1.2379	9.33E-02
44	0.00	0.000	6.867	0.0408	2.4588	1.2741	9.35E-02
45	0.00	0.000	6.552	0.0190	3.7689	1.9529	9.73E-02
46	1.00	0.000	0.472	0.0208	6.0028	3.1104	1.04E-01
47	11.00	0.000	2.943	0.0476	7.6715	3.9751	1.08E-01
48	0.50	0.000	4.051	0.0358	8.8940	4.6085	1.12E-01
49	0.00	0.000	3.327	0.0247	9.7637	5.0591	1.15E-01
50	20.00	0.000	3.013	0.0813	10.3546	5.3654	1.16E-01

51	23.00	0.000	3.484	0.0899	10.7534	5.5720	1.17E-01
52	19.00	0.000	5.816	0.0877	9.9921	5.1775	1.15E-01
53	0.00	0.000	6.325	0.0453	8.6561	4.4852	1.11E-01
54	0.00	0.000	6.769	0.0205	8.2577	4.2788	1.10E-01
55	0.00	0.000	0.415	0.0191	9.1925	4.7632	1.13E-01
56	0.00	0.000	0.032	0.0190	10.0496	5.2073	1.15E-01
57	6.00	0.000	1.563	0.0338	10.6261	5.5060	1.17E-01
58	17.00	0.000	2.452	0.0823	10.9817	5.6903	1.18E-01
59	18.00	0.000	2.586	0.0946	11.1353	5.7698	1.18E-01
60	90.00	0.000	2.812	0.1091	10.0077	5.1856	1.15E-01
61	11.00	0.000	5.439	0.0632	8.6313	4.4724	1.11E-01
62	0.00	0.000	6.136	0.0427	8.9334	4.6289	1.12E-01
63	0.00	0.000	6.284	0.0218	11.5361	5.9775	1.20E-01
64	0.00	0.000	0.624	0.0190	13.7060	7.1019	1.26E-01
65	0.00	0.000	0.000	0.0190	15.1473	7.8487	1.30E-01
66	0.00	0.000	0.000	0.0190	16.0520	8.3175	1.33E-01
67	0.00	0.000	0.000	0.0190	16.5358	8.5682	1.34E-01
68	0.00	0.000	0.000	0.0190	16.7058	8.6563	1.35E-01
69	0.00	0.000	0.000	0.0190	16.6436	8.6241	1.34E-01
70	0.00	0.000	0.000	0.0190	16.4114	8.5037	1.34E-01
71	0.00	0.000	0.000	0.0190	16.0568	8.3200	1.33E-01
72	0.00	0.000	0.000	0.0190	15.6164	8.0918	1.31E-01
73	0.00	0.000	0.000	0.0190	15.1181	7.8336	1.30E-01
74	0.00	0.000	0.000	0.0190	14.5836	7.5566	1.28E-01
75	0.00	0.000	0.000	0.0190	13.9792	7.2435	1.27E-01
76	0.00	0.000	0.000	0.0190	12.3558	6.4023	1.22E-01
77	2.50	0.000	0.392	0.0260	10.6618	5.5245	1.17E-01
78	4.00	0.000	0.375	0.0381	9.1969	4.7655	1.13E-01
79	21.00	0.000	0.732	0.0889	7.9303	4.1091	1.09E-01

80	0.00	0.000	3.968	0.0415	6.8349	3.5416	1.06E-01
81	23.00	0.000	0.768	0.0922	6.1391	3.1810	1.04E-01
82	0.00	0.000	6.603	0.0459	6.0955	3.1584	1.04E-01
83	0.00	0.000	6.749	0.0234	5.7547	2.9818	1.03E-01
84	34.00	0.000	6.373	0.0954	6.4728	3.3539	1.05E-01
85	3.00	0.000	4.611	0.0434	7.0315	3.6434	1.07E-01
86	0.00	0.000	4.456	0.0285	6.5796	3.4093	1.05E-01
87	4.00	0.000	5.490	0.0235	7.1092	3.6837	1.07E-01
88	0.00	0.000	1.083	0.0199	7.8600	4.0727	1.09E-01
89	0.00	0.000	0.202	0.0193	8.3976	4.3513	1.11E-01
90	0.00	0.000	0.055	0.0191	8.7602	4.5392	1.12E-01
91	0.00	0.000	0.020	0.0190	8.8607	4.5913	1.12E-01
92	0.00	0.000	0.003	0.0190	7.8291	4.0567	1.09E-01
93	1.00	0.000	0.224	0.0216	6.7474	3.4963	1.06E-01
94	0.00	0.000	0.545	0.0198	5.8122	3.0116	1.03E-01
95	16.00	0.000	0.963	0.0699	5.0034	2.5926	1.01E-01
96	0.00	0.000	5.905	0.0449	4.3489	2.2534	9.89E-02
97	0.00	0.000	1.203	0.0398	4.1407	2.1455	9.83E-02
98	0.00	0.000	1.088	0.0362	3.6071	1.8690	9.68E-02
99	0.00	0.000	1.000	0.0329	3.0967	1.6046	9.53E-02
100	0.00	0.000	0.931	0.0298	2.6553	1.3759	9.40E-02
101	0.00	0.000	0.874	0.0268	2.2736	1.1781	9.29E-02
102	0.00	0.000	0.656	0.0247	1.9436	1.0071	9.20E-02
103	0.00	0.000	0.787	0.0220	1.6582	0.8592	9.12E-02
104	0.00	0.000	0.752	0.0195	1.4114	0.7313	9.05E-02
105	0.00	0.000	0.160	0.0190	1.1980	0.6208	8.98E-02
106	0.00	0.000	0.000	0.0190	1.0135	0.5252	8.93E-02
107	0.00	0.000	0.000	0.0190	0.8540	0.4425	8.89E-02
108	0.00	0.000	0.000	0.0190	0.7160	0.3710	8.85E-02

109	0.00	0.000	0.000	0.0190	0.5967	0.3092	8.81E-02
110	13.00	0.000	0.457	0.0608	0.4935	0.2557	8.78E-02
111	10.00	0.000	0.588	0.0715	0.4101	0.2125	8.76E-02
112	10.00	0.000	4.314	0.0648	0.4341	0.2249	8.76E-02
113	30.00	0.000	3.785	0.0946	0.5256	0.2723	8.79E-02
114	21.00	0.000	4.014	0.0961	0.5151	0.2669	8.79E-02
115	2.00	0.000	4.239	0.0528	0.4678	0.2424	8.77E-02
116	2.00	0.000	4.695	0.0433	0.8905	0.4614	8.90E-02
117	0.00	0.000	5.528	0.0245	2.7845	1.4428	9.44E-02
118	0.00	0.000	1.533	0.0194	4.5438	2.3544	9.95E-02
119	4.00	0.000	2.407	0.0247	5.9076	3.0611	1.03E-01
120	0.00	0.000	1.125	0.0209	6.9482	3.6003	1.06E-01
121	0.00	0.000	0.446	0.0194	7.7174	3.9989	1.09E-01
122	0.00	0.000	0.109	0.0191	8.2679	4.2841	1.10E-01
123	0.00	0.000	0.021	0.0190	8.6425	4.4782	1.11E-01
124	0.00	0.000	0.004	0.0190	8.7210	4.5189	1.12E-01
125	0.00	0.000	0.000	0.0190	7.6599	3.9690	1.08E-01
126	0.00	0.000	0.000	0.0190	6.6012	3.4205	1.05E-01
127	0.00	0.000	0.000	0.0190	5.6857	2.9461	1.03E-01
128	0.00	0.000	0.000	0.0190	4.8940	2.5359	1.00E-01
129	0.00	0.000	0.000	0.0190	4.2095	2.1812	9.85E-02
130	0.00	0.000	0.000	0.0190	3.6176	1.8745	9.68E-02
131	0.00	0.000	0.000	0.0190	3.1057	1.6092	9.53E-02
132	0.00	0.000	0.000	0.0190	2.6631	1.3799	9.41E-02
133	0.00	0.000	0.000	0.0190	2.2804	1.1816	9.30E-02
134	0.00	0.000	0.000	0.0190	1.9494	1.0101	9.20E-02
135	0.00	0.000	0.000	0.0190	1.6633	0.8618	9.12E-02
136	0.00	0.000	0.000	0.0190	1.4158	0.7336	9.05E-02
137	0.00	0.000	0.000	0.0190	1.2018	0.6227	8.99E-02

138	0.00	0.000	0.000	0.0190	1.0168	0.5269	8.93E-02
139	0.00	0.000	0.000	0.0190	0.8568	0.4440	8.89E-02
140	0.00	0.000	0.000	0.0190	0.7185	0.3723	8.85E-02
141	0.00	0.000	0.000	0.0190	0.5988	0.3103	8.81E-02
142	0.00	0.000	0.000	0.0190	0.4954	0.2567	8.78E-02
143	0.00	0.000	0.000	0.0190	0.4059	0.2103	8.76E-02
144	0.00	0.000	0.000	0.0190	0.3286	0.1703	8.73E-02
145	0.00	0.000	0.000	0.0190	0.2617	0.1356	8.72E-02
146	0.00	0.000	0.000	0.0190	0.2039	0.1056	8.70E-02
147	0.00	0.000	0.000	0.0190	0.1538	0.0797	8.68E-02
148	0.00	0.000	0.000	0.0190	0.1106	0.0573	8.67E-02
149	0.00	0.000	0.000	0.0190	0.0732	0.0379	8.66E-02
150	0.00	0.000	0.000	0.0190	0.0409	0.0212	8.65E-02
151	0.00	0.000	0.000	0.0190	0.0129	0.0065	7.66E-02
152	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
153	0.40	0.000	0.087	0.0200	0.0000	0.0000	0.00E+00
154	1.20	0.000	0.151	0.0235	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.187	0.0229	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.296	0.0219	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.292	0.0210	0.0000	0.0000	0.00E+00
158	1.20	0.000	0.337	0.0238	0.0000	0.0000	0.00E+00
159	0.20	0.000	0.344	0.0234	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.269	0.0225	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.286	0.0215	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.275	0.0206	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.269	0.0197	0.0000	0.0000	3.46E-07
164	1.00	0.000	0.232	0.0223	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.198	0.0216	0.0000	0.0000	0.00E+00
166	4.60	0.000	0.287	0.0360	0.0000	0.0000	0.00E+00

167	0.20	0.000	0.369	0.0354	0.0000	0.0000	8.67E-07
168	0.00	0.000	0.329	0.0343	0.0000	0.0000	3.64E-04
169	0.00	0.000	0.344	0.0332	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.338	0.0320	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.334	0.0309	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.330	0.0298	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.327	0.0287	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.324	0.0276	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.321	0.0266	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.318	0.0255	0.0000	0.0000	0.00E+00
177	3.00	0.000	0.370	0.0343	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.328	0.0332	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.328	0.0321	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.325	0.0310	0.0000	0.0000	0.00E+00
181	0.80	0.000	0.380	0.0324	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.325	0.0313	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.326	0.0302	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.315	0.0292	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.315	0.0281	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.320	0.0271	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.297	0.0261	0.0000	0.0000	0.00E+00
188	2.00	0.000	0.347	0.0316	0.0000	0.0000	0.00E+00
189	0.50	0.000	0.348	0.0321	0.0000	0.0000	0.00E+00
190	3.00	0.000	0.350	0.0409	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.288	0.0400	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.286	0.0390	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.277	0.0381	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.275	0.0372	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.290	0.0362	0.0000	0.0000	0.00E+00

196	7.00	0.000	0.351	0.0584	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.290	0.0574	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.293	0.0552	0.0204	0.0106	4.33E-02
199	0.00	0.000	0.291	0.0543	0.0708	0.0367	8.66E-02
200	0.00	0.000	0.289	0.0533	0.0388	0.0201	8.65E-02
201	0.00	0.000	0.288	0.0523	0.0111	0.0056	7.07E-02
202	0.00	0.000	0.286	0.0514	0.0000	0.0000	0.00E+00
203	0.00	0.000	0.284	0.0504	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.282	0.0495	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.281	0.0486	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.279	0.0476	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.277	0.0467	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.276	0.0458	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.274	0.0449	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.272	0.0440	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.271	0.0431	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.269	0.0422	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.268	0.0413	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.266	0.0404	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.265	0.0395	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.264	0.0386	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.262	0.0378	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.261	0.0369	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.259	0.0360	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.258	0.0352	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.257	0.0343	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.255	0.0335	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.254	0.0326	0.0000	0.0000	0.00E+00
224	2.00	0.000	0.325	0.0382	0.0000	0.0000	0.00E+00

225	1.00	0.000	0.324	0.0405	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.250	0.0396	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.249	0.0388	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.248	0.0380	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.247	0.0371	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.246	0.0363	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.245	0.0355	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.244	0.0347	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.242	0.0339	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.241	0.0331	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.240	0.0323	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.239	0.0315	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.238	0.0307	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.237	0.0299	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.236	0.0291	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.235	0.0283	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.234	0.0275	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.233	0.0268	0.0000	0.0000	0.00E+00
243	18.00	0.000	0.310	0.0857	0.0000	0.0000	0.00E+00
244	15.00	0.000	0.310	0.0890	0.1162	0.0602	6.51E-02
245	0.00	0.000	5.981	0.0454	0.1585	0.0821	8.69E-02
246	0.00	0.000	0.230	0.0436	0.5640	0.2922	8.80E-02
247	0.00	0.000	0.229	0.0429	1.7399	0.9016	9.14E-02
248	0.00	0.000	0.228	0.0421	3.0256	1.5677	9.51E-02
249	0.00	0.000	0.227	0.0414	4.0684	2.1081	9.81E-02
250	0.00	0.000	0.227	0.0406	4.0338	2.0901	9.80E-02
251	0.00	0.000	0.226	0.0399	3.4656	1.7957	9.64E-02
252	0.00	0.000	0.225	0.0391	2.9743	1.5412	9.50E-02
253	0.00	0.000	0.224	0.0384	2.5495	1.3210	9.37E-02

254	0.00	0.000	0.223	0.0376	2.1821	1.1307	9.27E-02
255	0.00	0.000	0.222	0.0369	1.8645	0.9661	9.18E-02
256	0.00	0.000	0.221	0.0361	1.5898	0.8238	9.10E-02
257	0.00	0.000	0.221	0.0354	1.3523	0.7007	9.03E-02
258	0.00	0.000	0.220	0.0347	1.1469	0.5943	8.97E-02
259	0.00	0.000	0.219	0.0339	0.9693	0.5023	8.92E-02
260	0.00	0.000	0.218	0.0332	0.8157	0.4227	8.87E-02
261	0.00	0.000	0.217	0.0325	0.6829	0.3539	8.84E-02
262	0.00	0.000	0.217	0.0318	0.5681	0.2944	8.80E-02
263	0.00	0.000	0.216	0.0310	0.4688	0.2429	8.77E-02
264	0.00	0.000	0.215	0.0303	0.3830	0.1984	8.75E-02
265	0.00	0.000	0.214	0.0296	0.3087	0.1600	8.73E-02
266	0.00	0.000	0.213	0.0289	0.2445	0.1267	8.71E-02
267	0.00	0.000	0.213	0.0282	0.1890	0.0979	8.69E-02
268	0.00	0.000	0.212	0.0275	0.1410	0.0731	8.68E-02
269	0.00	0.000	0.211	0.0268	0.0995	0.0516	8.67E-02
270	0.00	0.000	0.211	0.0261	0.0636	0.0330	8.66E-02
271	0.00	0.000	0.210	0.0254	0.0326	0.0169	8.65E-02
272	0.00	0.000	0.209	0.0247	0.0066	0.0032	5.22E-02
273	0.00	0.000	0.208	0.0240	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.208	0.0233	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.207	0.0226	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.206	0.0219	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.206	0.0212	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.205	0.0206	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.204	0.0199	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.204	0.0192	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.058	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	9.00	0.000	0.232	0.0482	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.181	0.0476	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.197	0.0470	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.197	0.0463	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.196	0.0457	0.0000	0.0000	0.00E+00
293	15.00	0.000	0.297	0.0860	0.0000	0.0000	5.88E-04
294	0.00	0.000	6.284	0.0474	0.0000	0.0000	0.00E+00
295	0.00	0.000	6.980	0.0241	0.4883	0.2530	8.78E-02
296	0.00	0.000	1.139	0.0190	1.6716	0.8661	9.12E-02
297	0.00	0.000	0.000	0.0190	1.8085	0.9371	9.16E-02
298	0.00	0.000	0.000	0.0190	1.5414	0.7987	9.08E-02
299	0.00	0.000	0.000	0.0190	1.3104	0.6790	9.02E-02
300	0.00	0.000	0.000	0.0190	1.1107	0.5755	8.96E-02
301	0.00	0.000	0.000	0.0190	0.9380	0.4860	8.91E-02
302	0.00	0.000	0.000	0.0190	0.7887	0.4087	8.87E-02
303	0.00	0.000	0.000	0.0190	0.6595	0.3417	8.83E-02
304	0.00	0.000	0.000	0.0190	0.5479	0.2839	8.80E-02
305	30.00	0.000	0.857	0.0959	0.4513	0.2339	8.77E-02
306	6.80	0.000	6.599	0.0480	0.3890	0.2015	8.75E-02
307	0.20	0.000	5.449	0.0305	0.9300	0.4819	8.91E-02
308	0.00	0.000	3.348	0.0194	2.0328	1.0533	9.23E-02
309	1.00	0.000	0.621	0.0207	3.2778	1.6984	9.58E-02
310	0.00	0.000	0.343	0.0195	4.2680	2.2115	9.87E-02
311	0.00	0.000	0.116	0.0191	4.1380	2.1441	9.83E-02

312	0.00	0.000	0.027	0.0190	3.5557	1.8424	9.66E-02
313	0.00	0.000	0.007	0.0190	3.0522	1.5815	9.52E-02
314	0.00	0.000	0.002	0.0190	2.6169	1.3560	9.39E-02
315	0.00	0.000	0.001	0.0190	2.2404	1.1609	9.29E-02
316	0.00	0.000	0.000	0.0190	1.9149	0.9922	9.19E-02
317	33.00	0.000	0.903	0.0894	1.6334	0.8463	9.11E-02
318	4.80	0.000	4.990	0.0442	1.5601	0.8084	9.09E-02
319	0.00	0.000	5.167	0.0270	1.5882	0.8230	9.10E-02
320	44.00	0.000	5.736	0.0887	2.7182	1.4085	9.42E-02
321	0.40	0.000	4.269	0.0376	3.4649	1.7953	9.64E-02
322	0.00	0.000	5.567	0.0190	3.5696	1.8496	9.67E-02
323	0.00	0.000	0.000	0.0190	4.9934	2.5874	1.01E-01
324	0.00	0.000	0.000	0.0190	6.2181	3.2220	1.04E-01
325	0.00	0.000	0.000	0.0190	7.1391	3.6992	1.07E-01
326	0.00	0.000	0.000	0.0190	7.8145	4.0492	1.09E-01
327	0.00	0.000	0.000	0.0190	8.2918	4.2965	1.10E-01
328	0.00	0.000	0.000	0.0190	8.6280	4.4707	1.11E-01
329	62.00	0.000	1.475	0.1078	8.0419	4.1670	1.10E-01
330	0.80	0.000	4.568	0.0482	7.0568	3.6565	1.07E-01
331	11.50	0.000	6.120	0.0661	6.7853	3.5159	1.06E-01
332	7.00	0.000	5.650	0.0584	7.8493	4.0672	1.09E-01
333	13.00	0.000	6.015	0.0649	8.3590	4.3313	1.10E-01
334	59.00	0.000	5.694	0.1036	8.1806	4.2388	1.10E-01
335	0.00	0.000	6.627	0.0395	7.1173	3.6879	1.07E-01
336	0.00	0.000	6.146	0.0190	7.6556	3.9668	1.08E-01
337	0.00	0.000	0.000	0.0190	9.6729	5.0121	1.14E-01
338	0.00	0.000	0.000	0.0190	11.1019	5.7526	1.18E-01
339	0.00	0.000	0.000	0.0190	12.0759	6.2572	1.21E-01
340	0.00	0.000	0.000	0.0190	12.6983	6.5798	1.23E-01

341	0.00	0.000	0.000	0.0190	13.0498	6.7618	1.24E-01
342	0.00	0.000	0.000	0.0190	13.1931	6.8361	1.24E-01
343	0.00	0.000	0.000	0.0190	13.1777	6.8282	1.24E-01
344	10.00	0.000	0.922	0.0493	13.0425	6.7581	1.24E-01
345	0.00	0.000	0.992	0.0460	12.8182	6.6418	1.23E-01
346	0.00	0.000	1.000	0.0426	12.5591	6.5076	1.23E-01
347	2.00	0.000	1.045	0.0458	11.4639	5.9401	1.19E-01
348	0.00	0.000	0.874	0.0429	9.8905	5.1249	1.15E-01
349	0.00	0.000	0.827	0.0401	8.5300	4.4199	1.11E-01
350	0.00	0.000	0.787	0.0375	7.3536	3.8103	1.08E-01
351	0.00	0.000	0.745	0.0350	6.3363	3.2832	1.05E-01
352	0.00	0.000	0.721	0.0326	5.4566	2.8274	1.02E-01
353	0.00	0.000	0.694	0.0302	4.6996	2.4352	9.99E-02
354	0.00	0.000	0.669	0.0279	4.0501	2.0986	9.81E-02
355	0.00	0.000	0.647	0.0257	3.4827	1.8046	9.64E-02
356	0.00	0.000	0.627	0.0236	2.9891	1.5488	9.50E-02
357	0.00	0.000	0.483	0.0220	2.5623	1.3277	9.38E-02
358	0.00	0.000	0.593	0.0200	2.1932	1.1364	9.27E-02
359	0.00	0.000	0.314	0.0190	1.8740	0.9711	9.18E-02
360	47.00	0.000	0.685	0.0928	1.6429	0.8513	9.11E-02
361	29.00	0.000	4.401	0.0802	1.5235	0.7894	9.08E-02
362	0.00	0.000	5.225	0.0426	1.6553	0.8577	9.12E-02
363	8.00	0.000	3.396	0.0563	2.1871	1.1333	9.27E-02
364	0.00	0.000	4.139	0.0425	3.7838	1.9606	9.73E-02
365	0.00	0.000	6.311	0.0215	5.4169	2.8068	1.02E-01

* = Frozen (air or soil)

Annual Totals for Year 26			
	mm*	cubic meters	percent
Precipitation	1,327.60	13,276.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	469.367	4,693.7	35.35
Drainage Collected from Layer 2	943.7481	9,437.5	71.09
Percolation/Leakage through Layer 3	29.427922	294.3	2.22
Average Head on Top of Layer 3	7.1538 (cm)	---	---
Change in Water Storage	-114.9428	-1,149.4	-8.66
Soil Water at Start of Year	1,023.5101	10,235.1	77.09
Soil Water at End of Year	908.5673	9,085.7	68.44
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 27

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.749	0.0190		6.6586	3.4502	1.06E-01
2			0.00	0.000	0.000	0.0190		7.5845	3.9300	1.08E-01
3			36.00	0.000	6.589	0.0962		8.2562	4.2780	1.10E-01
4			0.00	0.000	5.755	0.0444		8.5170	4.4131	1.11E-01
5			0.00	0.000	6.801	0.0200		7.7134	3.9968	1.09E-01
6	*Note: head c		0.00	0.000	0.229	0.0190		8.0164	4.1537	1.09E-01
7			1.00	0.000	0.634	0.0202		8.5761	4.4438	1.11E-01
8			0.00	0.000	0.276	0.0193		8.9690	4.6474	1.12E-01
9			0.00	0.000	0.076	0.0190		9.2224	4.7786	1.13E-01
10			9.00	0.000	1.496	0.0441		8.7842	4.5516	1.12E-01
11			0.00	0.000	1.335	0.0396		7.5734	3.9242	1.08E-01
12			0.40	0.000	1.396	0.0363		6.5263	3.3817	1.05E-01
13			0.00	0.000	1.167	0.0324		5.6210	2.9125	1.03E-01
14			0.00	0.000	1.048	0.0289		4.8381	2.5069	1.00E-01
15			0.00	0.000	0.983	0.0256		4.1611	2.1561	9.84E-02
16			0.00	0.000	0.901	0.0226		3.5757	1.8528	9.67E-02
17			0.00	0.000	0.813	0.0199		3.0695	1.5905	9.52E-02
18			0.00	0.000	0.275	0.0190		2.6318	1.3637	9.40E-02
19			1.20	0.000	0.144	0.0225		2.2533	1.1676	9.29E-02
20			0.00	0.000	0.314	0.0215		1.9260	0.9980	9.19E-02
21			0.00	0.000	0.476	0.0199		1.6430	0.8514	9.11E-02

22	0.00	0.000	0.162	0.0193	1.3983	0.7246	9.04E-02
23	0.00	0.000	0.078	0.0191	1.1867	0.6149	8.98E-02
24	9.00	0.000	0.540	0.0473	1.0037	0.5201	8.93E-02
25	0.00	0.000	0.579	0.0454	0.8455	0.4381	8.88E-02
26	110.00	0.000	0.689	0.1215	0.7134	0.3697	8.85E-02
27	137.00	0.000	4.787	0.1250	0.9810	0.5083	8.92E-02
28	15.00	0.000	4.529	0.0773	1.3894	0.7199	9.04E-02
29	13.00	0.000	5.577	0.0669	8.1444	4.2201	1.10E-01
30	0.00	0.000	5.506	0.0447	14.2418	7.3795	1.27E-01
31	0.00	0.000	6.566	0.0228	19.4699	10.0885	1.42E-01
32	0.00	0.000	0.859	0.0190	23.2121	12.0276	1.53E-01
33	0.00	0.000	0.000	0.0190	25.1491	13.0312	1.59E-01
34	0.00	0.000	0.000	0.0190	26.0854	13.5164	1.62E-01
35	74.00	0.000	4.212	0.1168	26.2971	13.6261	1.62E-01
36	3.00	0.000	5.899	0.0423	24.5058	12.6979	1.57E-01
37	0.00	0.000	6.005	0.0223	24.6810	12.7887	1.57E-01
38	0.00	0.000	0.846	0.0195	25.9890	13.4664	1.61E-01
39	11.00	0.000	4.337	0.0417	26.4690	13.7151	1.63E-01
40	0.00	0.000	4.577	0.0264	26.3806	13.6694	1.62E-01
41	0.00	0.000	2.035	0.0196	25.9060	13.4234	1.61E-01
42	0.00	0.000	0.143	0.0191	25.1721	13.0432	1.59E-01
43	0.00	0.000	0.043	0.0190	24.2703	12.5759	1.56E-01
44	0.00	0.000	0.000	0.0190	23.2663	12.0557	1.53E-01
45	0.00	0.000	0.000	0.0190	22.2080	11.5073	1.50E-01
46	0.00	0.000	0.000	0.0190	21.1296	10.9485	1.47E-01
47	24.00	0.000	1.189	0.0950	20.0555	10.3920	1.44E-01
48	4.00	0.000	4.546	0.0536	18.9675	9.8282	1.41E-01
49	3.00	0.000	6.743	0.0384	17.0332	8.8259	1.35E-01
50	0.00	0.000	5.367	0.0205	15.9489	8.2641	1.32E-01

51	0.00	0.000	0.345	0.0194	15.4251	7.9927	1.31E-01
52	0.00	0.000	0.086	0.0191	14.8761	7.7082	1.29E-01
53	0.00	0.000	0.022	0.0190	14.3356	7.4281	1.28E-01
54	0.00	0.000	0.007	0.0190	12.9700	6.7205	1.24E-01
55	0.00	0.000	0.000	0.0190	11.1929	5.7997	1.19E-01
56	0.00	0.000	0.000	0.0190	9.6561	5.0034	1.14E-01
57	0.00	0.000	0.000	0.0190	8.3273	4.3149	1.10E-01
58	0.00	0.000	0.000	0.0190	7.1783	3.7195	1.07E-01
59	2.00	0.000	0.429	0.0242	6.1847	3.2047	1.04E-01
60	0.00	0.000	0.346	0.0231	5.3256	2.7595	1.02E-01
61	0.00	0.000	0.529	0.0213	4.5826	2.3745	9.96E-02
62	0.00	0.000	0.440	0.0199	3.9402	2.0417	9.77E-02
63	0.00	0.000	0.213	0.0191	3.3847	1.7538	9.61E-02
64	0.00	0.000	0.033	0.0190	2.9044	1.5049	9.48E-02
65	0.00	0.000	0.008	0.0190	2.4890	1.2897	9.36E-02
66	0.00	0.000	0.003	0.0190	2.1298	1.1036	9.25E-02
67	0.00	0.000	0.000	0.0190	1.8193	0.9427	9.16E-02
68	0.00	0.000	0.000	0.0190	1.5507	0.8035	9.09E-02
69	0.00	0.000	0.000	0.0190	1.3185	0.6832	9.02E-02
70	0.00	0.000	0.000	0.0190	1.1177	0.5791	8.96E-02
71	0.00	0.000	0.000	0.0190	0.9440	0.4892	8.91E-02
72	0.00	0.000	0.000	0.0190	0.7939	0.4114	8.87E-02
73	17.00	0.000	0.506	0.0740	0.6640	0.3441	8.83E-02
74	0.00	0.000	0.479	0.0509	0.6265	0.3246	8.82E-02
75	0.00	0.000	0.515	0.0465	0.7037	0.3646	8.84E-02
76	0.00	0.000	0.505	0.0441	1.5653	0.8111	9.09E-02
77	0.00	0.000	0.495	0.0425	2.0309	1.0523	9.22E-02
78	0.00	0.000	0.486	0.0408	1.7337	0.8983	9.14E-02
79	0.00	0.000	0.477	0.0392	1.4767	0.7652	9.07E-02

80	0.00	0.000	0.469	0.0377	1.2545	0.6500	9.00E-02
81	0.00	0.000	0.461	0.0361	1.0623	0.5505	8.95E-02
82	0.00	0.000	0.454	0.0346	0.8962	0.4644	8.90E-02
83	0.00	0.000	0.447	0.0331	0.7525	0.3899	8.86E-02
84	0.00	0.000	0.440	0.0317	0.6283	0.3255	8.82E-02
85	1.00	0.000	0.493	0.0334	0.5208	0.2699	8.79E-02
86	0.00	0.000	0.428	0.0319	0.4279	0.2217	8.76E-02
87	0.00	0.000	0.422	0.0305	0.3476	0.1801	8.74E-02
88	0.00	0.000	0.416	0.0291	0.2781	0.1441	8.72E-02
89	0.00	0.000	0.369	0.0279	0.2181	0.1130	8.70E-02
90	0.00	0.000	0.395	0.0266	0.1661	0.0861	8.69E-02
91	0.00	0.000	0.400	0.0253	0.1212	0.0628	8.67E-02
92	1.50	0.000	0.451	0.0288	0.0824	0.0427	8.66E-02
93	15.00	0.000	0.446	0.0773	0.0488	0.0253	8.65E-02
94	0.00	0.000	0.386	0.0553	0.0198	0.0102	8.65E-02
95	0.50	0.000	0.437	0.0548	0.1178	0.0609	5.61E-02
96	0.00	0.000	0.378	0.0524	1.0664	0.5526	8.95E-02
97	0.00	0.000	0.374	0.0508	1.5717	0.8144	9.09E-02
98	0.00	0.000	0.370	0.0496	1.3428	0.6958	9.03E-02
99	0.00	0.000	0.366	0.0484	1.1387	0.5900	8.97E-02
100	0.00	0.000	0.362	0.0472	0.9622	0.4986	8.92E-02
101	0.00	0.000	0.359	0.0460	0.8096	0.4195	8.87E-02
102	0.00	0.000	0.355	0.0448	0.6776	0.3511	8.84E-02
103	0.00	0.000	0.352	0.0436	0.5635	0.2920	8.80E-02
104	0.00	0.000	0.348	0.0425	0.4648	0.2409	8.77E-02
105	0.00	0.000	0.345	0.0413	0.3795	0.1967	8.75E-02
106	0.00	0.000	0.342	0.0402	0.3057	0.1584	8.73E-02
107	0.00	0.000	0.339	0.0390	0.2419	0.1254	8.71E-02
108	6.00	0.000	0.389	0.0577	0.1868	0.0968	8.69E-02

109	0.00	0.000	6.209	0.0369	0.1391	0.0721	8.68E-02
110	0.00	0.000	0.333	0.0357	0.1122	0.0581	8.67E-02
111	0.00	0.000	0.330	0.0346	0.0746	0.0387	8.66E-02
112	62.00	0.000	0.381	0.1106	0.0421	0.0218	8.65E-02
113	11.00	0.000	5.374	0.0642	0.0197	0.0102	8.65E-02
114	1.00	0.000	4.591	0.0492	0.5950	0.3083	8.81E-02
115	21.00	0.000	5.188	0.0932	2.5372	1.3147	9.37E-02
116	220.00	0.000	5.285	0.1539	4.1110	2.1301	9.82E-02
117	6.00	0.000	5.528	0.0463	3.7742	1.9556	9.73E-02
118	0.00	0.000	6.073	0.0257	11.8443	6.1372	1.21E-01
119	0.00	0.000	1.506	0.0196	21.1456	10.9568	1.47E-01
120	0.00	0.000	0.137	0.0192	26.3646	13.6610	1.62E-01
121	0.00	0.000	0.034	0.0190	29.1226	15.0901	1.70E-01
122	0.00	0.000	0.009	0.0190	34.5677	15.5494	1.86E-01
123	0.00	0.000	0.003	0.0190	36.4470	15.5559	1.91E-01
124	0.00	0.000	0.000	0.0190	33.7931	15.5329	1.84E-01
125	0.00	0.000	0.000	0.0190	29.3043	15.1843	1.71E-01
126	0.00	0.000	0.000	0.0190	28.2585	14.6424	1.68E-01
127	0.00	0.000	0.000	0.0190	27.0616	14.0222	1.64E-01
128	4.50	0.000	0.556	0.0321	25.7831	13.3598	1.61E-01
129	11.00	0.000	0.784	0.0662	24.4721	12.6804	1.57E-01
130	33.00	0.000	1.054	0.0944	23.2009	12.0218	1.53E-01
131	146.00	0.000	3.636	0.1319	20.8876	10.8231	1.47E-01
132	13.00	0.000	4.839	0.0669	18.0778	9.3672	1.38E-01
133	4.00	0.000	5.924	0.0511	20.6760	10.7135	1.46E-01
134	0.00	0.000	5.323	0.0327	24.6437	12.7694	1.57E-01
135	0.00	0.000	4.004	0.0194	27.6612	14.3329	1.66E-01
136	0.00	0.000	0.083	0.0191	29.0094	15.0315	1.70E-01
137	0.00	0.000	0.021	0.0190	29.4044	15.2361	1.71E-01

138	0.00	0.000	0.005	0.0190	29.1746	15.1171	1.70E-01
139	0.00	0.000	0.002	0.0190	28.5268	14.7814	1.69E-01
140	0.00	0.000	0.000	0.0190	27.6055	14.3040	1.66E-01
141	0.00	0.000	0.000	0.0190	26.5130	13.7380	1.63E-01
142	0.00	0.000	0.000	0.0190	25.3222	13.1209	1.59E-01
143	0.00	0.000	0.000	0.0190	24.0850	12.4799	1.56E-01
144	0.00	0.000	0.000	0.0190	22.8380	11.8337	1.52E-01
145	0.00	0.000	0.000	0.0190	21.6070	11.1959	1.49E-01
146	0.00	0.000	0.000	0.0190	20.4096	10.5754	1.45E-01
147	0.00	0.000	0.000	0.0190	19.2576	9.9785	1.42E-01
148	0.00	0.000	0.000	0.0190	18.1583	9.4089	1.39E-01
149	0.00	0.000	0.000	0.0190	17.0374	8.8281	1.35E-01
150	0.00	0.000	0.000	0.0190	14.9610	7.7522	1.29E-01
151	0.00	0.000	0.000	0.0190	12.9145	6.6918	1.24E-01
152	0.00	0.000	0.000	0.0190	11.1449	5.7748	1.18E-01
153	0.00	0.000	0.000	0.0190	9.6147	4.9819	1.14E-01
154	0.00	0.000	0.000	0.0190	8.2915	4.2963	1.10E-01
155	0.00	0.000	0.000	0.0190	7.1473	3.7034	1.07E-01
156	0.00	0.000	0.000	0.0190	6.1579	3.1908	1.04E-01
157	0.00	0.000	0.000	0.0190	5.3024	2.7475	1.02E-01
158	45.00	0.000	0.631	0.0904	4.5626	2.3641	9.95E-02
159	0.00	0.000	5.430	0.0332	3.9294	2.0361	9.77E-02
160	0.00	0.000	3.868	0.0190	3.9701	2.0571	9.78E-02
161	0.00	0.000	0.000	0.0190	5.1452	2.6660	1.01E-01
162	0.00	0.000	0.000	0.0190	6.1912	3.2081	1.04E-01
163	0.00	0.000	0.000	0.0190	6.9782	3.6158	1.06E-01
164	0.00	0.000	0.000	0.0190	7.5538	3.9141	1.08E-01
165	0.00	0.000	0.000	0.0190	7.9433	4.1159	1.09E-01
166	0.00	0.000	0.000	0.0190	7.2290	3.7458	1.07E-01

167	0.00	0.000	0.000	0.0190	6.2286	3.2274	1.04E-01
168	0.00	0.000	0.000	0.0190	5.3635	2.7791	1.02E-01
169	0.00	0.000	0.000	0.0190	4.6154	2.3915	9.97E-02
170	0.00	0.000	0.000	0.0190	3.9686	2.0564	9.78E-02
171	0.00	0.000	0.000	0.0190	3.4093	1.7665	9.62E-02
172	0.00	0.000	0.000	0.0190	2.9256	1.5159	9.48E-02
173	0.00	0.000	0.000	0.0190	2.5074	1.2992	9.36E-02
174	0.00	0.000	0.000	0.0190	2.1457	1.1118	9.26E-02
175	0.00	0.000	0.000	0.0190	1.8330	0.9498	9.17E-02
176	0.00	0.000	0.000	0.0190	1.5626	0.8097	9.09E-02
177	0.00	0.000	0.000	0.0190	1.3287	0.6885	9.02E-02
178	0.00	0.000	0.000	0.0190	1.1265	0.5837	8.96E-02
179	0.00	0.000	0.000	0.0190	0.9517	0.4931	8.91E-02
180	0.00	0.000	0.000	0.0190	0.8005	0.4148	8.87E-02
181	0.00	0.000	0.000	0.0190	0.6698	0.3470	8.83E-02
182	0.00	0.000	0.000	0.0190	0.5567	0.2885	8.80E-02
183	0.00	0.000	0.000	0.0190	0.4590	0.2378	8.77E-02
184	3.00	0.000	0.290	0.0280	0.3744	0.1940	8.75E-02
185	7.00	0.000	0.424	0.0500	0.3014	0.1561	8.73E-02
186	46.00	0.000	0.592	0.1078	0.2382	0.1234	8.71E-02
187	2.00	0.000	4.990	0.0465	0.1936	0.1003	8.70E-02
188	0.00	0.000	4.634	0.0311	1.2097	0.6268	8.99E-02
189	0.00	0.000	3.526	0.0193	3.0046	1.5569	9.51E-02
190	0.00	0.000	0.070	0.0191	4.4443	2.3029	9.92E-02
191	0.00	0.000	0.017	0.0190	5.5579	2.8799	1.02E-01
192	0.00	0.000	0.004	0.0190	6.4055	3.3191	1.05E-01
193	0.00	0.000	0.001	0.0190	7.0364	3.6460	1.07E-01
194	0.00	0.000	0.000	0.0190	7.3617	3.8145	1.08E-01
195	0.00	0.000	0.000	0.0190	6.5222	3.3795	1.05E-01

196	0.00	0.000	0.000	0.0190	5.6174	2.9107	1.03E-01
197	0.00	0.000	0.000	0.0190	4.8350	2.5053	1.00E-01
198	0.00	0.000	0.000	0.0190	4.1584	2.1547	9.84E-02
199	0.00	0.000	0.000	0.0190	3.5734	1.8516	9.67E-02
200	0.00	0.000	0.000	0.0190	3.0675	1.5895	9.52E-02
201	0.00	0.000	0.000	0.0190	2.6301	1.3628	9.40E-02
202	3.00	0.000	0.421	0.0276	2.2518	1.1668	9.29E-02
203	0.00	0.000	0.346	0.0264	1.9247	0.9973	9.19E-02
204	0.00	0.000	0.529	0.0247	1.6419	0.8508	9.11E-02
205	0.00	0.000	0.505	0.0230	1.3973	0.7240	9.04E-02
206	0.00	0.000	0.456	0.0215	1.1859	0.6145	8.98E-02
207	0.00	0.000	0.483	0.0199	1.0030	0.5197	8.93E-02
208	0.00	0.000	0.214	0.0192	0.8449	0.4378	8.88E-02
209	0.00	0.000	0.036	0.0190	0.7081	0.3669	8.84E-02
210	0.00	0.000	0.010	0.0190	0.5899	0.3057	8.81E-02
211	0.00	0.000	0.000	0.0190	0.4877	0.2527	8.78E-02
212	0.00	0.000	0.000	0.0190	0.3992	0.2069	8.75E-02
213	0.00	0.000	0.000	0.0190	0.3228	0.1673	8.73E-02
214	0.00	0.000	0.000	0.0190	0.2567	0.1330	8.71E-02
215	0.00	0.000	0.000	0.0190	0.1995	0.1034	8.70E-02
216	0.00	0.000	0.000	0.0190	0.1501	0.0778	8.68E-02
217	0.00	0.000	0.000	0.0190	0.1074	0.0556	8.67E-02
218	0.00	0.000	0.000	0.0190	0.0704	0.0365	8.66E-02
219	0.00	0.000	0.000	0.0190	0.0384	0.0199	8.65E-02
220	0.40	0.000	0.099	0.0200	0.0108	0.0055	6.96E-02
221	0.00	0.000	0.056	0.0198	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.145	0.0193	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.067	0.0191	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.024	0.0190	0.0000	0.0000	0.00E+00

225	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.002	0.0190	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.0190	0.0000	0.0000	3.43E-07
229	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	1.00	0.000	0.090	0.0220	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.155	0.0215	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.213	0.0208	0.0000	0.0000	0.00E+00
243	4.50	0.000	0.302	0.0348	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.284	0.0339	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.293	0.0329	0.0000	0.0000	0.00E+00
246	21.00	0.000	0.350	0.0982	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.348	0.0577	0.2681	0.1389	8.72E-02
248	0.00	0.000	0.345	0.0539	0.7481	0.3876	8.86E-02
249	0.00	0.000	0.342	0.0515	1.7326	0.8978	9.14E-02
250	0.00	0.000	0.339	0.0502	2.7226	1.4107	9.42E-02
251	0.00	0.000	0.336	0.0491	2.8155	1.4589	9.45E-02
252	0.00	0.000	0.333	0.0480	2.4122	1.2499	9.33E-02
253	0.00	0.000	0.330	0.0469	2.0634	1.0692	9.23E-02

254	0.00	0.000	0.328	0.0458	1.7618	0.9129	9.15E-02
255	0.00	0.000	0.325	0.0447	1.5010	0.7778	9.07E-02
256	0.00	0.000	0.322	0.0436	1.2755	0.6609	9.01E-02
257	0.00	0.000	0.320	0.0426	1.0805	0.5599	8.95E-02
258	0.00	0.000	0.317	0.0415	0.9119	0.4725	8.90E-02
259	0.00	0.000	0.315	0.0405	0.7661	0.3970	8.86E-02
260	0.00	0.000	0.312	0.0394	0.6400	0.3316	8.82E-02
261	0.00	0.000	0.310	0.0384	0.5310	0.2751	8.79E-02
262	0.00	0.000	0.308	0.0374	0.4367	0.2263	8.77E-02
263	0.00	0.000	0.306	0.0363	0.3552	0.1841	8.74E-02
264	0.00	0.000	0.304	0.0353	0.2847	0.1475	8.72E-02
265	0.00	0.000	0.301	0.0343	0.2238	0.1159	8.70E-02
266	0.00	0.000	0.299	0.0333	0.1711	0.0886	8.69E-02
267	0.00	0.000	0.297	0.0323	0.1255	0.0650	8.68E-02
268	0.00	0.000	0.295	0.0314	0.0861	0.0446	8.66E-02
269	0.00	0.000	0.293	0.0304	0.0520	0.0269	8.65E-02
270	0.00	0.000	0.291	0.0294	0.0225	0.0117	8.65E-02
271	0.00	0.000	0.289	0.0284	0.0015	0.0008	2.12E-02
272	14.00	0.000	0.357	0.0739	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.286	0.0601	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.284	0.0559	0.2521	0.1306	6.55E-02
275	0.00	0.000	0.282	0.0550	1.0707	0.5548	8.95E-02
276	0.00	0.000	0.281	0.0540	1.0285	0.5329	8.94E-02
277	0.00	0.000	0.279	0.0531	0.8669	0.4492	8.89E-02
278	0.00	0.000	0.277	0.0522	0.7272	0.3768	8.85E-02
279	0.00	0.000	0.276	0.0513	0.6064	0.3142	8.81E-02
280	0.00	0.000	0.274	0.0503	0.5019	0.2601	8.78E-02
281	0.00	0.000	0.272	0.0494	0.4116	0.2133	8.76E-02
282	0.00	0.000	0.271	0.0485	0.3334	0.1728	8.74E-02

283	0.00	0.000	0.269	0.0476	0.2659	0.1378	8.72E-02
284	0.00	0.000	0.268	0.0467	0.2075	0.1075	8.70E-02
285	0.00	0.000	0.266	0.0459	0.1570	0.0813	8.69E-02
286	0.00	0.000	0.265	0.0450	0.1133	0.0587	8.67E-02
287	0.00	0.000	0.264	0.0435	0.1097	0.0569	8.67E-02
288	0.00	0.000	0.262	0.0426	0.0830	0.0430	8.66E-02
289	0.00	0.000	0.261	0.0418	0.0494	0.0256	8.65E-02
290	0.00	0.000	0.259	0.0409	0.0203	0.0105	8.65E-02
291	0.00	0.000	0.258	0.0400	0.0010	0.0003	1.41E-02
292	0.00	0.000	0.257	0.0392	0.0000	0.0000	0.00E+00
293	5.00	0.000	0.336	0.0547	0.0000	0.0000	0.00E+00
294	40.00	0.000	0.335	0.1037	0.0000	0.0000	0.00E+00
295	2.00	0.000	6.845	0.0460	0.0182	0.0094	2.17E-02
296	0.00	0.000	6.685	0.0238	0.9701	0.5027	8.92E-02
297	0.00	0.000	1.389	0.0191	2.6764	1.3868	9.41E-02
298	0.00	0.000	0.028	0.0190	4.0645	2.1061	9.81E-02
299	0.00	0.000	0.007	0.0190	5.1453	2.6661	1.01E-01
300	12.70	0.000	3.510	0.0496	5.9744	3.0957	1.04E-01
301	20.00	0.000	6.569	0.0848	6.5942	3.4168	1.05E-01
302	0.00	0.000	6.980	0.0364	6.1280	3.1753	1.04E-01
303	0.00	0.000	5.219	0.0190	5.5480	2.8747	1.02E-01
304	0.00	0.000	0.000	0.0190	6.0180	3.1183	1.04E-01
305	0.00	0.000	0.000	0.0190	6.3083	3.2687	1.05E-01
306	2.00	0.000	0.778	0.0231	5.4977	2.8487	1.02E-01
307	0.00	0.000	0.677	0.0208	4.7315	2.4517	1.00E-01
308	0.00	0.000	0.476	0.0192	4.0689	2.1084	9.81E-02
309	0.00	0.000	0.052	0.0191	3.4960	1.8115	9.65E-02
310	0.00	0.000	0.013	0.0190	3.0006	1.5548	9.50E-02
311	0.00	0.000	0.003	0.0190	2.5722	1.3328	9.38E-02

312	0.00	0.000	0.001	0.0190	2.2018	1.1409	9.27E-02
313	0.00	0.000	0.000	0.0190	1.8815	0.9749	9.18E-02
314	0.00	0.000	0.000	0.0190	1.6045	0.8314	9.10E-02
315	0.00	0.000	0.000	0.0190	1.3650	0.7073	9.03E-02
316	0.00	0.000	0.000	0.0190	1.1579	0.6000	8.97E-02
317	0.00	0.000	0.000	0.0190	0.9788	0.5072	8.92E-02
318	0.00	0.000	0.000	0.0190	0.8240	0.4269	8.88E-02
319	0.00	0.000	0.000	0.0190	0.6901	0.3576	8.84E-02
320	2.00	0.000	0.356	0.0245	0.5743	0.2976	8.81E-02
321	0.00	0.000	0.262	0.0236	0.4741	0.2457	8.78E-02
322	0.00	0.000	0.409	0.0222	0.3876	0.2008	8.75E-02
323	0.00	0.000	0.398	0.0209	0.3127	0.1620	8.73E-02
324	0.00	0.000	0.312	0.0199	0.2480	0.1285	8.71E-02
325	21.00	0.000	0.550	0.0880	0.1920	0.0995	8.70E-02
326	41.00	0.000	0.637	0.0877	0.1436	0.0744	8.68E-02
327	18.00	0.000	6.167	0.0804	0.1980	0.1026	8.70E-02
328	0.00	0.000	6.330	0.0471	0.6643	0.3442	8.83E-02
329	0.00	0.000	5.584	0.0255	1.6284	0.8438	9.11E-02
330	0.00	0.000	1.911	0.0191	3.5065	1.8169	9.65E-02
331	5.00	0.000	2.561	0.0273	5.1288	2.6576	1.01E-01
332	53.00	0.000	5.694	0.1007	6.3796	3.3057	1.05E-01
333	1.00	0.000	5.785	0.0400	6.6173	3.4288	1.05E-01
334	3.00	0.000	4.882	0.0337	6.4348	3.3342	1.05E-01
335	33.00	0.000	5.549	0.0897	7.9135	4.1005	1.09E-01
336	0.00	0.000	5.521	0.0425	8.4866	4.3974	1.11E-01
337	0.00	0.000	5.631	0.0237	8.1245	4.2098	1.10E-01
338	0.00	0.000	1.401	0.0191	9.1782	4.7558	1.13E-01
339	14.00	0.000	4.353	0.0512	10.2066	5.2886	1.16E-01
340	0.00	0.000	5.125	0.0341	10.9070	5.6515	1.18E-01

341	0.00	0.000	4.248	0.0200	11.3505	5.8813	1.19E-01
342	0.00	0.000	0.222	0.0190	11.5869	6.0039	1.20E-01
343	0.00	0.000	0.000	0.0190	11.6645	6.0441	1.20E-01
344	0.00	0.000	0.000	0.0190	11.6356	6.0291	1.20E-01
345	0.00	0.000	0.000	0.0190	11.5303	5.9746	1.20E-01
346	15.00	0.000	1.185	0.0651	10.7180	5.5536	1.17E-01
347	0.00	0.000	5.725	0.0460	9.2455	4.7907	1.13E-01
348	0.00	0.000	1.366	0.0414	7.9723	4.1309	1.09E-01
349	0.00	0.000	1.203	0.0374	6.8713	3.5604	1.06E-01
350	0.00	0.000	1.088	0.0338	5.9192	3.0671	1.03E-01
351	8.00	0.000	1.098	0.0568	5.0960	2.6405	1.01E-01
352	55.00	0.000	1.030	0.1044	4.5356	2.3502	9.95E-02
353	2.00	0.000	5.108	0.0442	4.0460	2.0965	9.81E-02
354	0.00	0.000	4.522	0.0288	4.1784	2.1651	9.84E-02
355	0.00	0.000	2.918	0.0191	5.5636	2.8828	1.02E-01
356	0.00	0.000	0.020	0.0190	6.8851	3.5676	1.06E-01
357	0.00	0.000	0.005	0.0190	7.8670	4.0764	1.09E-01
358	0.00	0.000	0.001	0.0190	8.5763	4.4439	1.11E-01
359	44.00	0.000	3.990	0.0854	9.0671	4.6982	1.13E-01
360	2.00	0.000	3.987	0.0294	9.0143	4.6709	1.12E-01
361	0.00	0.000	2.606	0.0201	8.5651	4.4381	1.11E-01
362	0.00	0.000	0.237	0.0193	9.3447	4.8421	1.13E-01
363	0.00	0.000	0.067	0.0190	9.9705	5.1663	1.15E-01
364	0.00	0.000	0.009	0.0190	10.3800	5.3785	1.16E-01
365	0.00	0.000	0.002	0.0190	10.6135	5.4995	1.17E-01

* = Frozen (air or soil)

Annual Totals for Year 27			
	mm*	cubic meters	percent
Precipitation	1,571.70	15,717.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	385.197	3,852.0	24.51
Drainage Collected from Layer 2	1,159.5416	11,595.4	73.78
Percolation/Leakage through Layer 3	35.073225	350.7	2.23
Average Head on Top of Layer 3	6.1715 (cm)	---	---
Change in Water Storage	-8.1120	-81.1	-0.52
Soil Water at Start of Year	908.5673	9,085.7	57.81
Soil Water at End of Year	900.4554	9,004.6	57.29
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 28

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			12.00	0.000	3.171	0.0484		10.7090	5.5490	1.17E-01
2			10.00	0.000	4.057	0.0644		10.7083	5.5486	1.17E-01
3			0.00	0.000	5.131	0.0458		10.0430	5.2039	1.15E-01
4			0.00	0.000	6.520	0.0241		8.7941	4.5568	1.12E-01
5			0.00	0.000	1.522	0.0190		7.5820	3.9287	1.08E-01
6	*Note: head c		46.00	0.000	4.427	0.0870		6.5338	3.3855	1.05E-01
7			0.00	0.000	5.726	0.0378		5.7570	2.9830	1.03E-01
8			0.00	0.000	5.101	0.0207		5.7994	3.0050	1.03E-01
9			4.00	0.000	3.229	0.0229		6.6143	3.4273	1.05E-01
10			0.00	0.000	0.941	0.0197		7.3400	3.8033	1.08E-01
11			0.00	0.000	0.171	0.0192		7.8841	4.0852	1.09E-01
12			0.00	0.000	0.042	0.0190		8.2873	4.2941	1.10E-01
13			62.00	0.000	4.132	0.1038		7.7797	4.0311	1.09E-01
14			35.00	0.000	2.583	0.0851		6.8300	3.5390	1.06E-01
15			155.00	0.000	4.390	0.1280		5.8835	3.0486	1.03E-01
16			72.00	0.000	4.252	0.0974		5.0651	2.6245	1.01E-01
17			5.00	0.000	3.614	0.0610		5.6621	2.9339	1.03E-01
18			31.00	0.000	4.144	0.0936		15.6342	8.1010	1.31E-01
19			0.00	0.000	5.171	0.0378		22.0500	11.4254	1.50E-01
20			0.00	0.000	5.654	0.0190		27.3423	14.1677	1.65E-01
21			0.00	0.000	0.000	0.0190		48.1475	15.5761	2.25E-01

22	0.00	0.000	0.000	0.0190	94.9011	16.2170	3.60E-01
23	0.00	0.000	0.000	0.0190	194.4537	17.7417	6.46E-01
24	0.00	0.000	0.000	0.0190	89.6701	16.0255	3.45E-01
25	0.00	0.000	0.000	0.0190	59.2326	15.5953	2.57E-01
26	0.00	0.000	0.000	0.0190	56.5020	15.5905	2.49E-01
27	31.00	0.000	1.296	0.0952	52.1737	15.5831	2.37E-01
28	3.00	0.000	4.833	0.0379	43.3557	15.5678	2.11E-01
29	24.00	0.000	6.275	0.0947	31.9227	15.4124	1.78E-01
30	0.00	0.000	5.884	0.0455	28.4768	14.7555	1.68E-01
31	10.00	0.000	5.831	0.0594	26.1019	13.5249	1.62E-01
32	35.00	0.000	5.085	0.1012	25.3320	13.1260	1.59E-01
33	18.00	0.000	6.851	0.0768	23.0991	11.9690	1.53E-01
34	4.00	0.000	6.464	0.0548	20.9461	10.8534	1.47E-01
35	102.00	0.000	6.174	0.1198	19.9005	10.3116	1.44E-01
36	71.00	0.000	4.958	0.1001	18.4322	9.5508	1.39E-01
37	70.00	0.000	6.300	0.0991	16.1000	8.3423	1.33E-01
38	0.00	0.000	5.886	0.0492	15.4951	8.0289	1.31E-01
39	4.00	0.000	6.126	0.0421	25.6178	13.2741	1.60E-01
40	0.00	0.000	5.756	0.0229	103.6481	16.5601	3.85E-01
41	0.00	0.000	1.105	0.0192	243.6403	19.1117	7.88E-01
42	0.00	0.000	0.051	0.0190	222.9481	18.5332	7.28E-01
43	0.00	0.000	0.010	0.0190	202.9129	17.9899	6.71E-01
44	0.00	0.000	0.003	0.0190	123.2578	16.5516	4.41E-01
45	0.00	0.000	0.000	0.0190	60.0143	15.5966	2.59E-01
46	0.00	0.000	0.000	0.0190	58.1277	15.5934	2.54E-01
47	10.00	0.000	0.960	0.0491	54.4637	15.5870	2.43E-01
48	17.00	0.000	1.139	0.0903	49.3922	15.5783	2.29E-01
49	3.00	0.000	3.709	0.0551	39.5424	15.5613	2.00E-01
50	23.00	0.000	6.254	0.0953	28.6498	14.8452	1.69E-01

51	4.00	0.000	5.256	0.0549	26.6835	13.8263	1.63E-01
52	0.00	0.000	4.878	0.0373	23.6536	12.2563	1.55E-01
53	0.00	0.000	3.866	0.0244	22.8472	11.8385	1.52E-01
54	0.00	0.000	1.581	0.0191	22.3406	11.5760	1.51E-01
55	1.50	0.000	0.584	0.0222	21.6660	11.2264	1.49E-01
56	1.00	0.000	1.277	0.0213	20.8823	10.8204	1.47E-01
57	0.00	0.000	0.589	0.0193	20.0333	10.3805	1.44E-01
58	0.00	0.000	0.065	0.0191	19.1512	9.9233	1.42E-01
59	0.00	0.000	0.016	0.0190	18.2592	9.4612	1.39E-01
60	0.00	0.000	0.004	0.0190	17.3745	9.0028	1.36E-01
61	0.00	0.000	0.001	0.0190	16.5090	8.5543	1.34E-01
62	0.00	0.000	0.000	0.0190	15.4472	8.0041	1.31E-01
63	33.00	0.000	1.033	0.0897	13.4283	6.9580	1.25E-01
64	3.00	0.000	4.020	0.0407	11.7593	6.0932	1.20E-01
65	2.00	0.000	4.502	0.0291	10.3870	5.3821	1.16E-01
66	7.00	0.000	4.015	0.0390	10.1299	5.2489	1.16E-01
67	53.00	0.000	6.161	0.1111	10.3859	5.3815	1.16E-01
68	0.00	0.000	6.046	0.0382	9.8707	5.1146	1.15E-01
69	7.00	0.000	6.774	0.0376	9.6205	4.9850	1.14E-01
70	2.00	0.000	6.064	0.0241	10.3010	5.3376	1.16E-01
71	0.00	0.000	1.125	0.0203	10.8913	5.6434	1.18E-01
72	0.00	0.000	0.308	0.0193	11.2550	5.8319	1.19E-01
73	0.00	0.000	0.063	0.0191	11.4393	5.9274	1.19E-01
74	0.00	0.000	0.020	0.0190	11.4842	5.9507	1.19E-01
75	0.00	0.000	0.001	0.0190	11.4219	5.9183	1.19E-01
76	0.00	0.000	0.000	0.0190	11.1122	5.7579	1.18E-01
77	0.00	0.000	0.000	0.0190	9.7119	5.0323	1.14E-01
78	0.00	0.000	0.000	0.0190	8.3755	4.3399	1.11E-01
79	0.00	0.000	0.000	0.0190	7.2200	3.7411	1.07E-01

80	7.00	0.000	0.458	0.0408	6.2208	3.2233	1.04E-01
81	2.00	0.000	0.806	0.0448	5.3567	2.7756	1.02E-01
82	2.00	0.000	0.849	0.0486	4.6096	2.3885	9.97E-02
83	0.00	0.000	0.806	0.0459	3.9635	2.0537	9.78E-02
84	0.00	0.000	0.773	0.0434	3.4049	1.7643	9.62E-02
85	0.00	0.000	0.728	0.0409	2.9218	1.5140	9.48E-02
86	0.00	0.000	0.702	0.0386	2.5041	1.2975	9.36E-02
87	0.00	0.000	0.694	0.0363	2.1429	1.1103	9.26E-02
88	0.00	0.000	0.669	0.0341	1.8305	0.9485	9.17E-02
89	0.00	0.000	0.647	0.0319	1.5604	0.8086	9.09E-02
90	0.00	0.000	0.627	0.0298	1.3269	0.6875	9.02E-02
91	0.00	0.000	0.609	0.0278	1.1250	0.5829	8.96E-02
92	0.00	0.000	0.593	0.0258	0.9503	0.4924	8.91E-02
93	61.00	0.000	0.623	0.1117	0.9202	0.4768	8.90E-02
94	2.00	0.000	6.531	0.0330	0.9467	0.4906	8.91E-02
95	62.00	0.000	6.929	0.1108	1.4462	0.7494	9.06E-02
96	0.00	0.000	6.111	0.0380	2.2392	1.1603	9.28E-02
97	8.00	0.000	7.157	0.0408	3.4156	1.7698	9.62E-02
98	0.00	0.000	5.475	0.0226	6.1105	3.1662	1.04E-01
99	0.00	0.000	0.803	0.0199	8.1131	4.2039	1.10E-01
100	0.00	0.000	0.202	0.0192	9.5676	4.9575	1.14E-01
101	0.00	0.000	0.050	0.0190	10.5936	5.4892	1.17E-01
102	0.00	0.000	0.013	0.0190	11.2847	5.8472	1.19E-01
103	0.00	0.000	0.000	0.0190	11.7141	6.0698	1.20E-01
104	0.00	0.000	0.000	0.0190	11.9400	6.1868	1.21E-01
105	0.00	0.000	0.000	0.0190	12.0084	6.2223	1.21E-01
106	0.00	0.000	0.000	0.0190	11.9559	6.1950	1.21E-01
107	11.00	0.000	0.776	0.0531	11.8115	6.1202	1.20E-01
108	10.00	0.000	0.958	0.0682	11.2895	5.8498	1.19E-01

109	0.00	0.000	5.584	0.0451	10.0308	5.1976	1.15E-01
110	0.00	0.000	0.931	0.0420	9.3844	4.8626	1.13E-01
111	0.00	0.000	0.874	0.0391	8.5907	4.4514	1.11E-01
112	0.00	0.000	0.827	0.0363	7.4060	3.8375	1.08E-01
113	0.00	0.000	0.787	0.0337	6.3817	3.3067	1.05E-01
114	0.00	0.000	0.752	0.0312	5.4959	2.8477	1.02E-01
115	0.00	0.000	0.721	0.0288	4.7299	2.4508	1.00E-01
116	0.00	0.000	0.694	0.0265	4.0676	2.1076	9.81E-02
117	0.00	0.000	0.669	0.0243	3.4948	1.8109	9.65E-02
118	0.00	0.000	0.647	0.0221	2.9996	1.5543	9.50E-02
119	0.00	0.000	0.627	0.0200	2.5713	1.3324	9.38E-02
120	1.00	0.000	0.403	0.0220	2.2010	1.1405	9.27E-02
121	0.00	0.000	0.248	0.0212	1.8808	0.9746	9.18E-02
122	0.00	0.000	0.371	0.0199	1.6039	0.8311	9.10E-02
123	0.00	0.000	0.217	0.0192	1.3645	0.7070	9.03E-02
124	0.00	0.000	0.049	0.0191	1.1575	0.5998	8.97E-02
125	0.00	0.000	0.012	0.0190	0.9784	0.5070	8.92E-02
126	0.00	0.000	0.003	0.0190	0.8236	0.4268	8.88E-02
127	0.00	0.000	0.001	0.0190	0.6898	0.3574	8.84E-02
128	0.00	0.000	0.000	0.0190	0.5740	0.2974	8.81E-02
129	0.00	0.000	0.000	0.0190	0.4739	0.2456	8.78E-02
130	0.00	0.000	0.000	0.0190	0.3874	0.2007	8.75E-02
131	0.00	0.000	0.000	0.0190	0.3125	0.1619	8.73E-02
132	0.00	0.000	0.000	0.0190	0.2478	0.1284	8.71E-02
133	0.00	0.000	0.000	0.0190	0.1919	0.0994	8.70E-02
134	0.00	0.000	0.000	0.0190	0.1435	0.0743	8.68E-02
135	0.00	0.000	0.000	0.0190	0.1016	0.0527	8.67E-02
136	0.00	0.000	0.000	0.0190	0.0654	0.0339	8.66E-02
137	0.00	0.000	0.000	0.0190	0.0342	0.0177	8.65E-02

138	0.00	0.000	0.000	0.0190	0.0077	0.0038	5.69E-02
139	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
159	1.00	0.000	0.078	0.0221	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.141	0.0216	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.190	0.0210	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.222	0.0202	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.220	0.0195	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.082	0.0192	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.051	0.0191	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.013	0.0190	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
168	2.00	0.000	0.183	0.0251	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.131	0.0246	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.208	0.0239	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.207	0.0232	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.205	0.0226	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.204	0.0219	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.203	0.0212	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.196	0.0205	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.217	0.0198	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.211	0.0191	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.028	0.0190	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.007	0.0190	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.001	0.0190	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
182	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
184	6.00	0.000	0.172	0.0384	0.0000	0.0000	0.00E+00
185	45.00	0.000	0.334	0.1091	0.0449	0.0233	2.17E-02
186	4.00	0.000	5.783	0.0463	0.1556	0.0806	8.68E-02
187	0.00	0.000	5.225	0.0284	1.1127	0.5765	8.96E-02
188	0.00	0.000	2.746	0.0192	2.7668	1.4337	9.44E-02
189	0.00	0.000	0.063	0.0190	4.1879	2.1700	9.85E-02
190	0.00	0.000	0.008	0.0190	5.2943	2.7433	1.02E-01
191	0.00	0.000	0.003	0.0190	6.1406	3.1818	1.04E-01
192	0.00	0.000	0.000	0.0190	6.7745	3.5103	1.06E-01
193	0.00	0.000	0.000	0.0190	6.8059	3.5265	1.06E-01
194	0.00	0.000	0.000	0.0190	5.8627	3.0378	1.03E-01
195	0.00	0.000	0.000	0.0190	5.0471	2.6152	1.01E-01

196	0.00	0.000	0.000	0.0190	4.3418	2.2498	9.89E-02
197	1.00	0.000	0.138	0.0219	3.7320	1.9338	9.71E-02
198	0.00	0.000	0.389	0.0206	3.2047	1.6605	9.56E-02
199	0.00	0.000	0.383	0.0193	2.7487	1.4243	9.43E-02
200	0.00	0.000	0.067	0.0191	2.3544	1.2199	9.32E-02
201	0.00	0.000	0.017	0.0190	2.0134	1.0433	9.22E-02
202	0.00	0.000	0.004	0.0190	1.7186	0.8905	9.13E-02
203	0.00	0.000	0.001	0.0190	1.4637	0.7584	9.06E-02
204	0.00	0.000	0.000	0.0190	1.2432	0.6442	9.00E-02
205	4.00	0.000	0.334	0.0312	1.0526	0.5454	8.94E-02
206	0.00	0.000	0.435	0.0298	0.8877	0.4600	8.90E-02
207	10.00	0.000	0.571	0.0612	0.7452	0.3861	8.85E-02
208	0.00	0.000	0.590	0.0570	0.7064	0.3660	8.84E-02
209	0.00	0.000	0.593	0.0550	0.6795	0.3521	8.84E-02
210	0.00	0.000	0.577	0.0531	0.5652	0.2928	8.80E-02
211	0.00	0.000	0.563	0.0512	0.4663	0.2416	8.77E-02
212	0.00	0.000	0.550	0.0494	0.3807	0.1973	8.75E-02
213	0.00	0.000	0.537	0.0476	0.3068	0.1590	8.73E-02
214	1.00	0.000	0.583	0.0490	0.2429	0.1258	8.71E-02
215	7.00	0.000	0.572	0.0635	0.1876	0.0972	8.69E-02
216	0.00	0.000	0.505	0.0591	0.2899	0.1502	8.72E-02
217	0.00	0.000	0.495	0.0566	0.8566	0.4439	8.89E-02
218	0.00	0.000	0.486	0.0550	0.7566	0.3920	8.86E-02
219	0.00	0.000	0.477	0.0534	0.6318	0.3274	8.82E-02
220	0.00	0.000	0.469	0.0518	0.5239	0.2715	8.79E-02
221	0.00	0.000	0.461	0.0503	0.4306	0.2231	8.76E-02
222	0.00	0.000	0.454	0.0488	0.3499	0.1813	8.74E-02
223	0.00	0.000	0.447	0.0473	0.2801	0.1452	8.72E-02
224	0.00	0.000	0.440	0.0458	0.2198	0.1139	8.70E-02

225	0.00	0.000	0.434	0.0444	0.1676	0.0869	8.69E-02
226	0.00	0.000	0.428	0.0429	0.1225	0.0635	8.68E-02
227	0.00	0.000	0.422	0.0415	0.0835	0.0433	8.66E-02
228	0.00	0.000	0.416	0.0401	0.0498	0.0258	8.65E-02
229	0.00	0.000	0.411	0.0388	0.0206	0.0107	8.65E-02
230	0.00	0.000	0.405	0.0374	0.0011	0.0004	1.52E-02
231	0.00	0.000	0.400	0.0361	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.396	0.0341	0.0333	0.0173	6.49E-02
233	0.00	0.000	0.391	0.0328	0.0194	0.0100	8.65E-02
234	0.00	0.000	0.386	0.0315	0.0008	0.0002	1.13E-02
235	0.00	0.000	0.382	0.0303	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.378	0.0290	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.374	0.0278	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.370	0.0265	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.366	0.0253	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.362	0.0241	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.359	0.0225	0.0219	0.0113	6.49E-02
242	0.00	0.000	0.355	0.0213	0.0068	0.0033	5.30E-02
243	0.00	0.000	0.352	0.0201	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.330	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	10.00	0.000	0.291	0.0514	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.296	0.0504	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.322	0.0492	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.320	0.0480	0.0015	0.0007	4.19E-02
255	0.00	0.000	0.317	0.0466	0.0106	0.0055	8.64E-02
256	0.00	0.000	0.315	0.0455	0.0056	0.0028	4.76E-02
257	0.00	0.000	0.312	0.0445	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.310	0.0434	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.308	0.0424	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.306	0.0414	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.304	0.0404	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.301	0.0394	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.299	0.0384	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.297	0.0374	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.295	0.0364	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.293	0.0354	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.291	0.0345	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.289	0.0335	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.288	0.0325	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.286	0.0316	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.284	0.0306	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.282	0.0297	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.281	0.0288	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.279	0.0278	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.277	0.0269	0.0000	0.0000	0.00E+00
276	9.00	0.000	0.359	0.0557	0.0000	0.0000	0.00E+00
277	15.00	0.000	0.358	0.0856	0.0000	0.0000	0.00E+00
278	0.00	0.000	6.334	0.0471	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.272	0.0437	0.4385	0.2272	8.77E-02
280	9.00	0.000	0.357	0.0719	1.5189	0.7870	9.08E-02
281	0.00	0.000	5.735	0.0528	2.5699	1.3316	9.38E-02
282	0.00	0.000	6.238	0.0320	2.3804	1.2334	9.33E-02

283	0.00	0.000	3.898	0.0190	2.0359	1.0549	9.23E-02
284	0.00	0.000	0.000	0.0190	1.7380	0.9006	9.14E-02
285	0.00	0.000	0.000	0.0190	1.4805	0.7671	9.07E-02
286	0.00	0.000	0.000	0.0190	1.2577	0.6517	9.00E-02
287	0.00	0.000	0.000	0.0190	1.0651	0.5519	8.95E-02
288	0.00	0.000	0.000	0.0190	0.8986	0.4656	8.90E-02
289	0.00	0.000	0.000	0.0190	0.7546	0.3910	8.86E-02
290	0.00	0.000	0.000	0.0190	0.6301	0.3265	8.82E-02
291	0.00	0.000	0.000	0.0190	0.5224	0.2707	8.79E-02
292	0.00	0.000	0.000	0.0190	0.4293	0.2224	8.76E-02
293	0.00	0.000	0.000	0.0190	0.3488	0.1807	8.74E-02
294	0.00	0.000	0.000	0.0190	0.2792	0.1447	8.72E-02
295	0.00	0.000	0.000	0.0190	0.2190	0.1135	8.70E-02
296	0.00	0.000	0.000	0.0190	0.1669	0.0865	8.69E-02
297	0.00	0.000	0.000	0.0190	0.1219	0.0632	8.67E-02
298	0.00	0.000	0.000	0.0190	0.0830	0.0430	8.66E-02
299	0.00	0.000	0.000	0.0190	0.0493	0.0255	8.65E-02
300	0.00	0.000	0.000	0.0190	0.0202	0.0105	8.65E-02
301	0.00	0.000	0.000	0.0190	0.0010	0.0003	1.39E-02
302	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

312	4.00	0.000	0.285	0.0314	0.0000	0.0000	0.00E+00
313	4.00	0.000	0.399	0.0434	0.0000	0.0000	0.00E+00
314	2.00	0.000	0.503	0.0484	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.433	0.0469	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.433	0.0455	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.420	0.0441	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.428	0.0427	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.422	0.0413	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.369	0.0400	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.411	0.0386	0.0008	0.0002	1.16E-02
322	0.00	0.000	0.405	0.0372	0.0011	0.0004	1.55E-02
323	0.00	0.000	0.400	0.0358	0.0013	0.0006	1.90E-02
324	0.00	0.000	0.396	0.0345	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.391	0.0332	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.386	0.0319	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.382	0.0306	0.0000	0.0000	0.00E+00
328	1.00	0.000	0.476	0.0324	0.0000	0.0000	0.00E+00
329	6.00	0.000	0.472	0.0508	0.0000	0.0000	0.00E+00
330	1.50	0.000	0.469	0.0542	0.0000	0.0000	0.00E+00
331	1.30	0.000	0.466	0.0570	0.0000	0.0000	0.00E+00
332	2.20	0.000	0.462	0.0628	0.0000	0.0000	0.00E+00
333	3.00	0.000	0.459	0.0622	0.0214	0.0111	4.33E-02
334	0.00	0.000	0.355	0.0580	0.4356	0.2257	8.77E-02
335	0.00	0.000	0.352	0.0544	0.9123	0.4727	8.90E-02
336	0.00	0.000	0.348	0.0517	0.9253	0.4794	8.91E-02
337	0.00	0.000	0.345	0.0497	0.8846	0.4584	8.89E-02
338	0.00	0.000	0.342	0.0483	0.7940	0.4114	8.87E-02
339	0.00	0.000	0.339	0.0471	0.6710	0.3477	8.83E-02
340	0.00	0.000	0.336	0.0460	0.5578	0.2890	8.80E-02

341	0.00	0.000	0.333	0.0449	0.4599	0.2383	8.77E-02
342	0.00	0.000	0.330	0.0438	0.3752	0.1944	8.75E-02
343	0.00	0.000	0.328	0.0427	0.3020	0.1565	8.73E-02
344	0.00	0.000	0.325	0.0416	0.2387	0.1237	8.71E-02
345	0.00	0.000	0.322	0.0406	0.1840	0.0953	8.69E-02
346	5.00	0.000	0.427	0.0558	0.1367	0.0708	8.68E-02
347	4.00	0.000	0.425	0.0625	0.1157	0.0599	8.67E-02
348	6.00	0.000	0.423	0.0630	0.3972	0.2058	8.75E-02
349	7.00	0.000	0.421	0.0641	0.6827	0.3537	8.84E-02
350	7.50	0.000	0.419	0.0596	0.9064	0.4697	8.90E-02
351	17.00	0.000	4.727	0.0791	0.9028	0.4678	8.90E-02
352	0.00	0.000	4.530	0.0466	1.0589	0.5487	8.94E-02
353	0.00	0.000	6.206	0.0259	1.2056	0.6247	8.99E-02
354	0.00	0.000	2.080	0.0190	2.5776	1.3356	9.38E-02
355	0.00	0.000	0.000	0.0190	3.8713	2.0060	9.75E-02
356	5.00	0.000	2.242	0.0282	4.8843	2.5309	1.00E-01
357	65.00	0.000	2.222	0.1155	5.6865	2.9465	1.03E-01
358	2.00	0.000	6.245	0.0452	5.4683	2.8335	1.02E-01
359	5.00	0.000	5.642	0.0411	5.9913	3.1045	1.04E-01
360	21.00	0.000	6.075	0.0908	7.2183	3.7402	1.07E-01
361	2.00	0.000	6.459	0.0407	8.2245	4.2616	1.10E-01
362	0.00	0.000	6.368	0.0195	7.8355	4.0601	1.09E-01
363	0.00	0.000	0.100	0.0191	8.4715	4.3896	1.11E-01
364	0.00	0.000	0.031	0.0190	9.2254	4.7802	1.13E-01
365	3.00	0.000	2.147	0.0219	9.7400	5.0469	1.14E-01

* = Frozen (air or soil)

Annual Totals for Year 28			
	mm*	cubic meters	percent
Precipitation	1,435.00	14,350.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	420.235	4,202.4	29.28
Drainage Collected from Layer 2	985.8138	9,858.1	68.70
Percolation/Leakage through Layer 3	30.064911	300.6	2.10
Average Head on Top of Layer 3	8.5591 (cm)	---	---
Change in Water Storage	-1.1139	-11.1	-0.08
Soil Water at Start of Year	900.4554	9,004.6	62.75
Soil Water at End of Year	899.3415	8,993.4	62.67
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 29

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			71.00	0.000	6.410	0.1152		10.2709	5.3220	1.16E-01
2			0.00	0.000	6.051	0.0392		9.7408	5.0473	1.14E-01
3			0.00	0.000	6.068	0.0190		9.5870	4.9676	1.14E-01
4			0.00	0.000	0.000	0.0190		10.4865	5.4337	1.17E-01
5			0.00	0.000	0.000	0.0190		11.1617	5.7835	1.19E-01
6	*Note: head c		0.00	0.000	0.000	0.0190		11.5816	6.0011	1.20E-01
7			0.00	0.000	0.000	0.0190		11.8027	6.1157	1.20E-01
8			0.00	0.000	0.000	0.0190		11.8698	6.1504	1.21E-01
9			29.00	0.000	1.547	0.0992		11.8184	6.1238	1.20E-01
10			36.00	0.000	5.499	0.1000		11.4711	5.9439	1.19E-01
11			25.00	0.000	4.515	0.0942		10.0362	5.2003	1.15E-01
12			3.00	0.000	3.776	0.0532		9.0629	4.6960	1.12E-01
13			3.00	0.000	6.501	0.0415		8.6998	4.5079	1.11E-01
14			11.00	0.000	4.871	0.0603		9.8365	5.0969	1.15E-01
15			49.20	0.000	4.646	0.1007		10.7783	5.5849	1.17E-01
16			6.80	0.000	5.630	0.0639		10.1629	5.2660	1.16E-01
17			18.00	0.000	6.300	0.0830		10.4180	5.3982	1.16E-01
18			3.00	0.000	4.990	0.0508		11.0290	5.7148	1.18E-01
19			43.00	0.000	5.914	0.1035		10.8710	5.6329	1.18E-01
20			12.00	0.000	5.837	0.0625		10.5073	5.4444	1.17E-01
21			2.00	0.000	6.346	0.0459		10.7453	5.5678	1.17E-01

22	0.00	0.000	7.016	0.0225	12.7096	6.5856	1.23E-01
23	0.00	0.000	0.790	0.0191	14.4962	7.5113	1.28E-01
24	0.00	0.000	0.031	0.0190	15.6540	8.1113	1.31E-01
25	0.00	0.000	0.008	0.0190	16.3493	8.4716	1.33E-01
26	58.00	0.000	6.091	0.0974	16.6822	8.6441	1.34E-01
27	0.00	0.000	6.507	0.0317	15.9140	8.2460	1.32E-01
28	0.00	0.000	3.653	0.0191	14.7025	7.6183	1.29E-01
29	0.00	0.000	0.033	0.0190	15.7351	8.1533	1.32E-01
30	0.00	0.000	0.000	0.0190	16.4092	8.5026	1.34E-01
31	27.00	0.000	4.059	0.0955	16.7206	8.6639	1.35E-01
32	16.00	0.000	5.417	0.0791	16.7095	8.6582	1.35E-01
33	1.00	0.000	5.554	0.0433	15.1724	7.8617	1.30E-01
34	0.00	0.000	6.804	0.0207	13.7903	7.1456	1.26E-01
35	0.00	0.000	0.476	0.0191	14.2482	7.3828	1.27E-01
36	0.00	0.000	0.017	0.0190	14.5865	7.5581	1.28E-01
37	0.00	0.000	0.004	0.0190	14.6908	7.6122	1.29E-01
38	5.00	0.000	3.022	0.0256	14.6193	7.5751	1.29E-01
39	16.00	0.000	4.238	0.0648	14.4172	7.4704	1.28E-01
40	0.00	0.000	5.981	0.0406	14.1295	7.3213	1.27E-01
41	0.00	0.000	6.488	0.0190	13.5640	7.0283	1.25E-01
42	0.00	0.000	0.000	0.0190	13.0832	6.7792	1.24E-01
43	0.00	0.000	0.000	0.0190	12.5226	6.4887	1.22E-01
44	0.00	0.000	0.000	0.0190	10.9138	5.6551	1.18E-01
45	0.00	0.000	0.000	0.0190	9.4149	4.8784	1.14E-01
46	5.00	0.000	0.551	0.0338	8.1187	4.2068	1.10E-01
47	11.00	0.000	0.779	0.0679	6.9979	3.6260	1.07E-01
48	44.00	0.000	1.049	0.0988	6.0506	3.1352	1.04E-01
49	16.00	0.000	5.004	0.0769	5.2396	2.7150	1.01E-01
50	29.00	0.000	6.395	0.0970	4.9837	2.5824	1.01E-01

51	8.00	0.000	6.473	0.0641	4.3952	2.2774	9.91E-02
52	0.00	0.000	4.667	0.0474	4.6635	2.4164	9.98E-02
53	28.00	0.000	4.341	0.0855	6.6130	3.4266	1.05E-01
54	44.00	0.000	2.931	0.0885	7.4437	3.8570	1.08E-01
55	50.30	0.000	3.048	0.0908	6.4393	3.3366	1.05E-01
56	15.70	0.000	5.584	0.0721	5.7641	2.9867	1.03E-01
57	0.00	0.000	6.659	0.0416	7.1604	3.7102	1.07E-01
58	31.00	0.000	5.728	0.0839	11.4943	5.9559	1.20E-01
59	35.00	0.000	5.019	0.0896	13.7535	7.1265	1.26E-01
60	13.00	0.000	6.358	0.0658	13.1395	6.8083	1.24E-01
61	0.00	0.000	5.535	0.0458	14.6730	7.6030	1.29E-01
62	0.00	0.000	6.873	0.0229	18.4281	9.5487	1.39E-01
63	1.00	0.000	1.510	0.0202	21.0142	10.8887	1.47E-01
64	3.00	0.000	2.539	0.0217	22.5238	11.6709	1.51E-01
65	0.00	0.000	0.403	0.0204	23.2718	12.0585	1.53E-01
66	2.50	0.000	1.954	0.0222	23.4595	12.1557	1.54E-01
67	12.00	0.000	3.510	0.0505	23.2536	12.0491	1.53E-01
68	4.00	0.000	4.537	0.0487	22.7746	11.8009	1.52E-01
69	10.00	0.000	5.168	0.0648	22.1103	11.4567	1.50E-01
70	4.00	0.000	5.477	0.0566	21.2773	11.0250	1.48E-01
71	0.00	0.000	4.646	0.0399	20.2745	10.5054	1.45E-01
72	0.00	0.000	5.822	0.0204	19.3278	10.0149	1.42E-01
73	4.00	0.000	2.496	0.0254	18.4776	9.5744	1.40E-01
74	0.00	0.000	1.056	0.0219	17.6356	9.1380	1.37E-01
75	0.00	0.000	0.574	0.0200	16.7999	8.7050	1.35E-01
76	0.00	0.000	0.228	0.0193	15.9954	8.2882	1.32E-01
77	3.00	0.000	0.604	0.0272	14.5925	7.5612	1.28E-01
78	0.00	0.000	0.469	0.0257	12.5958	6.5266	1.23E-01
79	0.00	0.000	0.677	0.0234	10.8693	5.6320	1.18E-01

80	0.00	0.000	0.547	0.0216	9.3764	4.8585	1.13E-01
81	0.00	0.000	0.612	0.0196	8.0854	4.1895	1.10E-01
82	0.00	0.000	0.138	0.0191	6.9691	3.6111	1.06E-01
83	1.00	0.000	0.134	0.0220	6.0038	3.1109	1.04E-01
84	4.00	0.000	0.367	0.0341	5.1692	2.6784	1.01E-01
85	72.00	0.000	0.767	0.1146	4.5087	2.3362	9.94E-02
86	2.00	0.000	5.684	0.0466	3.9340	2.0384	9.77E-02
87	6.00	0.000	6.035	0.0465	4.5283	2.3464	9.94E-02
88	6.50	0.000	5.420	0.0492	6.2280	3.2271	1.04E-01
89	7.50	0.000	4.978	0.0577	7.5548	3.9146	1.08E-01
90	0.00	0.000	5.927	0.0371	8.5741	4.4427	1.11E-01
91	0.00	0.000	5.179	0.0198	9.2481	4.7920	1.13E-01
92	16.00	0.000	4.473	0.0583	9.7509	5.0525	1.14E-01
93	0.00	0.000	5.552	0.0398	10.0690	5.2173	1.15E-01
94	0.00	0.000	6.229	0.0190	10.2377	5.3048	1.16E-01
95	0.00	0.000	0.000	0.0190	10.2992	5.3366	1.16E-01
96	13.00	0.000	4.475	0.0474	9.4010	4.8712	1.13E-01
97	0.00	0.000	4.495	0.0324	8.1067	4.2006	1.10E-01
98	0.00	0.000	3.563	0.0206	6.9875	3.6207	1.07E-01
99	0.00	0.000	0.396	0.0192	6.0198	3.1192	1.04E-01
100	0.00	0.000	0.071	0.0190	5.1829	2.6856	1.01E-01
101	0.00	0.000	0.000	0.0190	4.4593	2.3106	9.92E-02
102	0.00	0.000	0.000	0.0190	3.8336	1.9864	9.74E-02
103	0.00	0.000	0.000	0.0190	3.2925	1.7060	9.59E-02
104	0.00	0.000	0.000	0.0190	2.8246	1.4636	9.45E-02
105	0.00	0.000	0.000	0.0190	2.4201	1.2540	9.34E-02
106	0.00	0.000	0.000	0.0190	2.0702	1.0727	9.24E-02
107	2.00	0.000	0.437	0.0242	1.7677	0.9160	9.15E-02
108	0.00	0.000	0.366	0.0230	1.5061	0.7804	9.07E-02

109	0.00	0.000	0.556	0.0211	1.2799	0.6632	9.01E-02
110	0.00	0.000	0.428	0.0197	1.0843	0.5619	8.95E-02
111	0.00	0.000	0.184	0.0191	0.9152	0.4742	8.90E-02
112	3.00	0.000	0.373	0.0279	0.7689	0.3984	8.86E-02
113	0.00	0.000	0.296	0.0269	0.6425	0.3329	8.82E-02
114	0.00	0.000	0.452	0.0254	0.5331	0.2762	8.79E-02
115	0.00	0.000	0.435	0.0239	0.4386	0.2272	8.77E-02
116	0.00	0.000	0.422	0.0225	0.3568	0.1849	8.74E-02
117	0.00	0.000	0.463	0.0210	0.2861	0.1482	8.72E-02
118	4.00	0.000	0.552	0.0325	0.2250	0.1166	8.70E-02
119	3.00	0.000	0.577	0.0405	0.1721	0.0892	8.69E-02
120	1.00	0.000	0.565	0.0420	0.1264	0.0655	8.68E-02
121	0.00	0.000	0.509	0.0403	0.0868	0.0450	8.66E-02
122	0.00	0.000	0.490	0.0387	0.0527	0.0273	8.66E-02
123	3.00	0.000	0.562	0.0468	0.0231	0.0120	8.65E-02
124	0.00	0.000	0.498	0.0451	0.0017	0.0009	2.31E-02
125	0.00	0.000	0.503	0.0434	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.479	0.0418	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.470	0.0403	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.474	0.0387	0.0002	0.0000	3.01E-03
129	3.00	0.000	0.525	0.0469	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.461	0.0454	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.454	0.0439	0.0002	0.0000	2.81E-03
132	4.00	0.000	0.504	0.0555	0.0000	0.0000	0.00E+00
133	0.00	0.000	0.440	0.0541	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.434	0.0517	0.0247	0.0128	6.49E-02
135	0.00	0.000	0.428	0.0495	0.0637	0.0330	8.66E-02
136	0.00	0.000	0.422	0.0477	0.0895	0.0464	8.67E-02
137	0.00	0.000	0.416	0.0463	0.0701	0.0363	8.66E-02

138	0.00	0.000	0.411	0.0449	0.0382	0.0198	8.65E-02
139	0.00	0.000	0.405	0.0436	0.0106	0.0054	6.88E-02
140	0.00	0.000	0.400	0.0422	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.396	0.0409	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.391	0.0396	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.386	0.0383	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.382	0.0370	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.378	0.0358	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.374	0.0345	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.370	0.0333	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.366	0.0321	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.362	0.0309	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.359	0.0297	0.0000	0.0000	0.00E+00
151	3.00	0.000	0.416	0.0383	0.0000	0.0000	0.00E+00
152	2.00	0.000	0.413	0.0436	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.348	0.0424	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.345	0.0413	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.342	0.0400	0.0023	0.0012	2.16E-02
156	0.00	0.000	0.339	0.0389	0.0007	0.0002	1.06E-02
157	0.00	0.000	0.336	0.0378	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.333	0.0367	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.297	0.0357	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.328	0.0346	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.325	0.0335	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.322	0.0324	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.320	0.0314	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.317	0.0303	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.315	0.0293	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.312	0.0282	0.0000	0.0000	0.00E+00

167	0.00	0.000	0.310	0.0272	0.0000	0.0000	0.00E+00
168	0.00	0.000	0.249	0.0263	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.306	0.0253	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.304	0.0243	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.301	0.0233	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.299	0.0223	0.0000	0.0000	0.00E+00
173	0.00	0.000	0.297	0.0213	0.0000	0.0000	0.00E+00
174	0.00	0.000	0.295	0.0203	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.293	0.0194	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.108	0.0190	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
178	12.00	0.000	0.262	0.0581	0.0000	0.0000	0.00E+00
179	4.00	0.000	0.330	0.0578	0.0161	0.0083	2.16E-02
180	5.00	0.000	0.353	0.0595	0.2561	0.1327	8.71E-02
181	11.00	0.000	0.352	0.0684	0.6766	0.3506	8.83E-02
182	0.00	0.000	5.298	0.0440	0.6497	0.3366	8.83E-02
183	1.00	0.000	5.589	0.0287	1.3338	0.6911	9.02E-02
184	0.00	0.000	2.756	0.0195	2.6089	1.3518	9.39E-02
185	0.00	0.000	0.107	0.0191	3.5612	1.8453	9.67E-02
186	0.00	0.000	0.027	0.0190	3.2716	1.6952	9.58E-02
187	0.00	0.000	0.007	0.0190	2.8066	1.4543	9.45E-02
188	0.00	0.000	0.002	0.0190	2.4045	1.2459	9.33E-02
189	0.00	0.000	0.001	0.0190	2.0567	1.0657	9.23E-02
190	0.00	0.000	0.000	0.0190	1.7560	0.9099	9.15E-02
191	0.00	0.000	0.000	0.0190	1.4960	0.7752	9.07E-02
192	0.00	0.000	0.000	0.0190	1.2712	0.6587	9.01E-02
193	0.00	0.000	0.000	0.0190	1.0768	0.5579	8.95E-02
194	0.00	0.000	0.000	0.0190	0.9087	0.4708	8.90E-02
195	0.00	0.000	0.000	0.0190	0.7633	0.3955	8.86E-02

196	0.00	0.000	0.000	0.0190	0.6376	0.3304	8.82E-02
197	0.00	0.000	0.000	0.0190	0.5289	0.2741	8.79E-02
198	0.00	0.000	0.000	0.0190	0.4349	0.2254	8.77E-02
199	0.00	0.000	0.000	0.0190	0.3536	0.1832	8.74E-02
200	0.00	0.000	0.000	0.0190	0.2834	0.1468	8.72E-02
201	0.00	0.000	0.000	0.0190	0.2226	0.1153	8.70E-02
202	0.00	0.000	0.000	0.0190	0.1701	0.0881	8.69E-02
203	0.00	0.000	0.000	0.0190	0.1246	0.0646	8.68E-02
204	0.00	0.000	0.000	0.0190	0.0853	0.0442	8.66E-02
205	0.00	0.000	0.000	0.0190	0.0513	0.0266	8.65E-02
206	0.00	0.000	0.000	0.0190	0.0220	0.0114	8.65E-02
207	0.00	0.000	0.000	0.0190	0.0014	0.0006	1.95E-02
208	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
209	2.00	0.000	0.282	0.0247	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.207	0.0240	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.327	0.0229	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.321	0.0219	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.315	0.0208	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.252	0.0200	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.243	0.0192	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.044	0.0190	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.008	0.0190	0.0000	0.0000	0.00E+00
218	0.00	0.000	0.003	0.0190	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
224	6.00	0.000	0.240	0.0382	0.0000	0.0000	0.00E+00

225	70.00	0.000	0.468	0.1133	0.0867	0.0449	4.34E-02
226	3.00	0.000	5.819	0.0543	0.1400	0.0725	8.68E-02
227	0.00	0.000	5.495	0.0346	1.3492	0.6991	9.03E-02
228	0.00	0.000	4.654	0.0191	3.4721	1.7991	9.64E-02
229	0.00	0.000	0.019	0.0190	5.1730	2.6804	1.01E-01
230	0.00	0.000	0.005	0.0190	6.4692	3.3521	1.05E-01
231	0.00	0.000	0.001	0.0190	7.4393	3.8547	1.08E-01
232	0.00	0.000	0.000	0.0190	8.1469	4.2214	1.10E-01
233	0.00	0.000	0.000	0.0190	8.6436	4.4788	1.11E-01
234	0.00	0.000	0.000	0.0190	8.9711	4.6485	1.12E-01
235	0.00	0.000	0.000	0.0190	9.0305	4.6792	1.12E-01
236	0.00	0.000	0.000	0.0190	7.9600	4.1246	1.09E-01
237	0.00	0.000	0.000	0.0190	6.8607	3.5549	1.06E-01
238	0.00	0.000	0.000	0.0190	5.9101	3.0624	1.03E-01
239	0.00	0.000	0.000	0.0190	5.0881	2.6364	1.01E-01
240	0.00	0.000	0.000	0.0190	4.3773	2.2681	9.90E-02
241	0.00	0.000	0.000	0.0190	3.7627	1.9497	9.72E-02
242	0.00	0.000	0.000	0.0190	3.2312	1.6743	9.57E-02
243	0.00	0.000	0.000	0.0190	2.7716	1.4361	9.44E-02
244	0.00	0.000	0.000	0.0190	2.3742	1.2302	9.32E-02
245	0.00	0.000	0.000	0.0190	2.0306	1.0522	9.22E-02
246	0.00	0.000	0.000	0.0190	1.7334	0.8982	9.14E-02
247	0.00	0.000	0.000	0.0190	1.4765	0.7650	9.07E-02
248	0.00	0.000	0.000	0.0190	1.2543	0.6499	9.00E-02
249	0.00	0.000	0.000	0.0190	1.0622	0.5504	8.95E-02
250	0.00	0.000	0.000	0.0190	0.8960	0.4643	8.90E-02
251	0.00	0.000	0.000	0.0190	0.7524	0.3898	8.86E-02
252	0.00	0.000	0.000	0.0190	0.6282	0.3255	8.82E-02
253	0.00	0.000	0.000	0.0190	0.5207	0.2698	8.79E-02

254	0.00	0.000	0.000	0.0190	0.4279	0.2217	8.76E-02
255	0.00	0.000	0.000	0.0190	0.3475	0.1801	8.74E-02
256	0.00	0.000	0.000	0.0190	0.2781	0.1441	8.72E-02
257	0.00	0.000	0.000	0.0190	0.2180	0.1130	8.70E-02
258	0.00	0.000	0.000	0.0190	0.1661	0.0861	8.69E-02
259	0.00	0.000	0.000	0.0190	0.1212	0.0628	8.67E-02
260	0.00	0.000	0.000	0.0190	0.0824	0.0427	8.66E-02
261	0.00	0.000	0.000	0.0190	0.0488	0.0253	8.65E-02
262	0.00	0.000	0.000	0.0190	0.0198	0.0102	8.65E-02
263	0.00	0.000	0.000	0.0190	0.0009	0.0003	1.25E-02
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	7.00	0.000	0.216	0.0416	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.276	0.0407	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.304	0.0397	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.320	0.0386	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.317	0.0376	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.315	0.0365	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.312	0.0355	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.310	0.0344	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.308	0.0334	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.305	0.0324	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.303	0.0314	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.310	0.0303	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.308	0.0293	0.0000	0.0000	4.17E-04
301	0.00	0.000	0.306	0.0283	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.304	0.0273	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.301	0.0263	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.299	0.0253	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.297	0.0243	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.295	0.0233	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.293	0.0223	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.291	0.0214	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.289	0.0204	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.288	0.0194	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.099	0.0190	0.0030	0.0013	3.18E-02

312	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
314	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
321	1.00	0.000	0.112	0.0220	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.112	0.0216	0.0000	0.0000	0.00E+00
323	1.00	0.000	0.238	0.0241	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.130	0.0237	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.181	0.0231	0.0000	0.0000	0.00E+00
326	4.00	0.000	0.268	0.0355	0.0000	0.0000	0.00E+00
327	14.00	0.000	0.306	0.0812	0.0000	0.0000	7.25E-05
328	5.00	0.000	0.351	0.0674	0.0009	0.0003	1.23E-02
329	1.00	0.000	0.350	0.0607	0.1216	0.0630	6.51E-02
330	0.00	0.000	0.257	0.0577	0.8470	0.4389	8.88E-02
331	0.00	0.000	0.255	0.0550	1.9524	1.0117	9.20E-02
332	0.00	0.000	0.254	0.0525	2.7853	1.4432	9.44E-02
333	0.00	0.000	0.253	0.0509	2.5699	1.3316	9.38E-02
334	0.80	0.000	0.346	0.0522	2.2348	1.1580	9.28E-02
335	48.00	0.000	0.345	0.1055	1.9456	1.0081	9.20E-02
336	4.00	0.000	5.657	0.0545	1.6706	0.8656	9.12E-02
337	2.00	0.000	5.518	0.0418	2.5728	1.3331	9.38E-02
338	18.00	0.000	4.429	0.0870	4.1763	2.1640	9.84E-02
339	49.50	0.000	4.335	0.0904	5.4377	2.8176	1.02E-01
340	67.00	0.000	5.275	0.0985	5.1006	2.6429	1.01E-01

341	4.00	0.000	5.936	0.0561	4.4926	2.3279	9.93E-02
342	2.00	0.000	6.226	0.0404	5.8042	3.0075	1.03E-01
343	0.00	0.000	6.050	0.0202	9.4328	4.8877	1.14E-01
344	0.00	0.000	0.264	0.0193	12.1551	6.2983	1.21E-01
345	0.00	0.000	0.069	0.0191	14.0061	7.2574	1.27E-01
346	0.00	0.000	0.017	0.0190	15.2078	7.8801	1.30E-01
347	0.00	0.000	0.005	0.0190	15.9231	8.2507	1.32E-01
348	114.00	0.000	2.210	0.1252	16.2888	8.4402	1.33E-01
349	9.00	0.000	6.545	0.0611	14.9781	7.7610	1.30E-01
350	0.00	0.000	5.415	0.0411	16.1088	8.3469	1.33E-01
351	0.00	0.000	6.616	0.0190	18.7360	9.7082	1.40E-01
352	0.00	0.000	0.000	0.0190	20.4135	10.5775	1.45E-01
353	27.00	0.000	5.702	0.0900	21.3169	11.0455	1.48E-01
354	0.00	0.000	4.820	0.0465	21.6116	11.1982	1.49E-01
355	48.00	0.000	3.099	0.1062	20.3681	10.5539	1.45E-01
356	248.00	0.000	4.162	0.1632	18.7108	9.6952	1.40E-01
357	40.00	0.000	5.827	0.0881	17.4416	9.0375	1.37E-01
358	0.00	0.000	5.128	0.0465	119.9722	16.8907	4.32E-01
359	0.00	0.000	6.863	0.0236	356.6695	22.5182	1.11E+00
360	0.00	0.000	1.376	0.0190	332.1563	21.7163	1.04E+00
361	0.00	0.000	0.000	0.0190	308.5100	21.0046	9.75E-01
362	0.00	0.000	0.000	0.0190	285.6701	20.3269	9.09E-01
363	0.00	0.000	0.000	0.0190	263.5986	19.6829	8.46E-01
364	0.00	0.000	0.000	0.0190	242.2578	19.0726	7.84E-01
365	0.00	0.000	0.000	0.0190	221.6100	18.4964	7.25E-01

* = Frozen (air or soil)

Annual Totals for Year 29			
	mm*	cubic meters	percent
Precipitation	1,792.80	17,928.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	508.184	5,081.8	28.35
Drainage Collected from Layer 2	1,021.9517	10,219.5	57.00
Percolation/Leakage through Layer 3	30.941283	309.4	1.73
Average Head on Top of Layer 3	10.3959 (cm)	---	---
Change in Water Storage	231.7228	2,317.2	12.93
Soil Water at Start of Year	899.3415	8,993.4	50.16
Soil Water at End of Year	1,131.0642	11,310.6	63.09
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Daily Output for Year 30

Title: Bluewater
Simulated On: 26/05/2026 10:06

Column key: Head #1: drainage from Layer 3
 Drain #1: drainage from Layer 2
 Leak #1: leakage thru Layer 3

Day	Freezing Status*		Rain (mm)	Runoff (mm)	ET (mm)	Evap. Zone		Head #1 (cm)	Drain #1 (mm)	Leak #1 (mm)
	Air	Soil				Water (cm/cm)				
1			0.00	0.000	0.000	0.0190		201.6167	17.9555	6.67E-01
2			1.50	0.000	0.201	0.0233		122.6039	16.5360	4.39E-01
3			0.00	0.000	0.455	0.0218		59.8687	15.5964	2.59E-01
4			0.00	0.000	0.596	0.0198		57.8429	15.5929	2.53E-01
5			0.00	0.000	0.202	0.0192		54.0698	15.5863	2.42E-01
6	*Note: head c		0.00	0.000	0.038	0.0190		48.9110	15.5774	2.27E-01
7			7.00	0.000	0.422	0.0410		42.6315	15.5666	2.09E-01
8			0.00	0.000	0.649	0.0388		34.7528	15.5324	1.86E-01
9			0.00	0.000	0.685	0.0365		28.6369	14.8385	1.69E-01
10			0.00	0.000	0.698	0.0342		26.7477	13.8596	1.63E-01
11			5.00	0.000	0.745	0.0484		24.9641	12.9354	1.58E-01
12			0.00	0.000	0.661	0.0462		23.2917	12.0688	1.53E-01
13			8.00	0.000	0.720	0.0700		21.7315	11.2604	1.49E-01
14			0.00	0.000	4.694	0.0459		20.2494	10.4924	1.45E-01
15			0.00	0.000	0.627	0.0438		18.5736	9.6241	1.40E-01
16			0.00	0.000	0.609	0.0417		17.0215	8.8198	1.35E-01
17			0.00	0.000	0.593	0.0398		14.7146	7.6245	1.29E-01
18			0.00	0.000	0.577	0.0378		12.7014	6.5814	1.23E-01
19			0.00	0.000	0.563	0.0360		10.9606	5.6794	1.18E-01
20			0.00	0.000	0.550	0.0341		9.4553	4.8994	1.14E-01
21			0.40	0.000	0.600	0.0335		8.1537	4.2249	1.10E-01

22	3.00	0.000	0.587	0.0415	7.0282	3.6417	1.07E-01
23	0.00	0.000	0.515	0.0398	6.0549	3.1374	1.04E-01
24	0.00	0.000	0.505	0.0381	5.2133	2.7013	1.01E-01
25	0.00	0.000	0.495	0.0365	4.4856	2.3242	9.93E-02
26	0.00	0.000	0.486	0.0341	3.8726	2.0066	9.76E-02
27	2.00	0.000	0.532	0.0390	3.3648	1.7435	9.61E-02
28	68.00	0.000	0.523	0.1105	2.9753	1.5417	9.50E-02
29	18.00	0.000	5.147	0.0857	2.6771	1.3872	9.41E-02
30	20.00	0.000	4.807	0.0948	2.8545	1.4791	9.46E-02
31	12.00	0.000	2.858	0.0760	2.6001	1.3473	9.39E-02
32	340.00	0.000	2.522	0.1680	2.2402	1.1608	9.29E-02
33	380.00	0.000	2.577	0.1680	3.1133	1.6132	9.54E-02
34	246.00	0.000	3.310	0.1632	641.0785	33.3104	1.93E+00
35	44.00	0.000	3.489	0.0881	968.5364	44.0487	2.88E+00
36	9.00	0.000	5.141	0.0634	956.3045	43.5885	2.84E+00
37	71.00	0.000	4.872	0.1076	928.3238	42.5418	2.76E+00
38	78.50	0.000	4.747	0.1035	943.8537	43.1220	2.80E+00
39	102.00	0.000	4.226	0.1680	990.4320	44.8749	2.94E+00
40	60.50	0.000	4.656	0.1680	1,029.9995	46.3726	3.05E+00
41	60.00	0.000	4.420	0.1680	1,029.9995	46.3726	3.05E+00
42	88.00	0.000	3.487	0.1680	1,029.9995	46.3726	3.05E+00
43	18.00	0.000	6.392	0.1680	1,029.9995	46.3726	3.05E+00
44	0.00	0.000	7.269	0.0750	1,017.1228	45.8836	3.02E+00
45	0.00	0.000	5.672	0.0470	973.4755	44.2341	2.89E+00
46	18.00	0.000	6.998	0.0763	925.3451	42.4312	2.75E+00
47	0.00	0.000	6.996	0.0426	881.2103	40.7930	2.62E+00
48	0.00	0.000	7.081	0.0190	839.0728	39.2431	2.50E+00
49	0.00	0.000	0.000	0.0190	795.8085	37.6658	2.38E+00
50	1.00	0.000	0.619	0.0203	754.3025	36.1664	2.26E+00

51	0.00	0.000	0.308	0.0192	714.5093	34.5924	2.14E+00
52	0.00	0.000	0.055	0.0191	676.4540	33.2122	2.03E+00
53	0.50	0.000	0.228	0.0200	639.8981	31.9478	1.93E+00
54	28.00	0.000	1.514	0.1007	604.7588	30.7426	1.83E+00
55	0.00	0.000	3.656	0.0379	578.7070	29.8554	1.75E+00
56	2.50	0.000	5.940	0.0264	555.4194	29.0677	1.69E+00
57	20.00	0.000	6.891	0.0698	524.3975	28.0259	1.60E+00
58	0.00	0.000	6.108	0.0417	493.7468	27.0052	1.51E+00
59	1.00	0.000	6.884	0.0221	466.5451	26.1073	1.43E+00
60	0.00	0.000	0.714	0.0192	438.0833	25.1762	1.35E+00
61	0.00	0.000	0.056	0.0191	410.5844	24.2855	1.27E+00
62	0.00	0.000	0.014	0.0190	384.0545	23.4353	1.19E+00
63	0.00	0.000	0.003	0.0190	358.4897	22.5748	1.12E+00
64	0.00	0.000	0.001	0.0190	333.9130	21.7695	1.05E+00
65	0.00	0.000	0.000	0.0190	310.2064	21.0553	9.80E-01
66	0.00	0.000	0.000	0.0190	287.3090	20.3752	9.14E-01
67	0.00	0.000	0.000	0.0190	265.1828	19.7287	8.50E-01
68	0.00	0.000	0.000	0.0190	243.7900	19.1159	7.89E-01
69	0.00	0.000	0.000	0.0190	223.0929	18.5372	7.29E-01
70	50.00	0.000	0.912	0.0955	169.1697	17.4434	5.74E-01
71	4.00	0.000	5.297	0.0401	49.7229	15.5788	2.30E-01
72	0.00	0.000	4.484	0.0251	49.4889	15.5784	2.29E-01
73	49.00	0.000	5.265	0.0953	56.1026	15.5899	2.48E-01
74	11.00	0.000	5.049	0.0674	46.8289	15.5738	2.21E-01
75	6.00	0.000	3.914	0.0576	44.3623	15.5696	2.14E-01
76	10.00	0.000	4.265	0.0649	46.9757	15.5741	2.22E-01
77	71.00	0.000	3.625	0.1069	45.1635	15.5710	2.16E-01
78	275.00	0.000	3.933	0.1680	31.6276	15.2815	1.77E-01
79	90.00	0.000	4.445	0.1018	161.9350	17.9577	5.53E-01

80	21.00	0.000	5.662	0.0876	555.0357	29.0546	1.68E+00
81	0.00	0.000	5.291	0.0492	542.6468	28.6375	1.65E+00
82	2.00	0.000	5.265	0.0383	516.8657	27.7742	1.57E+00
83	116.00	0.000	4.912	0.1270	381.3373	24.0757	1.18E+00
84	60.00	0.000	3.456	0.0952	563.9453	29.3563	1.71E+00
85	25.00	0.000	3.994	0.0898	585.9302	30.1007	1.77E+00
86	22.00	0.000	4.533	0.0950	575.9101	29.7605	1.74E+00
87	42.00	0.000	5.420	0.0950	565.2355	29.3990	1.71E+00
88	5.00	0.000	5.108	0.0616	565.4211	29.4053	1.71E+00
89	3.00	0.000	6.233	0.0491	541.7928	28.6090	1.65E+00
90	2.00	0.000	5.496	0.0361	511.4662	27.5941	1.56E+00
91	5.00	0.000	6.275	0.0311	481.3845	26.5962	1.47E+00
92	12.00	0.000	4.471	0.0562	452.4957	25.6466	1.39E+00
93	6.00	0.000	6.928	0.0531	424.4330	24.7329	1.31E+00
94	40.00	0.000	6.605	0.1049	397.9462	23.8792	1.23E+00
95	7.00	0.000	6.685	0.0590	396.8963	23.8453	1.23E+00
96	63.00	0.000	6.270	0.1046	300.6990	21.4246	9.52E-01
97	0.00	0.000	6.479	0.0477	403.1648	24.0465	1.25E+00
98	0.00	0.000	6.477	0.0261	384.6443	23.4541	1.19E+00
99	0.00	0.000	2.139	0.0190	359.0583	22.5925	1.12E+00
100	0.00	0.000	0.000	0.0190	334.4618	21.7862	1.05E+00
101	0.00	0.000	0.000	0.0190	310.7363	21.0712	9.81E-01
102	0.00	0.000	0.000	0.0190	287.8210	20.3903	9.15E-01
103	1.00	0.000	0.217	0.0216	265.6776	19.7431	8.52E-01
104	0.00	0.000	0.539	0.0198	244.2686	19.1295	7.90E-01
105	0.00	0.000	0.183	0.0192	223.5561	18.5500	7.30E-01
106	3.00	0.000	0.588	0.0272	203.5019	18.0056	6.72E-01
107	0.00	0.000	0.466	0.0257	153.8876	17.0084	5.30E-01
108	0.00	0.000	0.675	0.0234	59.8069	15.5963	2.59E-01

109	0.00	0.000	0.548	0.0216	57.9483	15.5930	2.53E-01
110	2.00	0.000	0.725	0.0259	54.3063	15.5868	2.43E-01
111	0.00	0.000	0.680	0.0236	49.2527	15.5780	2.28E-01
112	0.00	0.000	0.611	0.0216	43.0591	15.5673	2.10E-01
113	0.00	0.000	0.456	0.0200	35.1553	15.5509	1.88E-01
114	0.00	0.000	0.253	0.0192	28.7658	14.9053	1.69E-01
115	0.00	0.000	0.051	0.0190	26.8723	13.9241	1.64E-01
116	0.00	0.000	0.006	0.0190	25.0835	12.9972	1.59E-01
117	0.00	0.000	0.002	0.0190	23.4052	12.1276	1.54E-01
118	0.00	0.000	0.000	0.0190	21.8386	11.3159	1.49E-01
119	0.00	0.000	0.000	0.0190	20.3819	10.5611	1.45E-01
120	0.00	0.000	0.000	0.0190	18.9037	9.7951	1.41E-01
121	0.00	0.000	0.000	0.0190	16.5053	8.5524	1.34E-01
122	0.00	0.000	0.000	0.0190	14.2499	7.3837	1.27E-01
123	0.00	0.000	0.000	0.0190	12.2996	6.3731	1.22E-01
124	1.00	0.000	0.088	0.0220	10.6131	5.4993	1.17E-01
125	3.00	0.000	0.262	0.0312	9.1549	4.7437	1.13E-01
126	0.00	0.000	0.346	0.0300	7.8939	4.0903	1.09E-01
127	0.00	0.000	0.415	0.0286	6.8035	3.5253	1.06E-01
128	0.00	0.000	0.407	0.0273	5.8606	3.0367	1.03E-01
129	0.00	0.000	0.400	0.0259	5.0453	2.6143	1.01E-01
130	0.00	0.000	0.392	0.0246	4.3403	2.2490	9.89E-02
131	0.00	0.000	0.423	0.0232	3.7307	1.9331	9.71E-02
132	1.00	0.000	0.465	0.0250	3.2035	1.6599	9.56E-02
133	0.00	0.000	0.414	0.0236	2.7477	1.4237	9.43E-02
134	0.50	0.000	0.463	0.0237	2.3535	1.2195	9.32E-02
135	0.00	0.000	0.422	0.0223	2.0127	1.0429	9.22E-02
136	0.00	0.000	0.410	0.0210	1.7180	0.8902	9.13E-02
137	1.00	0.000	0.377	0.0231	1.4632	0.7581	9.06E-02

138	0.00	0.000	0.248	0.0222	1.2428	0.6440	9.00E-02
139	0.00	0.000	0.290	0.0213	1.0522	0.5452	8.94E-02
140	0.00	0.000	0.278	0.0203	0.8874	0.4598	8.90E-02
141	0.00	0.000	0.246	0.0195	0.7449	0.3860	8.85E-02
142	0.00	0.000	0.121	0.0191	0.6217	0.3221	8.82E-02
143	0.00	0.000	0.027	0.0190	0.5152	0.2669	8.79E-02
144	0.00	0.000	0.004	0.0190	0.4230	0.2192	8.76E-02
145	0.00	0.000	0.001	0.0190	0.3434	0.1779	8.74E-02
146	0.00	0.000	0.000	0.0190	0.2745	0.1422	8.72E-02
147	0.00	0.000	0.000	0.0190	0.2149	0.1114	8.70E-02
148	0.00	0.000	0.000	0.0190	0.1634	0.0847	8.69E-02
149	27.00	0.000	0.386	0.1013	0.1189	0.0616	8.67E-02
150	0.00	0.000	4.942	0.0386	0.1555	0.0805	8.68E-02
151	9.00	0.000	0.415	0.0673	0.6966	0.3610	8.84E-02
152	0.00	0.000	4.852	0.0501	1.7127	0.8875	9.13E-02
153	0.00	0.000	4.366	0.0338	2.8346	1.4688	9.46E-02
154	0.00	0.000	4.449	0.0190	3.4833	1.8049	9.64E-02
155	0.00	0.000	0.000	0.0190	3.0740	1.5928	9.53E-02
156	0.00	0.000	0.000	0.0190	2.6357	1.3657	9.40E-02
157	0.00	0.000	0.000	0.0190	2.2567	1.1693	9.29E-02
158	2.00	0.000	0.554	0.0238	1.9289	0.9995	9.20E-02
159	0.00	0.000	0.455	0.0223	1.6455	0.8527	9.11E-02
160	0.00	0.000	0.672	0.0201	1.4005	0.7257	9.04E-02
161	0.00	0.000	0.247	0.0192	1.1886	0.6159	8.98E-02
162	0.00	0.000	0.061	0.0190	1.0053	0.5209	8.93E-02
163	0.00	0.000	0.008	0.0190	0.8469	0.4388	8.88E-02
164	0.00	0.000	0.003	0.0190	0.7099	0.3678	8.84E-02
165	0.00	0.000	0.000	0.0190	0.5914	0.3064	8.81E-02
166	0.00	0.000	0.000	0.0190	0.4890	0.2534	8.78E-02

167	0.00	0.000	0.000	0.0190	0.4004	0.2075	8.76E-02
168	11.00	0.000	0.501	0.0540	0.3238	0.1678	8.73E-02
169	10.00	0.000	0.642	0.0690	0.2851	0.1477	8.72E-02
170	0.00	0.000	0.627	0.0559	0.3545	0.1837	8.74E-02
171	0.00	0.000	0.609	0.0538	0.8127	0.4211	8.87E-02
172	0.00	0.000	0.593	0.0519	1.9118	0.9906	9.19E-02
173	0.00	0.000	0.577	0.0499	1.8339	0.9503	9.17E-02
174	0.00	0.000	0.563	0.0481	1.5634	0.8101	9.09E-02
175	0.00	0.000	0.550	0.0462	1.3294	0.6889	9.02E-02
176	0.00	0.000	0.537	0.0444	1.1271	0.5840	8.96E-02
177	0.00	0.000	0.526	0.0427	0.9522	0.4934	8.91E-02
178	0.00	0.000	0.515	0.0410	0.8010	0.4150	8.87E-02
179	0.00	0.000	0.505	0.0393	0.6702	0.3473	8.83E-02
180	2.00	0.000	0.550	0.0441	0.5571	0.2886	8.80E-02
181	0.00	0.000	0.486	0.0425	0.4593	0.2380	8.77E-02
182	0.00	0.000	0.477	0.0409	0.3747	0.1942	8.75E-02
183	0.00	0.000	0.469	0.0393	0.3016	0.1563	8.73E-02
184	0.00	0.000	0.461	0.0378	0.2383	0.1235	8.71E-02
185	0.00	0.000	0.400	0.0365	0.1837	0.0952	8.69E-02
186	0.00	0.000	0.377	0.0352	0.1364	0.0707	8.68E-02
187	0.00	0.000	0.440	0.0337	0.0955	0.0495	8.67E-02
188	0.00	0.000	0.434	0.0323	0.0601	0.0312	8.66E-02
189	0.00	0.000	0.428	0.0309	0.0296	0.0153	8.65E-02
190	0.00	0.000	0.422	0.0295	0.0046	0.0024	4.31E-02
191	0.00	0.000	0.416	0.0281	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.411	0.0267	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.405	0.0239	0.0840	0.0435	6.50E-02
194	0.00	0.000	0.400	0.0225	0.0789	0.0409	8.66E-02
195	0.00	0.000	0.396	0.0212	0.0458	0.0237	8.65E-02

196	0.00	0.000	0.391	0.0199	0.0172	0.0089	8.64E-02
197	0.00	0.000	0.276	0.0190	0.0003	0.0000	4.22E-03
198	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
203	2.00	0.000	0.213	0.0250	0.0000	0.0000	0.00E+00
204	25.00	0.000	0.388	0.1005	0.0000	0.0000	2.16E-02
205	16.00	0.000	5.897	0.0759	0.0357	0.0185	8.65E-02
206	0.00	0.000	5.035	0.0497	0.5420	0.2808	8.80E-02
207	0.00	0.000	5.350	0.0318	1.2088	0.6264	8.99E-02
208	1.50	0.000	4.404	0.0221	2.5669	1.3301	9.38E-02
209	0.00	0.000	0.658	0.0199	3.7101	1.9224	9.71E-02
210	0.00	0.000	0.213	0.0192	4.4421	2.3017	9.92E-02
211	0.00	0.000	0.053	0.0191	3.9419	2.0425	9.78E-02
212	0.00	0.000	0.013	0.0190	3.3862	1.7546	9.62E-02
213	0.00	0.000	0.003	0.0190	2.9056	1.5056	9.48E-02
214	0.00	0.000	0.001	0.0190	2.4901	1.2903	9.36E-02
215	0.00	0.000	0.000	0.0190	2.1308	1.1041	9.25E-02
216	0.00	0.000	0.000	0.0190	1.8201	0.9431	9.16E-02
217	0.00	0.000	0.000	0.0190	1.5514	0.8039	9.09E-02
218	0.00	0.000	0.000	0.0190	1.3191	0.6835	9.02E-02
219	0.00	0.000	0.000	0.0190	1.1182	0.5794	8.96E-02
220	0.00	0.000	0.000	0.0190	0.9445	0.4894	8.91E-02
221	0.00	0.000	0.000	0.0190	0.7943	0.4116	8.87E-02
222	0.00	0.000	0.000	0.0190	0.6644	0.3443	8.83E-02
223	0.00	0.000	0.000	0.0190	0.5521	0.2861	8.80E-02
224	0.00	0.000	0.000	0.0190	0.4549	0.2357	8.77E-02

225	0.00	0.000	0.000	0.0190	0.3710	0.1922	8.75E-02
226	0.00	0.000	0.000	0.0190	0.2983	0.1546	8.73E-02
227	0.00	0.000	0.000	0.0190	0.2355	0.1220	8.71E-02
228	0.00	0.000	0.000	0.0190	0.1812	0.0939	8.69E-02
229	0.00	0.000	0.000	0.0190	0.1343	0.0696	8.68E-02
230	0.00	0.000	0.000	0.0190	0.0937	0.0485	8.67E-02
231	0.00	0.000	0.000	0.0190	0.0586	0.0304	8.66E-02
232	0.00	0.000	0.000	0.0190	0.0282	0.0146	8.65E-02
233	0.00	0.000	0.000	0.0190	0.0040	0.0020	3.90E-02
234	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
238	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

254	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
273	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00

283	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.000	0.0190	0.0000	0.0000	0.00E+00
301	3.00	0.000	0.175	0.0284	0.0000	0.0000	0.00E+00
302	3.80	0.000	0.174	0.0405	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.218	0.0398	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.240	0.0390	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.239	0.0382	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.238	0.0374	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.251	0.0365	0.0000	0.0000	0.00E+00
308	0.00	0.000	0.250	0.0357	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.249	0.0349	0.0000	0.0000	0.00E+00
310	0.00	0.000	0.247	0.0341	0.0000	0.0000	0.00E+00
311	0.00	0.000	0.246	0.0332	0.0000	0.0000	0.00E+00

312	0.00	0.000	0.245	0.0324	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.244	0.0316	0.0000	0.0000	0.00E+00
314	4.00	0.000	0.311	0.0439	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.241	0.0431	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.248	0.0423	0.0000	0.0000	0.00E+00
317	2.00	0.000	0.312	0.0479	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.238	0.0471	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.245	0.0463	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.242	0.0455	0.0000	0.0000	0.00E+00
321	3.00	0.000	0.315	0.0544	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.241	0.0536	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.240	0.0528	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.239	0.0518	0.0034	0.0017	2.16E-02
325	0.00	0.000	0.238	0.0507	0.0240	0.0124	8.65E-02
326	0.00	0.000	0.237	0.0499	0.0050	0.0025	4.47E-02
327	0.00	0.000	0.236	0.0491	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.235	0.0483	0.0000	0.0000	0.00E+00
329	0.00	0.000	0.234	0.0475	0.0000	0.0000	0.00E+00
330	0.00	0.000	0.233	0.0468	0.0000	0.0000	0.00E+00
331	4.00	0.000	0.310	0.0591	0.0000	0.0000	0.00E+00
332	0.00	0.000	0.231	0.0583	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.230	0.0574	0.0055	0.0027	4.71E-02
334	2.00	0.000	0.308	0.0607	0.0000	0.0000	0.00E+00
335	5.00	0.000	0.307	0.0615	0.2074	0.1075	8.70E-02
336	0.40	0.000	0.306	0.0590	0.7319	0.3793	8.85E-02
337	0.00	0.000	0.227	0.0558	1.3601	0.7048	9.03E-02
338	0.00	0.000	0.226	0.0529	1.4229	0.7373	9.05E-02
339	0.00	0.000	0.225	0.0512	1.3480	0.6985	9.03E-02
340	0.00	0.000	0.224	0.0505	1.1789	0.6108	8.98E-02

341	0.00	0.000	0.223	0.0497	0.9970	0.5166	8.93E-02
342	0.00	0.000	0.222	0.0490	0.8396	0.4351	8.88E-02
343	0.00	0.000	0.221	0.0482	0.7036	0.3646	8.84E-02
344	0.00	0.000	0.221	0.0475	0.5860	0.3036	8.81E-02
345	0.00	0.000	0.220	0.0468	0.4843	0.2509	8.78E-02
346	0.00	0.000	0.219	0.0460	0.3963	0.2054	8.75E-02
347	0.00	0.000	0.218	0.0453	0.3203	0.1660	8.73E-02
348	0.00	0.000	0.217	0.0446	0.2545	0.1319	8.71E-02
349	0.00	0.000	0.217	0.0439	0.1976	0.1024	8.70E-02
350	0.00	0.000	0.216	0.0431	0.1485	0.0769	8.68E-02
351	12.00	0.000	0.303	0.0806	0.1060	0.0549	8.67E-02
352	0.00	0.000	0.214	0.0616	0.1885	0.0977	8.69E-02
353	0.00	0.000	0.213	0.0609	0.6184	0.3204	8.82E-02
354	0.00	0.000	0.213	0.0602	1.4224	0.7370	9.05E-02
355	0.00	0.000	0.212	0.0595	1.2431	0.6441	9.00E-02
356	0.00	0.000	0.211	0.0588	1.0525	0.5454	8.94E-02
357	0.00	0.000	0.211	0.0581	0.8877	0.4600	8.90E-02
358	4.00	0.000	0.302	0.0652	0.9328	0.4833	8.91E-02
359	7.50	0.000	0.301	0.0608	1.0068	0.5217	8.93E-02
360	0.00	0.000	0.208	0.0578	0.9495	0.4920	8.91E-02
361	92.00	0.000	0.301	0.1146	1.6106	0.8346	9.10E-02
362	38.00	0.000	4.391	0.0959	1.6551	0.8576	9.12E-02
363	14.50	0.000	3.608	0.0757	1.5046	0.7796	9.07E-02
364	132.00	0.000	3.675	0.1257	1.8247	0.9455	9.17E-02
365	31.00	0.000	3.592	0.0884	1.9757	1.0237	9.21E-02

* = Frozen (air or soil)

Annual Totals for Year 30			
	mm*	cubic meters	percent
Precipitation	3,186.10	31,861.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	397.644	3,976.4	12.48
Drainage Collected from Layer 2	2,625.7331	26,257.3	82.41
Percolation/Leakage through Layer 3	131.700720	1,317.0	4.13
Average Head on Top of Layer 3	104.3036 (cm)	---	---
Change in Water Storage	31.0221	310.2	0.97
Soil Water at Start of Year	1,131.0642	11,310.6	35.50
Soil Water at End of Year	1,162.0864	11,620.9	36.47
Snow Water at Start of Year	0.0000	0.0000	0.00
Snow Water at End of Year	0.0000	0.0000	0.00
Annual Water Budget Balance	0.0000	0.0000	0.00

*Note: head on liners expressed in cm

Average Annual Totals Summary

Title: Bluewater
Simulated on: 26/05/2026 10:06

	Average Annual Totals for Years 1 - 3		
	(millimeters)**	[std dev]	(cubic meters)
Precipitation	1,469.00	[629.03]	14,690.0
Runoff	0.000	[0]	0.0000
Evapotranspiration	355.417	[111.258]	3,554.2
Subprofile1			
Lateral drainage collected from Layer 2	1,064.0763	[547.9712]	10,640.8
Percolation/leakage through Layer 3	39.427138	[24.616432]	394.3
Average Head on Top of Layer 3	18.8443	[22.9434]	---
Water storage			
Change in water storage	10.0766	[112.0203]	100.8

* Note: Average inches are converted to volume based on the user-specified area.

**Note: head on liners expressed in cm

0*
(percent)
100.00
0.00
24.19
72.44
2.68

0.69

Peak Values Summary

Title: Bluewater
Simulated on: 26/05/2026 10:06

	Peak Values for Years 1 - 30*	
	(millimeters)*	(cubic meters)
Precipitation	453.00	4,530.0
Runoff	0.000	0.0000
Subprofile1		
Drainage collected from Layer 2	46.3726	463.7
Percolation/leakage through Layer 3	3.052749	30.5
Average head on Layer 3	1,029.9995 (cm)	---
Maximum head on Layer 3	1,227.5065 (cm)	---
Location of maximum head in Layer 2	155.60 (meters from drain)	
Other Parameters		
Snow water	0.0000	0.0000
Maximum vegetation soil water	0.1680 (vol/vol)	
Minimum vegetation soil water	0.0190 (vol/vol)	

*Note: head on liners expressed in cm

Final Water Storage in Landfill Profile at End of Simulation Period

Title: Bluewater
Simulated on: 26/05/2026 10:06
Simulation period: 30 years

Layer	Final Water Storage	
	(centimeters)	(vol/vol)
1	100.3306	0.1003
2	3.0681	0.1023
3	12.8100	0.4270
Snow water	0.0000	---

APPENDIX F

WATER BALANCE

Landfill area (m ²) =	10,000
Pond area (m ²) =	3375
Pan evaporation coefficient =	0.7
Sprinkler coefficient of	1.3

	Evaporation (m ³)	Trigger Volume (m ³)	Pond depth (m)
Extra spray - Trigger 1 (m ³) =	700	5080	2.1
Extra spray - Trigger 2 (m ³) =	900	6040	2.4

Max. volume (m ³) =	10,771	Ok > 90th percentile
Normal operating storage volume (m ³) =	5,082	
24hr 25 year storm event (m ³) =	1,230	
Available buffer volume (m ³) =	1,293	
Total volume available before overflow of pond (m ³) =	6,375	Ok > 95th percentile

95th %ile =	6,032	95th %ile =	4,526
90th %ile =	4,213	90th %ile =	3,411

Year	Month	HELP Drainage collected from Layer 2 (drainage layer) (mm)	Total discharge from landfill (m ³)	Precipitation (mm)	Precipitation over pond (m ³)	SILO Class A Pan (mm)	Pan evaporation from pond (m ³)	Evaporation via sprinkler over pond (m ³)	Scenario 1 - Total pond volume required (m ³)	Trigger spraying over landfill (m ³)	Scenario 2 - Total pond volume required after additional spray (m ³)
1	Jan	292.2	2922	407.0	1374	211.7	500	650	398.5	0	398.5
1	Feb	85.4	854	47.7	161	197.2	466	606	20.4	0	20.4
1	Mar	19.6	196	43.1	145	199.8	472	614	0.0	0	0.0
1	Apr	1.7	17	22.2	75	165.2	390	507	0.0	0	0.0
1	May	11.4	114	14.5	49	145.1	343	446	0.0	0	0.0
1	Jun	4.7	47	17.5	59	118.6	280	364	0.0	0	0.0
1	Jul	0.2	2	0.4	1	135.2	319	415	0.0	0	0.0
1	Aug	0.0	0	5.2	18	168.6	398	518	0.0	0	0.0
1	Sep	0.0	0	2.5	8	203.8	481	626	0.0	0	0.0
1	Oct	61.5	615	99.4	335	214.5	507	659	0.0	0	0.0
1	Nov	16.8	168	34.8	117	240.4	568	738	0.0	0	0.0
1	Dec	14.6	146	55.5	187	249.8	590	767	0.0	0	0.0
2	Jan	19.7	197	163.1	550	230.4	544	708	0.0	0	0.0
2	Feb	314.3	3143	387.1	1306	149.0	352	458	1027.2	0	1027.2
2	Mar	434.2	4342	814.1	2748	167.3	395	514	1712.7	0	1712.7
2	Apr	358.7	3587	4.8	16	148.4	351	456	4477.1	0	4477.1
2	May	39.8	398	53.3	180	120.5	285	370	4040.7	0	4040.7
2	Jun	5.1	51	18.1	61	105.7	250	325	3456.2	0	3456.2
2	Jul	0.0	0	5.4	18	119.6	283	367	2788.1	0	2788.1
2	Aug	0.0	0	24.2	82	140.1	331	430	1945.1	0	1945.1
2	Sep	43.3	433	46.4	157	168.8	399	518	1304.1	0	1304.1
2	Oct	0.4	4	1.4	5	216.6	512	665	126.7	0	126.7
2	Nov	0.0	0	4.1	14	234.7	554	721	0.0	0	0.0
2	Dec	114.6	1146	478.5	1615	195.3	461	600	0.0	0	0.0
3	Jan	715.1	7151	936.4	3160	194.7	460	598	2932.4	0	2932.4
3	Feb	355.0	3550	216.5	731	171.9	406	528	4818.1	0	4818.1
3	Mar	185.2	1852	82.5	278	171.8	406	528	5458.1	700	4758.1
3	Apr	29.1	291	76.3	258	150.0	354	461	4676.9	0	3976.9
3	May	53.8	538	108.0	365	122.9	290	377	4183.0	0	3483.0
3	Jun	7.6	76	18.2	61	115.7	273	355	3568.8	0	2868.8
3	Jul	2.5	25	16.3	55	112.2	265	345	2928.7	0	2228.7
3	Aug	0.4	4	290.5	980	132.2	312	406	1233.6	0	533.6
3	Sep	299.9	2999	68.3	231	159.5	377	490	3135.3	0	2435.3
3	Oct	28.6	286	84.0	284	189.9	449	583	2105.9	0	1405.9
3	Nov	33.0	330	87.9	297	188.0	444	577	1117.6	0	417.6
3	Dec	37.1	371	92.4	312	208.4	492	640	44.0	0	0.0
4	Jan	185.3	1853	304.2	1027	193.9	458	596	0.0	0	0.0
4	Feb	129.6	1296	328.1	1107	156.9	371	482	0.0	0	0.0
4	Mar	223.9	2239	128.7	434	162.5	384	499	921.5	0	921.5
4	Apr	45.0	450	91.3	308	137.5	325	422	316.1	0	316.1
4	May	7.3	73	15.5	52	122.4	289	376	0.0	0	0.0
4	Jun	0.0	0	0.4	1	115.6	273	355	0.0	0	0.0
4	Jul	0.0	0	13.1	44	120.6	285	370	0.0	0	0.0
4	Aug	0.0	0	6.2	21	147.5	348	453	0.0	0	0.0
4	Sep	0.0	0	2.8	9	187.1	442	575	0.0	0	0.0
4	Oct	0.0	0	2.7	9	222.9	527	685	0.0	0	0.0
4	Nov	90.7	907	312.6	1055	178.1	421	547	0.0	0	0.0
4	Dec	123.8	1238	119.4	403	206.4	488	634	0.0	0	0.0
5	Jan	188.0	1880	205.3	693	214.0	506	657	24.3	0	24.3
5	Feb	297.8	2978	191.5	3103	152.1	359	467	0.0	0	0.0
5	Mar	591.8	5918	248.3	838	175.9	416	540	4123.8	0	4123.8
5	Apr	523.6	5236	566.0	1910	126.4	299	388	6762.9	700	6062.9
5	May	112.8	1128	29.0	98	134.3	317	412	7063.4	700	5663.4
5	Jun	22.0	220	39.4	133	98.5	233	303	6614.8	700	4514.8
5	Jul	1.2	12	0.0	0	122.4	289	376	5961.7	700	3161.7
5	Aug	0.0	0	1.0	3	149.2	352	458	5147.6	700	1647.6

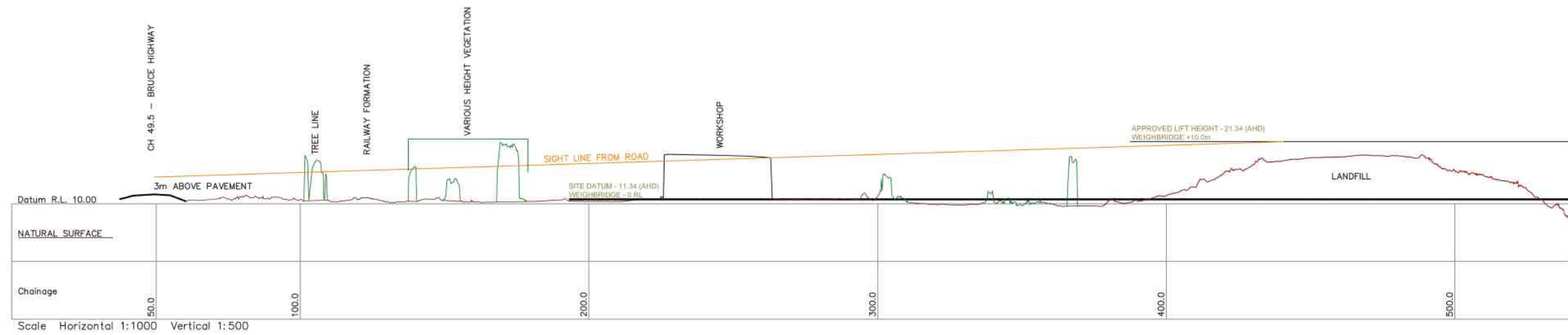
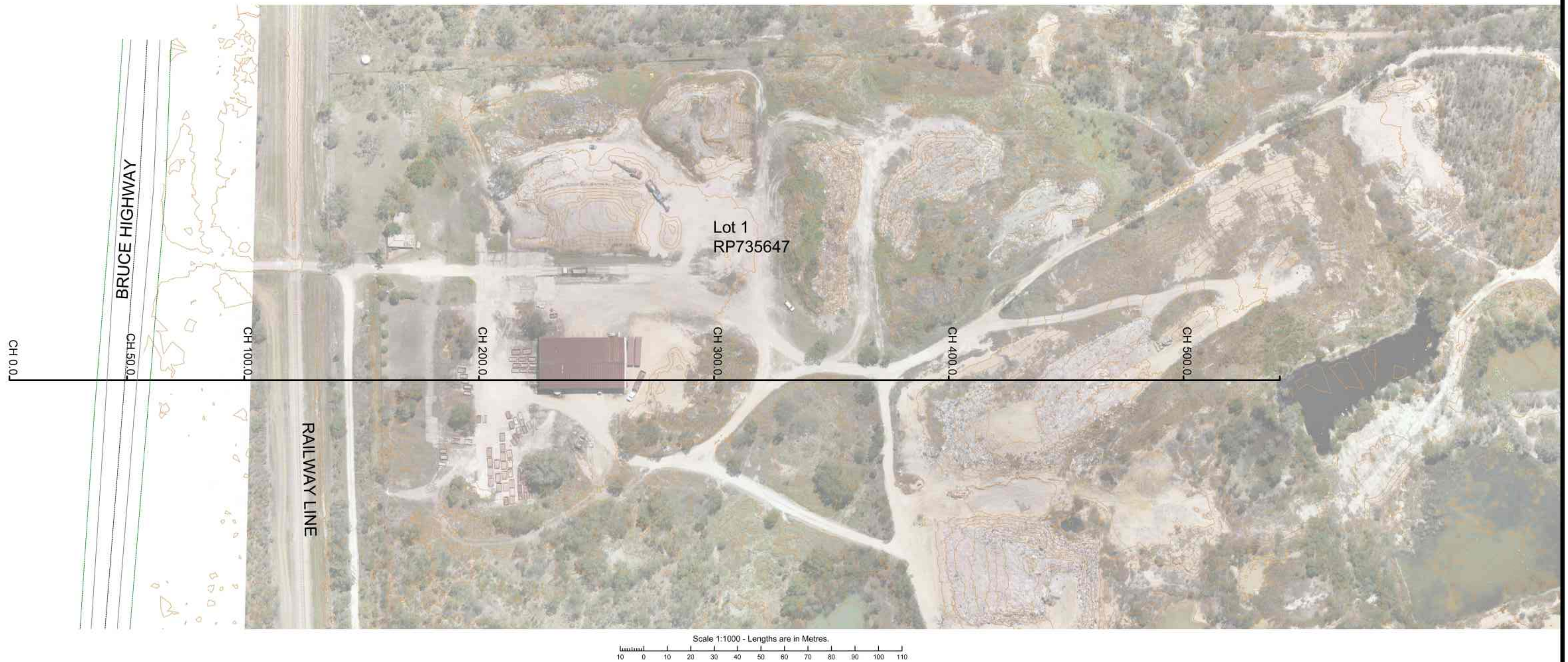
5	Sep	0.0	0	0.0	0	188.3	445	578	4124.4	0	624.4
5	Oct	7.3	73	66.6	225	200.2	473	615	2885.0	0	0.0
5	Nov	130.4	1304	410.6	1386	165.6	391	509	1903.6	0	0.0
5	Dec	236.7	2367	124.8	421	184.8	437	568	2845.3	0	941.7
6	Jan	53.0	530	30.6	103	208.3	492	640	2140.2	0	236.6
6	Feb	137.8	1378	311.6	1052	161.0	380	494	1591.2	0	0.0
6	Mar	116.5	1165	107.0	361	194.5	460	597	1337.9	0	0.0
6	Apr	15.6	156	20.1	68	166.6	394	512	520.5	0	0.0
6	May	1.8	18	0.0	0	148.9	352	457	0.0	0	0.0
6	Jun	2.8	28	14.8	50	123.6	292	380	0.0	0	0.0
6	Jul	0.0	0	8.7	29	124.6	294	383	0.0	0	0.0
6	Aug	0.0	0	0.0	0	164.5	389	505	0.0	0	0.0
6	Sep	0.0	0	2.6	9	191.7	453	589	0.0	0	0.0
6	Oct	1.1	11	16.5	56	216.0	510	663	0.0	0	0.0
6	Nov	1.6	16	30.1	102	229.8	543	706	0.0	0	0.0
6	Dec	25.4	254	25.2	85	244.7	578	752	0.0	0	0.0
7	Jan	51.5	515	120.3	406	231.1	546	710	0.0	0	0.0
7	Feb	259.2	2592	585.2	1975	192.6	455	592	0.0	0	0.0
7	Mar	317.9	3179	74.1	250	224.0	529	688	1711.6	0	1711.6
7	Apr	8.8	88	9.6	32	182.0	430	559	778.3	0	778.3
7	May	0.0	0	3.6	12	153.1	362	470	0.0	0	0.0
7	Jun	0.0	0	9.1	31	128.1	303	393	0.0	0	0.0
7	Jul	0.0	0	0.0	0	130.7	309	401	0.0	0	0.0
7	Aug	1.2	12	13.9	47	146.2	345	449	0.0	0	0.0
7	Sep	1.3	13	0.0	0	195.7	462	601	0.0	0	0.0
7	Oct	0.0	0	0.0	0	241.7	571	742	0.0	0	0.0
7	Nov	0.0	0	0.3	1	269.0	636	826	0.0	0	0.0
7	Dec	0.0	0	12.0	41	278.7	658	856	0.0	0	0.0
8	Jan	14.6	146	31.9	108	246.4	582	757	0.0	0	0.0
8	Feb	126.9	1269	276.6	934	190.2	449	584	0.0	0	0.0
8	Mar	129.1	1291	98.6	333	194.7	460	598	0.0	0	0.0
8	Apr	17.2	172	23.5	79	168.4	398	517	0.0	0	0.0
8	May	2.5	25	9.6	32	147.0	347	451	0.0	0	0.0
8	Jun	0.0	0	7.5	25	121.3	287	373	0.0	0	0.0
8	Jul	0.0	0	1.0	3	154.5	365	475	0.0	0	0.0
8	Aug	0.0	0	9.4	32	149.4	353	459	0.0	0	0.0
8	Sep	0.0	0	1.4	5	202.8	479	623	0.0	0	0.0
8	Oct	11.1	111	23.1	78	237.3	561	729	0.0	0	0.0
8	Nov	0.4	4	9.9	33	270.1	638	830	0.0	0	0.0
8	Dec	45.7	457	160.3	541	253.0	598	777	0.0	0	0.0
9	Jan	254.6	2546	360.2	1216	213.9	505	657	167.8	0	167.8
9	Feb	264.8	2648	433.8	1464	187.9	444	577	330.9	0	330.9
9	Mar	158.9	1589	24.0	81	196.2	464	603	772.6	0	772.6
9	Apr	7.4	74	63.2	213	169.3	400	520	0.0	0	0.0
9	May	27.4	274	6.4	22	126.9	300	390	0.0	0	0.0
9	Jun	0.0	0	0.8	3	125.4	296	385	0.0	0	0.0
9	Jul	0.0	0	5.4	18	125.7	297	386	0.0	0	0.0
9	Aug	0.0	0	0.3	1	162.8	385	500	0.0	0	0.0
9	Sep	0.0	0	9.9	33	188.7	446	580	0.0	0	0.0
9	Oct	0.0	0	1.0	3	236.5	559	726	0.0	0	0.0
9	Nov	0.4	4	22.5	76	247.8	585	761	0.0	0	0.0
9	Dec	85.6	856	175.7	593	221.9	524	682	0.0	0	0.0
10	Jan	137.7	1377	379.6	1281	203.1	480	624	0.0	0	0.0
10	Feb	218.6	2186	36.0	122	227.5	537	699	828.4	0	828.4
10	Mar	21.7	217	44.0	149	210.3	497	646	0.0	0	0.0
10	Apr	3.5	35	22.4	76	198.6	469	610	0.0	0	0.0
10	May	7.2	72	19.8	67	154.0	364	473	0.0	0	0.0
10	Jun	7.7	77	29.1	98	115.5	273	355	0.0	0	0.0
10	Jul	18.8	188	41.1	139	141.9	335	436	0.0	0	0.0
10	Aug	30.3	303	50.4	170	144.2	341	443	0.0	0	0.0
10	Sep	0.0	0	0.7	2	186.7	441	573	0.0	0	0.0
10	Oct	5.3	53	23.3	79	224.3	530	689	0.0	0	0.0
10	Nov	3.8	38	21.6	73	261.5	618	803	0.0	0	0.0
10	Dec	27.4	274	71.8	242	282.2	667	867	0.0	0	0.0
11	Jan	190.8	1908	528.1	1782	217.1	513	667	0.0	0	0.0
11	Feb	267.7	2677	27.3	92	218.4	516	671	1398.3	0	1398.3
11	Mar	73.9	739	165.7	559	188.9	446	580	551.7	0	551.7
11	Apr	201.4	2014	316.9	1070	119.8	283	368	845.7	0	845.7
11	May	45.4	454	38.7	131	115.7	273	355	539.9	0	539.9
11	Jun	0.0	0	13.6	46	114.9	271	353	0.0	0	0.0
11	Jul	11.8	118	34.3	116	118.6	280	364	0.0	0	0.0
11	Aug	0.9	9	1.6	5	162.0	383	498	0.0	0	0.0
11	Sep	35.2	352	62.7	212	187.7	443	576	0.0	0	0.0
11	Oct	0.3	3	8.9	30	229.7	543	705	0.0	0	0.0
11	Nov	0.0	0	1.1	4	252.3	596	775	0.0	0	0.0
11	Dec	19.4	194	53.4	180	249.6	590	767	0.0	0	0.0
12	Jan	77.3	773	421.8	1424	210.9	498	648	0.0	0	0.0
12	Feb	658.3	6583	695.3	2347	151.4	358	465	3414.2	0	3414.2
12	Mar	223.0	2230	52.7	178	193.4	457	594	4415.4	0	4415.4
12	Apr	3.7	37	3.7	12	193.7	458	595	3386.9	0	3386.9
12	May	0.0	0	2.4	8	160.2	378	492	2508.3	0	2508.3
12	Jun	44.2	442	110.7	374	92.3	218	283	2074.9	0	2074.9

12	Jul	14.5	145	0.4	1	125.5	296	385	1536.2	0	1536.2
12	Aug	0.0	0	6.6	22	152.1	359	467	687.4	0	687.4
12	Sep	0.0	0	9.3	31	177.6	420	545	0.0	0	0.0
12	Oct	14.1	141	29.1	98	235.7	557	724	0.0	0	0.0
12	Nov	6.7	67	160.0	540	240.4	568	738	0.0	0	0.0
12	Dec	119.6	1196	134.2	453	233.6	552	717	0.0	0	0.0
13	Jan	392.9	3929	650.9	2197	199.9	472	614	646.0	0	646.0
13	Feb	455.3	4553	726.5	2452	145.6	344	447	1956.3	0	1956.3
13	Mar	336.2	3362	15.2	51	193.3	457	594	4216.6	0	4216.6
13	Apr	8.3	83	0.9	3	178.3	421	548	3327.5	0	3327.5
13	May	0.0	0	0.6	2	156.3	369	480	2476.2	0	2476.2
13	Jun	0.0	0	1.5	5	123.2	291	378	1801.7	0	1801.7
13	Jul	18.1	181	87.4	295	119.2	282	366	1040.4	0	1040.4
13	Aug	48.8	488	0.0	0	151.5	358	465	705.1	0	705.1
13	Sep	0.0	0	14.1	48	187.2	442	575	0.0	0	0.0
13	Oct	1.8	18	11.8	40	258.8	611	795	0.0	0	0.0
13	Nov	10.7	107	93.9	317	223.5	528	686	0.0	0	0.0
13	Dec	104.0	1040	111.0	375	248.3	587	763	0.0	0	0.0
14	Jan	234.3	2343	668.3	2256	166.6	394	512	0.0	0	0.0
14	Feb	777.1	7771	1084.0	3659	140.4	332	431	3349.1	0	3349.1
14	Mar	433.0	4330	55.8	188	207.1	489	636	6365.7	700	5665.7
14	Apr	72.4	724	81.8	276	169.9	401	522	5890.6	700	4490.6
14	May	19.2	192	21.6	73	142.1	336	436	5237.8	700	3137.8
14	Jun	0.0	0	0.6	2	124.8	295	383	4557.7	0	2457.7
14	Jul	0.0	0	0.2	1	144.7	342	444	3770.7	0	1670.7
14	Aug	0.0	0	0.0	0	169.2	400	520	2851.3	0	751.3
14	Sep	0.0	0	4.0	14	223.7	528	687	1622.3	0	0.0
14	Oct	0.0	0	4.9	17	274.5	649	843	114.2	0	0.0
14	Nov	8.5	85	26.9	91	256.4	606	787	0.0	0	0.0
14	Dec	6.2	62	260.6	880	279.6	661	859	0.0	0	0.0
15	Jan	263.4	2634	530.9	1792	203.1	480	624	0.0	0	0.0
15	Feb	435.2	4352	518.7	1751	163.9	387	503	1710.7	0	1710.7
15	Mar	434.5	4345	276.4	933	173.8	411	534	4178.9	0	4178.9
15	Apr	135.7	1357	26.3	89	134.2	317	412	4718.1	0	4718.1
15	May	1.0	10	0.0	0	142.4	336	437	3954.1	0	3954.1
15	Jun	9.1	91	20.1	68	125.6	297	386	3295.1	0	3295.1
15	Jul	0.0	0	7.7	26	130.9	309	402	2557.8	0	2557.8
15	Aug	31.2	312	59.8	202	143.6	339	441	1888.0	0	1888.0
15	Sep	22.6	226	93.8	317	169.7	401	521	875.2	0	875.2
15	Oct	23.2	232	66.9	226	210.5	497	646	0.0	0	0.0
15	Nov	105.8	1058	270.4	913	166.9	394	513	0.0	0	0.0
15	Dec	120.1	1201	373.3	1260	171.5	405	527	0.0	0	0.0
16	Jan	223.7	2237	160.0	540	189.8	448	583	665.2	0	665.2
16	Feb	326.7	3267	575.5	1942	169.2	400	520	1070.6	0	1070.6
16	Mar	578.0	5780	934.5	3154	151.9	359	467	2871.0	0	2871.0
16	Apr	350.9	3509	64.2	217	153.8	363	472	5328.1	700	4628.1
16	May	20.6	206	24.5	83	144.5	341	444	4666.6	0	3966.6
16	Jun	3.4	34	13.2	45	121.9	288	374	3993.3	0	3293.3
16	Jul	0.0	0	2.1	7	129.0	305	396	3285.3	0	2585.3
16	Aug	0.0	0	1.4	5	163.6	387	502	2391.6	0	1691.6
16	Sep	0.0	0	0.0	0	197.3	466	606	1319.5	0	619.5
16	Oct	0.0	0	7.5	25	222.7	526	684	84.1	0	0.0
16	Nov	0.2	2	28.6	97	249.6	590	767	0.0	0	0.0
16	Dec	92.0	920	130.1	439	227.2	537	698	0.0	0	0.0
17	Jan	51.6	516	186.0	628	217.4	514	668	0.0	0	0.0
17	Feb	266.5	2665	349.6	1180	179.1	423	550	512.1	0	512.1
17	Mar	349.6	3496	722.5	2438	149.7	354	460	756.5	0	756.5
17	Apr	332.2	3322	9.8	33	170.8	404	525	3116.9	0	3116.9
17	May	16.4	164	62.1	210	148.4	351	456	2264.5	0	2264.5
17	Jun	43.4	434	40.9	138	100.0	236	307	2017.1	0	2017.1
17	Jul	84.2	842	125.3	423	117.8	278	362	1796.4	0	1796.4
17	Aug	13.0	130	2.3	8	147.3	348	452	1118.7	0	1118.7
17	Sep	0.0	0	10.0	34	186.2	440	572	73.5	0	73.5
17	Oct	0.0	0	0.0	0	249.5	589	766	0.0	0	0.0
17	Nov	0.0	0	6.0	20	263.6	623	810	0.0	0	0.0
17	Dec	4.5	45	26.0	88	276.6	653	850	0.0	0	0.0
18	Jan	133.1	1331	392.0	1323	261.3	617	803	0.0	0	0.0
18	Feb	242.1	2421	96.5	326	208.1	492	639	964.5	0	964.5
18	Mar	45.4	454	95.4	322	195.4	462	600	34.4	0	34.4
18	Apr	35.5	355	61.1	206	157.9	373	485	0.0	0	0.0
18	May	14.7	147	44.4	150	143.4	339	440	0.0	0	0.0
18	Jun	4.8	48	1.1	4	130.8	309	402	0.0	0	0.0
18	Jul	0.0	0	1.1	4	149.5	353	459	0.0	0	0.0
18	Aug	0.0	0	1.0	3	164.3	388	505	0.0	0	0.0
18	Sep	0.0	0	4.0	14	212.2	501	652	0.0	0	0.0
18	Oct	9.8	98	24.8	84	264.8	626	813	0.0	0	0.0
18	Nov	44.8	448	125.9	425	218.0	515	670	0.0	0	0.0
18	Dec	43.2	432	7.1	24	297.6	703	914	0.0	0	0.0
19	Jan	27.9	279	146.3	494	269.4	636	827	0.0	0	0.0
19	Feb	239.9	2399	500.1	1688	180.6	427	555	0.0	0	0.0
19	Mar	246.9	2469	150.6	508	188.3	445	578	937.9	0	937.9
19	Apr	322.4	3224	356.0	1202	153.9	364	473	2124.5	0	2124.5

19	May	93.0	930	10.0	34	152.7	361	469	2191.1	0	2191.1
19	Jun	23.7	237	47.0	159	117.0	276	359	1633.9	0	1633.9
19	Jul	1.0	10	3.2	11	132.6	313	407	912.2	0	912.2
19	Aug	25.5	255	47.0	159	185.7	439	570	0.0	0	0.0
19	Sep	4.5	45	0.4	1	198.3	468	609	0.0	0	0.0
19	Oct	0.0	0	2.0	7	278.1	657	854	0.0	0	0.0
19	Nov	0.0	0	13.8	47	273.1	645	839	0.0	0	0.0
19	Dec	42.5	425	67.6	228	278.1	657	854	0.0	0	0.0
20	Jan	137.0	1370	308.0	1040	221.5	523	680	0.0	0	0.0
20	Feb	80.4	804	40.1	135	224.0	529	688	0.0	0	0.0
20	Mar	1.1	11	14.0	47	259.4	613	797	0.0	0	0.0
20	Apr	5.1	51	31.8	107	210.9	498	648	0.0	0	0.0
20	May	0.0	0	2.4	8	180.3	426	554	0.0	0	0.0
20	Jun	0.0	0	18.6	63	142.6	337	438	0.0	0	0.0
20	Jul	1.6	16	0.0	0	154.5	365	475	0.0	0	0.0
20	Aug	0.0	0	0.0	0	180.3	426	554	0.0	0	0.0
20	Sep	0.0	0	2.5	8	238.3	563	732	0.0	0	0.0
20	Oct	0.0	0	0.2	1	291.7	689	896	0.0	0	0.0
20	Nov	0.0	0	13.8	47	267.5	632	822	0.0	0	0.0
20	Dec	26.3	263	172.6	583	287.5	679	883	0.0	0	0.0
21	Jan	120.6	1206	63.6	215	263.1	622	808	0.0	0	0.0
21	Feb	54.0	540	83.7	282	199.0	470	611	0.0	0	0.0
21	Mar	312.0	3120	626.5	2114	190.0	449	584	0.0	0	0.0
21	Apr	207.1	2071	13.6	46	196.0	463	602	959.7	0	959.7
21	May	2.7	27	7.3	25	165.3	391	508	64.1	0	64.1
21	Jun	29.9	299	79.0	267	128.8	304	396	0.0	0	0.0
21	Jul	42.3	423	52.7	178	126.8	300	389	0.0	0	0.0
21	Aug	4.4	44	29.4	99	164.3	388	505	0.0	0	0.0
21	Sep	17.7	177	35.7	120	187.6	443	576	0.0	0	0.0
21	Oct	0.4	4	13.3	45	262.2	619	805	0.0	0	0.0
21	Nov	0.0	0	6.3	21	278.5	658	855	0.0	0	0.0
21	Dec	32.8	328	78.1	264	253.3	598	778	0.0	0	0.0
22	Jan	163.8	1638	312.8	1056	226.8	536	697	0.0	0	0.0
22	Feb	81.4	814	82.0	277	202.5	478	622	0.0	0	0.0
22	Mar	58.9	589	196.2	662	185.4	438	569	0.0	0	0.0
22	Apr	59.4	594	4.5	15	188.1	444	578	0.0	0	0.0
22	May	59.5	595	140.8	475	142.5	337	438	0.0	0	0.0
22	Jun	52.8	528	1.3	4	120.1	284	369	0.0	0	0.0
22	Jul	0.0	0	1.6	5	134.7	318	414	0.0	0	0.0
22	Aug	0.0	0	9.6	32	173.5	410	533	0.0	0	0.0
22	Sep	0.0	0	0.6	2	192.3	454	591	0.0	0	0.0
22	Oct	51.3	513	162.2	547	204.0	482	627	0.0	0	0.0
22	Nov	68.5	685	57.5	194	233.2	551	716	0.0	0	0.0
22	Dec	17.4	174	20.1	68	284.8	673	875	0.0	0	0.0
23	Jan	60.4	604	136.7	461	234.4	554	720	0.0	0	0.0
23	Feb	55.3	553	571.5	1929	188.6	446	579	0.0	0	0.0
23	Mar	590.1	5901	415.2	1401	188.3	445	578	3476.6	0	3476.6
23	Apr	193.9	1939	13.0	44	168.9	399	519	4453.8	0	4453.8
23	May	2.7	27	7.2	24	157.2	371	483	3602.2	0	3602.2
23	Jun	0.0	0	0.7	2	128.1	303	393	2903.7	0	2903.7
23	Jul	0.6	6	12.3	42	139.2	329	428	2111.7	0	2111.7
23	Aug	0.0	0	0.0	0	182.2	430	560	1121.7	0	1121.7
23	Sep	2.6	26	14.0	47	223.2	527	686	0.0	0	0.0
23	Oct	17.2	172	28.6	97	243.1	574	747	0.0	0	0.0
23	Nov	3.6	36	23.8	80	299.2	707	919	0.0	0	0.0
23	Dec	174.5	1745	308.0	1040	238.8	564	733	0.0	0	0.0
24	Jan	77.2	772	529.2	1786	254.3	601	781	0.0	0	0.0
24	Feb	990.3	9903	1058.7	3573	203.0	480	623	5226.8	700	4526.8
24	Mar	437.3	4373	296.3	1000	172.3	407	529	7663.9	700	6263.9
24	Apr	167.0	1670	30.5	103	173.1	409	532	8290.4	700	6190.4
24	May	3.5	35	7.9	27	149.0	352	458	7488.9	700	4688.9
24	Jun	0.0	0	9.0	30	127.7	302	392	6764.6	700	3264.6
24	Jul	6.9	69	19.8	67	134.5	318	413	6035.5	700	1835.5
24	Aug	0.0	0	0.0	0	181.1	428	556	5051.4	0	851.4
24	Sep	0.0	0	0.0	0	217.5	514	668	3869.6	0	0.0
24	Oct	0.0	0	1.4	5	263.2	622	808	2434.7	0	0.0
24	Nov	0.0	0	0.6	2	285.7	675	877	880.3	0	0.0
24	Dec	0.0	0	6.9	23	303.6	717	932	0.0	0	0.0
25	Jan	68.2	682	388.2	1310	251.0	593	771	0.0	0	0.0
25	Feb	223.7	2237	332.6	1123	176.6	417	542	155.0	0	155.0
25	Mar	295.5	2955	97.2	328	178.4	421	548	1812.7	0	1812.7
25	Apr	14.3	143	8.6	29	162.8	385	500	1042.3	0	1042.3
25	May	15.8	158	93.8	317	136.9	323	420	140.1	0	140.1
25	Jun	44.5	445	10.6	36	112.5	266	346	0.0	0	0.0
25	Jul	5.0	50	22.0	74	132.2	312	406	0.0	0	0.0
25	Aug	5.0	50	3.0	10	159.8	378	491	0.0	0	0.0
25	Sep	0.0	0	0.2	1	187.6	443	576	0.0	0	0.0
25	Oct	0.0	0	12.4	42	253.4	599	778	0.0	0	0.0
25	Nov	0.0	0	1.8	6	258.8	611	795	0.0	0	0.0
25	Dec	27.1	271	232.6	785	238.8	564	733	0.0	0	0.0
26	Jan	364.4	3644	339.0	1144	192.2	454	590	1455.5	0	1455.5
26	Feb	102.2	1022	232.5	785	156.0	369	479	844.8	0	844.8

26	Mar	177.6	1776	192.5	650	186.7	441	573	957.1	0	957.1
26	Apr	45.4	454	109.0	368	138.6	327	426	290.4	0	290.4
26	May	44.3	443	0.0	0	138.7	328	426	0.0	0	0.0
26	Jun	0.0	0	12.6	43	113.8	269	350	0.0	0	0.0
26	Jul	0.1	1	12.5	42	131.6	311	404	0.0	0	0.0
26	Aug	0.0	0	21.0	71	152.3	360	468	0.0	0	0.0
26	Sep	18.6	186	15.0	51	194.0	458	596	0.0	0	0.0
26	Oct	5.6	56	24.0	81	235.1	555	722	0.0	0	0.0
26	Nov	68.8	688	273.5	923	218.1	515	670	0.0	0	0.0
26	Dec	116.7	1167	96.0	324	226.9	536	697	0.0	0	0.0
27	Jan	90.9	909	331.6	1119	203.3	480	624	0.0	0	0.0
27	Feb	281.3	2813	121.0	408	188.0	444	577	1383.0	0	1383.0
27	Mar	24.7	247	18.0	61	212.6	502	653	414.0	0	414.0
27	Apr	41.9	419	344.0	1161	172.9	408	531	0.0	0	0.0
27	May	391.7	3917	211.5	714	135.3	320	416	2468.2	0	2468.2
27	Jun	72.9	729	45.0	152	126.4	299	388	2358.0	0	2358.0
27	Jul	41.4	414	61.0	206	120.4	284	370	1912.3	0	1912.3
27	Aug	0.6	6	5.9	20	150.8	356	463	1079.0	0	1079.0
27	Sep	11.9	119	35.0	118	166.9	394	513	173.1	0	173.1
27	Oct	25.9	259	79.7	269	210.5	497	646	0.0	0	0.0
27	Nov	38.0	380	146.0	493	238.6	564	733	0.0	0	0.0
27	Dec	138.4	1384	173.0	584	225.5	533	693	0.0	0	0.0
28	Jan	271.2	2712	500.0	1688	210.6	498	647	0.0	0	0.0
28	Feb	368.3	3683	363.5	1227	165.6	391	509	1556.1	0	1556.1
28	Mar	136.8	1368	118.0	398	182.2	430	560	1535.6	0	1535.6
28	Apr	100.9	1009	155.0	523	163.8	387	503	1131.7	0	1131.7
28	May	5.7	57	0.0	0	165.1	390	507	291.8	0	291.8
28	Jun	0.0	0	3.0	10	130.8	309	402	0.0	0	0.0
28	Jul	37.6	376	70.0	236	130.9	309	402	0.0	0	0.0
28	Aug	2.9	29	8.0	27	168.9	399	519	0.0	0	0.0
28	Sep	0.0	0	10.0	34	215.6	509	662	0.0	0	0.0
28	Oct	9.8	98	33.0	111	261.6	618	803	0.0	0	0.0
28	Nov	0.2	2	25.0	84	238.0	562	731	0.0	0	0.0
28	Dec	47.1	471	149.5	505	227.5	537	699	0.0	0	0.0
29	Jan	195.5	1955	397.0	1340	196.8	465	604	0.0	0	0.0
29	Feb	150.8	1508	355.0	1198	169.8	401	521	0.0	0	0.0
29	Mar	229.8	2298	155.5	525	186.8	441	574	757.8	0	757.8
29	Apr	59.2	592	42.0	142	162.7	384	500	324.3	0	324.3
29	May	0.2	2	13.0	44	136.0	321	418	0.0	0	0.0
29	Jun	0.5	5	34.0	115	114.2	270	351	0.0	0	0.0
29	Jul	15.0	150	3.0	10	134.7	318	414	0.0	0	0.0
29	Aug	51.2	512	79.0	267	158.5	374	487	0.0	0	0.0
29	Sep	7.5	75	0.0	0	199.0	470	611	0.0	0	0.0
29	Oct	0.0	0	7.0	24	251.5	594	772	0.0	0	0.0
29	Nov	5.4	54	26.8	90	240.7	569	739	0.0	0	0.0
29	Dec	306.8	3068	680.5	2297	228.3	539	701	0.0	0	0.0
30	Jan	272.2	2722	144.9	489	211.2	499	649	1085.0	0	1085.0
30	Feb	996.7	9967	1568.0	5292	165.8	392	509	4859.3	0	4859.3
30	Mar	689.5	6895	864.0	2916	164.5	389	505	7944.8	700	7244.8
30	Apr	551.0	5510	139.0	469	150.0	354	461	12170.7	700	10770.7
30	May	60.9	609	42.5	143	126.1	298	387	11950.6	700	9850.6
30	Jun	20.3	203	25.0	84	111.0	262	341	11466.1	700	8666.1
30	Jul	11.1	111	44.5	150	119.0	281	365	10780.6	700	7280.6
30	Aug	9.4	94	0.0	0	159.9	378	491	10005.8	700	5805.8
30	Sep	0.0	0	0.0	0	197.0	465	605	8935.4	700	4035.4
30	Oct	0.0	0	6.8	23	250.2	591	768	7552.9	700	1952.9
30	Nov	0.0	0	15.0	51	234.6	554	721	6227.7	700	0.0
30	Dec	14.6	146	336.4	1135	221.1	522	679	4036.9	0	0.0

Attachment 3



					CONTOUR & DETAIL PLAN			 Airlie Beach Mackay Townsville Rockhampton SE Qld Melbourne E : reception@vsqld.com.au P : 13000VISION			
					PROJECT: Aerial Image and Longsection						
					LOCATION: Bluewater Lanfill						
					Real Property Description: Lot 1 on RP735647						
A	Original Issue			CJM	CJM	20/11/2025			CLIENT: Absolute Waste		
Rev	Description			Drawn	Checked	Date			Horizontal Datum: MGA2020 Zone 55 vide GNSS		
This plan is prepared from a combination of field survey and existing records for the purpose of designing new constructions on the land and should not be used for any other purpose. The title boundaries shown hereon were not marked by the author at the time of survey and have been determined by plan dimensions only and not by field measurement. Services shown hereon have been located where possible by field survey. If not able to be located, services may have been plotted from the records of relevant authorities where available. Prior to any demolition, excavation or construction on the site, the relevant authority should be contacted for possible location of further underground services and detailed locations of all services. This note is an integral part of this plan.									Vertical Datum: vie PSM 146074		
						Local Authority: Townsville City Council			Scale: AS SHOWN		
						Contour Interval: 1.0m			Drawing No: 24974-LS-01		
									Drawn: CJM		
									Sheet: 1 of 1		
									Surveyor: BM/CJM		
									Revision: A		

Attachment 4



Street View 1: View of the entrance to the subject site from the Bruce Highway (Source: Google Maps)



Street View 2: View of the entrance to the subject site from the Bruce Highway (Source: Google Maps)



Street View 3: View of the Site travelling north on the Bruce Highway (Source: Google Maps)



Street View 4: View of the Site travelling north on the Bruce Highway (Source: Google Maps)



Street View 5: View of the of the site travelling south along the Bruce Highway (Source: Google Maps)

Attachment 5



Reference No. 202435-5
Prepared for Absolute Waste Pty Ltd
13 January 2026

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The information within this document is and shall remain the property of:
Terra Solutions Pty Ltd and Absolute Waste Pty Ltd.

Important Notice

This report is confidential and is provided solely for the purposes of the Bushfire Management Plan of the Bluewater Waste Management Facility at 42386 Bruce Highway. This report is provided pursuant to a Consultancy Agreement between Terra Solutions Pty Ltd ("Terra Solutions") and Absolute Waste Pty Ltd, under which Terra Solutions undertook to perform a specific and limited task for Absolute Waste Pty Ltd. This report is strictly limited to the matters stated in it and subject to the various assumptions, qualifications, and limitations in it and does not apply by implication to other matters. Terra Solutions makes no representation that the scope, assumptions, qualifications, and exclusions set out in this report will be suitable or sufficient for other purposes nor that the content of the report covers all matters which you may regard as material for your purposes.

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1 Executive Summary

Terra Solutions Pty Ltd was engaged by Absolute Waste Pty Ltd to undertake a Bushfire Hazard Assessment and prepare a Bushfire Management Plan for a proposed capacity increase to the existing Bluewater Waste Management Facility. The Project is located at 42386 Bruce Highway, Bluewater on Lot 1 RP735647 approximately 40 km north-west of Townsville. (Figure 1).

Townsville City Council has issued a Request for Information regarding the proposed capacity increase. The Request seeks additional information relating to bushfire management. This Bushfire Management Plan has been prepared to address the bushfire matters relevant to Council assessment.

This Bushfire Management Plan presents the findings of the hazard assessment and identifies measures to manage bushfire risk to acceptable levels. The assessment has considered the *State Planning Policy - Bushfire Resilient Communities July 2017* (SPP) and *Townsville City Plan Version 2024/01* (Townsville City Plan). The hazard assessment is provided in Section 3 and results and compliance are provided in Section 4. Bushfire protection measures and operational requirements are set out in Section 5. Recommended emergency preparedness measures are outlined in Section 6.

The following measures are proposed to manage bushfire risk.

Recommendation 1 – Asset protection zones (APZ) and vegetation management

Asset Protection Zones are to be established and maintained around all buildings for the life of the facility. An APZ is to be established within the lot, external to all buildings. The width of the Asset Protection Zone around each building is to be the greater of 10 m or the separation distance derived from the bushfire hazard assessment outputs presented in Table 2. Vegetation within Asset Protection Zones is to be managed in accordance with the defendable space requirements in Section 5.4 and integrated with the routine operational vegetation management in Section 5.10.2.

Recommendation 2 – Siting and building protection measures

Future development is to be in areas of lower bushfire risk and designed to reduce vulnerability to bushfire attack.

Buildings within bushfire prone land or within the Asset Protection Zone are to incorporate measures to reduce exposure to ember attack and radiant heat, consistent with the design, siting and construction provisions outlined in Sections 5.1, 5.6 and 5.9.

Buildings used for the storage or handling of hazardous or combustible materials are to be prioritised for ember protection measures due to the increased consequences associated with ignition. Detailed ember protection requirements are provided in Section 5.6.1 and related hazardous materials controls in Section 5.9.

Recommendation 3 - Landscaping and rehabilitation design controls

Revegetation rehabilitation and visual screening vegetation are to be designed and located so they do not increase bushfire hazard or create additional bushfire prone areas over time. Any proposed visual screening vegetation must be located outside the perimeter asset protection zone and access track.

Landscaping and rehabilitation areas are to be managed to maintain low and discontinuous fuel structures consistent with Section 5.5. A maintenance plan is to specify that revegetation and rehabilitation areas are designed and managed to achieve a potential fuel load less than 8 tonnes per hectare in aggregate and a discontinuous fuel structure. Within the asset protection zone shrubs are to be maintained with discontinuous cover and grasses are to be maintained to 50 to 75 mm, consistent with Section 5.4.

Recommendation 4 – Water supply for firefighting

Firefighting water supply is to be provided in accordance with Section 5.8. Where a reticulated water supply is available, but compliant hydrant coverage is not present, the system is to be extended or upgraded to provide hydrant access within 70 m of buildings. Where a reticulated supply is not available, static water supplies are to be provided. All water supply locations are to remain accessible and clearly identifiable for responding emergency services.

Reticulated water supply infrastructure is to be located to provide unobstructed access for fire services. Access tracks and fire hydrants are designed and installed in accordance with:

1. Fire Hydrant and Vehicle Access Guidelines for residential, commercial, and industrial lots, Queensland Fire and Emergency Services, 2015, unless otherwise specified by the relevant water entity; and
2. The Road Planning and Design Manual 2nd edition, Department of Transport and Main Roads, 2013.

A review of water access points is to be undertaken and rationalised as required. Where reticulated water is not provided within 70 m of a building a static water supply fitted with appropriate firefighting fittings is to be installed.

Recommendation 5 – Access and internal circulation

Access arrangements are to support emergency vehicle access, facility operations and safe withdrawal where required. The perimeter and internal access network is to be maintained in accordance with the Townsville City Plan bushfire overlay acceptable outcomes and the design standards outlined in Section 5.7. Access routes are to always remain operational.

The site is served by a single all weather public road connection to the Bruce Highway. This access point is to be always maintained in an operational condition. Internal access roads and perimeter fire trails are to provide circulation within the site.

A fire access trail is to be provided around the perimeter of the facility and integrated with the access and APZ arrangements described in Sections 5.4 and 5.7. The trail is to be constructed in accordance with the acceptable outcomes of the Townsville City Plan – Bushfire Overlay Code. The perimeter and internal trail system must comply with the following:

- A minimum cleared width of 6m and a minimum formed width of 4m.
- Vehicle access at each end.
- Passing bays and turning areas for firefighting appliances.
- Located within the site and managed to remain accessible for emergency services.
- Maximum gradient of 12.5 percent.
- No dead ends.

Access to all buildings and firefighting water supply infrastructure is to be designed and installed in accordance with the Fire Hydrant and Vehicle Access Guidelines for residential, commercial, and industrial lots, Queensland Fire and Emergency Services (2015) to ensure Category 1 fire appliance access where required.

Recommendation 6 – Operational ignition controls and fire danger rating based restrictions

Operational controls are to be applied to manage ignition risk associated with landfill activities, plant and equipment. Fire Danger Ratings and Total Fire Bans are to inform activity restrictions, preparedness measures and response actions during the bushfire season, consistent with Sections 5.3 and 5.10.

Recommendation 7 - Recommended emergency preparedness measures

Operational bushfire preparedness and response measures are embedded within routine site operations as outlined in Section 5.10. In addition, recommended emergency preparedness measures are provided in Section 6 to support site readiness, staff awareness and continuous improvement. These recommendations complement, but do not replace, the operational requirements of this Plan.

2 Introduction

Terra Solutions were engaged by Absolute Waste to undertake a Bushfire Hazard Assessment (BHA) and prepare a Bushfire Management Plan (BMP) for a proposed capacity increase to the existing Bluewater Waste Management Facility (the Project). The Bluewater Waste Management Facility is located at 42386 Bruce Highway, Bluewater on Lot 1/RP735647 (the Lot) approximately 40 km north-west of Townsville (Figure 1).

Townsville City Council has issued a Request for Information (RFI) regarding the proposed capacity increase at the Bluewater Waste Management Facility. The RFI seeks additional clarification on two key matters: bushfire management and visual amenity. This BMP seeks to clarify the bushfire component required to support Council's assessment.

The site currently operates under the Bluewater Landfill Fire Prevention and Contingency Plan (2025), developed to meet Environmental Authority (EA) conditions and Department of Environment, Tourism, Science and Innovation (DETSI) expectations following the February flood inspections. That plan focused on the management of fires originating within the landfill, including prevention, detection, response and reporting. While the existing plant satisfies EA requirements, it does not address broader planning considerations relating to external bushfire risk, landscape-scale hazard, potential fire behaviour approaching the site or mitigation measures under Council's bushfire hazard overlay.

The Bushfire Management Plan is required to demonstrate compliance with Townsville City Plan 2024/01 and State Planning Policy state interest guidance material for Natural hazards, risk and resilience, Bushfire (SPP guidance) in accordance with the assessment and reporting requirements within the State Planning Policy - Bushfire resilient communities July 2017.

This BMP considers the level of bushfire risk and recommends protection measures to mitigate the risk for the proposed future use of the subject site. The purpose of this BMP is to assess the bushfire risk at the site, provide protection measures to manage and mitigate risks associated with bushfire, provide for the protection of human life (including fire-fighters), and minimise impacts on property from the threat of bushfire.

It is clear from the investigation and assessment that the subject site is located within bushfire prone land.

2.1 Objectives of Assessment

The objective of this BMP is to apply the assessment and reporting requirements of the SPP to quantify the bushfire threat and provide a range of Bushfire Protection Measures (BPMs) that satisfy the requirements of Townsville City Plan and SPP guidance.

The BPMs recommended within this report will provide certainty to the approval authorities that bushfire risks can be managed to acceptable levels in accordance with the core concepts identified within SPP guidance and include:

- Identification of bushfire prone land
- Application of adequate APZ
- Protection of community infrastructure and essential services
- Establishment of an acceptable development footprint
- Integration of fire trails and working areas
- Management of hazardous materials
- Identification of highly hazardous vegetation
- Identification of impact buffer
- Consideration of community resilience

The broad strategies to manage bushfire risk within this BMP include:

- Identification of highly hazardous vegetation and bushfire prone areas
- Establish defensible spaces and APZ (impact buffer) through vegetation management and creating separation between the built environment and bushfire hazard
- Recommend appropriate landscaping and landscaping design within the impact buffer to minimise opportunities for ignition and fire spread within the proposed development

- Recommendations for siting of adequate bush fire suppression measures such as water, fire trails and firefighter working areas to facilitate emergency management and evacuation
- Siting and protection of hazardous materials and potential ignition sources such as electricity, gas, and hazardous materials
- Siting and design of the development to improve resilience to bushfire events

2.2 Suitably Qualified Person

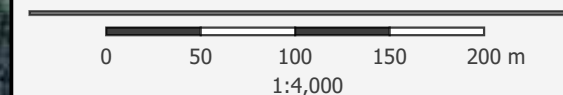
This BMP was prepared by Alex Leurquin and reviewed by Duncan Scott-Lawson. Duncan has over 20-years' experience in the bushfire industry. Duncan is top tier level 3 Bushfire Planning and Design (BPAD) fully accredited through Fire Protection Association Australia, completing tertiary education in Environmental Sciences (Hons) and Graduate Diploma in Bushfire Protection.



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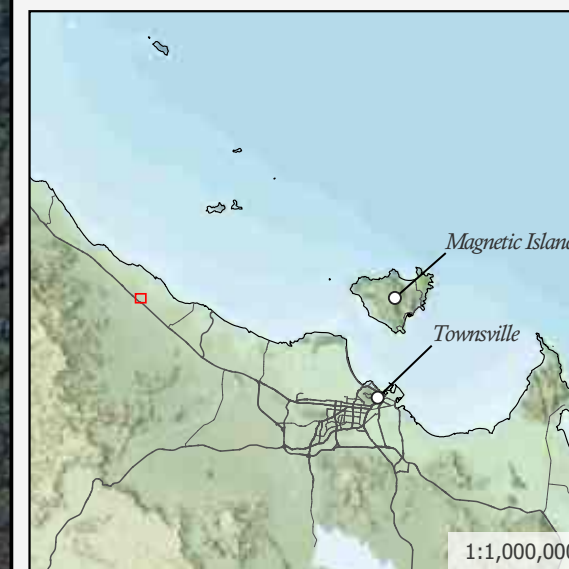
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FIGURE 1: SITE LOCATION AND LAYOUT



LEGEND:

- Highways and Roads
- ▭ Lot 1 on RP735647
- ▭ Existing Infrastructure



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COORDINATE SYSTEM: GDA2020 / MGA zone 55

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3 Bushfire Hazard Assessment

3.1 Bushfire Risk

Bushfire is a natural feature of Australia's environment, particularly in eucalypt forests. Frequency and intensity vary across regions and seasons, and fires are more common during drier periods.

Climate change is projected to lengthen bushfire seasons in parts of Australia and increase the number of extreme fire weather days and fire intensity.

Low to moderate intensity fires often pose limited risk to life, property and assets, although shifts in wind direction can create hazards. Fires burning in heavy fuels, steep terrain or during hot, dry and windy conditions can spread rapidly, crown in forests, generate strong convection columns and create extensive spotting, often making suppression impossible until conditions ease.

When fire danger reaches Extreme, fires can behave as firestorms and cannot be controlled. Under Catastrophic conditions, the risk of serious injury or death increases markedly, and many properties and infrastructure become difficult or impossible to defend.

Bushfire intensity, which largely determines potential damage, is influenced by fuel characteristics, weather conditions and topography including slope and aspect.

Vulnerability to bushfire risk reflects both a person's location and their capacity to understand and respond to the hazard. Australian fire agencies advise that the safest option is for people to be away from a bushfire or potential bushfire threat as early as possible.

3.1.1 Climate Change

Many studies have examined weather variables such as drought, temperature, wind and rainfall, along with climate drivers including the El Niño La Niña Southern Oscillation and the Indian Ocean Dipole, to assess broad shifts in fire risk.

Lucas (2010) showed that climate change is likely to increase the frequency of high Forest Fire Danger Index conditions across Australia. Douglas (2017) extended this work by analysing the dominant weather patterns associated with elevated FDI at major Bureau of Meteorology stations and how these patterns may change under future climates.

Both studies were limited by the availability of long-term observations because the required variables (air temperature, relative humidity, wind speed and rainfall) were historically measured only at major stations. Since the mid-1990s the expansion of automatic weather stations has improved spatial coverage and data continuity.

Overall, the findings of Lucas and Douglas indicate a consistent trend toward increasing FFDI under future climatic conditions.

3.2 Bushfire Season

Bushfires in northern Queensland occur mainly during the dry season with the highest risk from June to December. Risk increases when vegetation carries high fuel loads and fuel moisture is low, combined with strong winds, high temperatures, and low relative humidity. Common ignition sources include escaped hazard reduction burns, lightning, arson, accidental ignitions, and deliberate incendiary activity.

3.3 Bushfire Hazard Reliability Assessment

The purpose of the reliability assessment is to confirm the accuracy of existing bushfire prone area mapping and to streamline the detailed BHA process. The assessment covers the site and all land within 150 m, with hazardous vegetation classifications supported by on-site vegetation surveys.

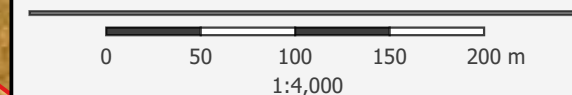
Regional bushfire hazard mapping from the State Planning Policy Interactive Mapping System identifies medium and high potential bushfire intensity areas within and adjacent to the project area as shown in Figure 2. At the landscape scale, high and medium potential bushfire intensity areas including woodlands and forests occur in all directions. Given the presence of vegetation capable of generating a bushfire hazard, it is necessary to demonstrate that the project can manage fire risks to an acceptable level.

The site visit confirmed that the area is bushfire prone, slope information is accurate, and the existing bushfire prone area mapping is appropriate for application.



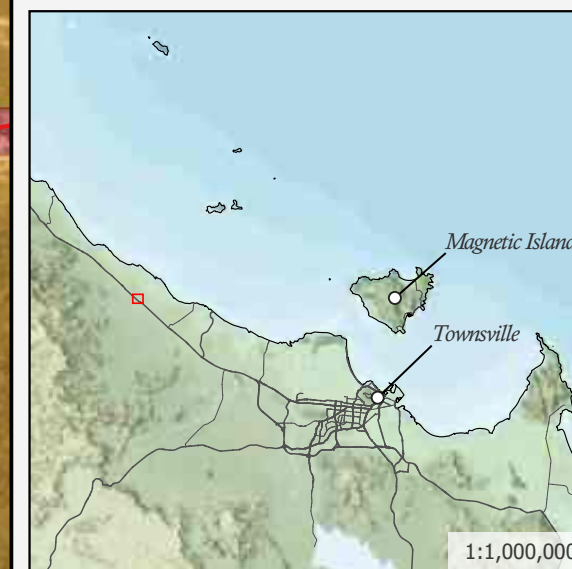
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FIGURE 2: BUSHFIRE PRONE AREA



LEGEND:

- Highways and Roads
 - Existing Infrastructure
 - Infrastructure with 150 m Buffer
 - Lot 1 on RP735647
- Bushfire Prone Area Intensity
- High Potential Bushfire Intensity
 - Medium Potential Bushfire Intensity
 - Potential Impact Buffer



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3.4 BHA Assessment Methodology

The assessment of the vegetation, slope and other bushfire characteristics within and surrounding the site has been carried out with the aid of the following:

- QLD Globe aerial photograph interpretation.
- Contour and LiDAR Digital Elevation Models (DEM).
- Bushfire Overlays.
- Reference to regional vegetation community mapping, and
- Site assessment (Terra Solutions) in 2025.

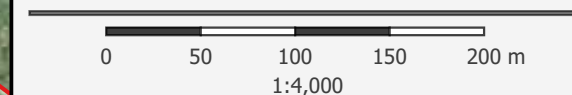
3.5 Fire Severity

Potential severe fire weather mapping shows regional variation across Queensland in the likelihood of a hot dry and windy day with limited preceding rainfall. CSIRO developed these maps for Queensland using the Forest Fire Danger Index methodology of McArthur (1973). The mapping represents conditions expected to be exceeded about once every 20 years, corresponding to a 5 percent chance of exceedance in any given year (DILGP 2016). Although more severe events can occur, these conditions are considered appropriate for determining required bushfire risk mitigation measures (Rural Fire Service 2014). The potential severe fire weather dataset assigns a value of 51 in and around the site as shown in Figure 3.



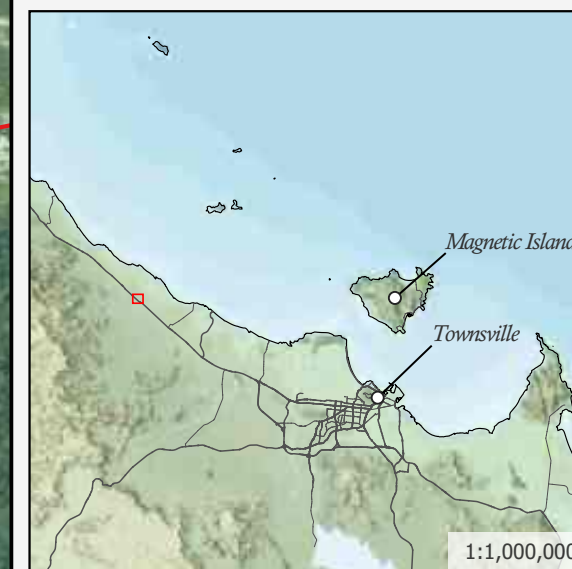
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FIGURE 3: FIRE WEATHER SEVERITY



LEGEND:

- Highways and Roads
- Existing Infrastructure
- Infrastructure with 150 m Buffer
- Lot 1 on RP735647
- Fire Weather Severity
- 51



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3.6 Vegetation Assessment

The vegetation assessment by Terra Solutions (2025) identified three vegetation communities within the site (Figure 4). These communities were broadly consistent with the Regional Ecosystem mapping and the associated Vegetation Hazard Class (VHC) values showing in Table 1.

3.6.1 Vegetation Exclusions & Downgrades

The Bushfire Attack Level may be classified as BAL Low where vegetation meets one or more of the following criteria:

- Vegetation of any type located 100 m or more from the site
- Single vegetation areas less than 1 ha and not within 100 m of other classified vegetation
- Multiple vegetation areas less than 0.25 ha and not within 20 m of the site or each other
- Strips of vegetation less than 20 m wide measured perpendicular to the exposed elevation regardless of length and not within 20 m of the site, each other or other classified vegetation
- Non vegetated areas including waterways, roads, footpaths, buildings and rocky outcrops.
- Low threat vegetation including grassland managed to minimal fuel conditions, maintained lawns, golf courses, maintained public reserves, parklands, orchards, cultivated gardens, commercial nurseries, nature strips and windbreaks where the available fuel is insufficient to significantly increase bushfire attack.

Assessment of vegetation in and around the site confirms that no exclusions or downgrades apply.

When determining bushfire risk, the predominant vegetation formation is the key factor influencing potential fire intensity. In Queensland the Vegetation Hazard Classification (VHC) is mapped in the Bushfire Prone Area VHC vector dataset (CSIRO 2014). Because this dataset is mapped at a scale of 1:2 million it can misrepresent vegetation hazard at finer scales.

A site investigation was undertaken to confirm the VHCs present. The assessment verified the vegetation types and found them to be broadly consistent with current VHC mapping. The validated VHCs and their associated potential fuel loads are presented in Table 1.

The bushfire protection measures outlined in the following sections are based on the 80th percentile fuel load for each vegetation hazard class. It is noted that a denser than typical mid-storey or the presence of invasive weeds can increase fuel loads within any vegetation community.

If future operational works involve vegetation clearing a modest reduction in fire risk is expected.

Table 1: Regional Ecosystem Mapping

Vegetation Community	Regional Ecosystems	Vegetation Hazard Class and description	Potential fuel load (t/ha)	Fuel continuity(t/ha)
Melaleuca woodland	7.3.8a - <i>Melaleuca viridiflora</i> open forest to open woodland. Includes areas of natural invasion onto former grasslands.	21.2 Melaleuca dry woodlands on sandplains or depositional plains	8.7	1
Melaleuca woodland	7.3.8b - <i>Melaleuca viridiflora</i> +/- <i>Eucalyptus</i> spp. +/- <i>Lophostemon suaveolens</i> open forest to open woodland on poorly drained alluvial plains	21.2 Melaleuca dry woodlands on sandplains or depositional plains	8.7	1
Corymbia clarksoniana woodland	7.3.45a - <i>Eucalyptus drepanophylla</i> , <i>Corymbia clarksoniana</i> , +/- <i>E. platyphylla</i> , +/- <i>C. tessellaris</i> , +/- <i>C. dallachiana</i> woodland to open forest. Lowland alluvial plains of southern, drier areas.	9.2 Moist to dry eucalypt open forest of coastal lowlands and ranges	17.2	1

3.7 Slope Assessment

Effective slope has a direct influence on the potential rate of fire spread and the rate of fuel consumption. Site slope refers to the ground slope between the edge of the proposed development or site boundary and the edge of hazardous vegetation. AS3959 defines it as the slope under the classified vegetation that most strongly influences the resulting Bushfire Attack Level.

3.7.1 Effective & Site Slope Assessment

The effective slope is the slope of the ground beneath the hazardous vegetation. The slope between the hazardous vegetation and the infrastructure is the site slope. When identifying these slopes multiple slope segments may be present over different distances. The effective slope is the slope under the vegetation that will most strongly influence bushfire behaviour for each aspect.

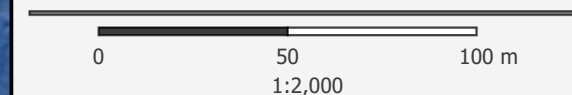
The site's topography and surrounding landscape were assessed to determine the maximum slope within the area of classified vegetation. Slope data were derived from a high-resolution LiDAR-based DEM (Figure 5).



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FIGURE 4: VEGETATION COMMUNITIES

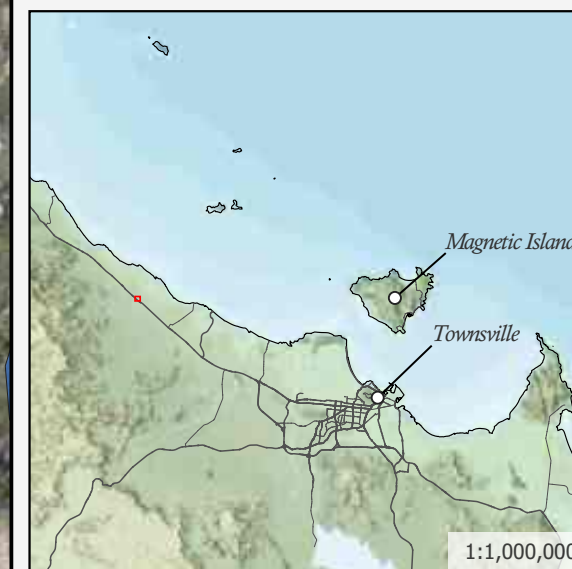


LEGEND:

- Highways and Roads
- Existing Infrastructure
- Infrastructure with 150 m Buffer
- Lot 1 on RP735647

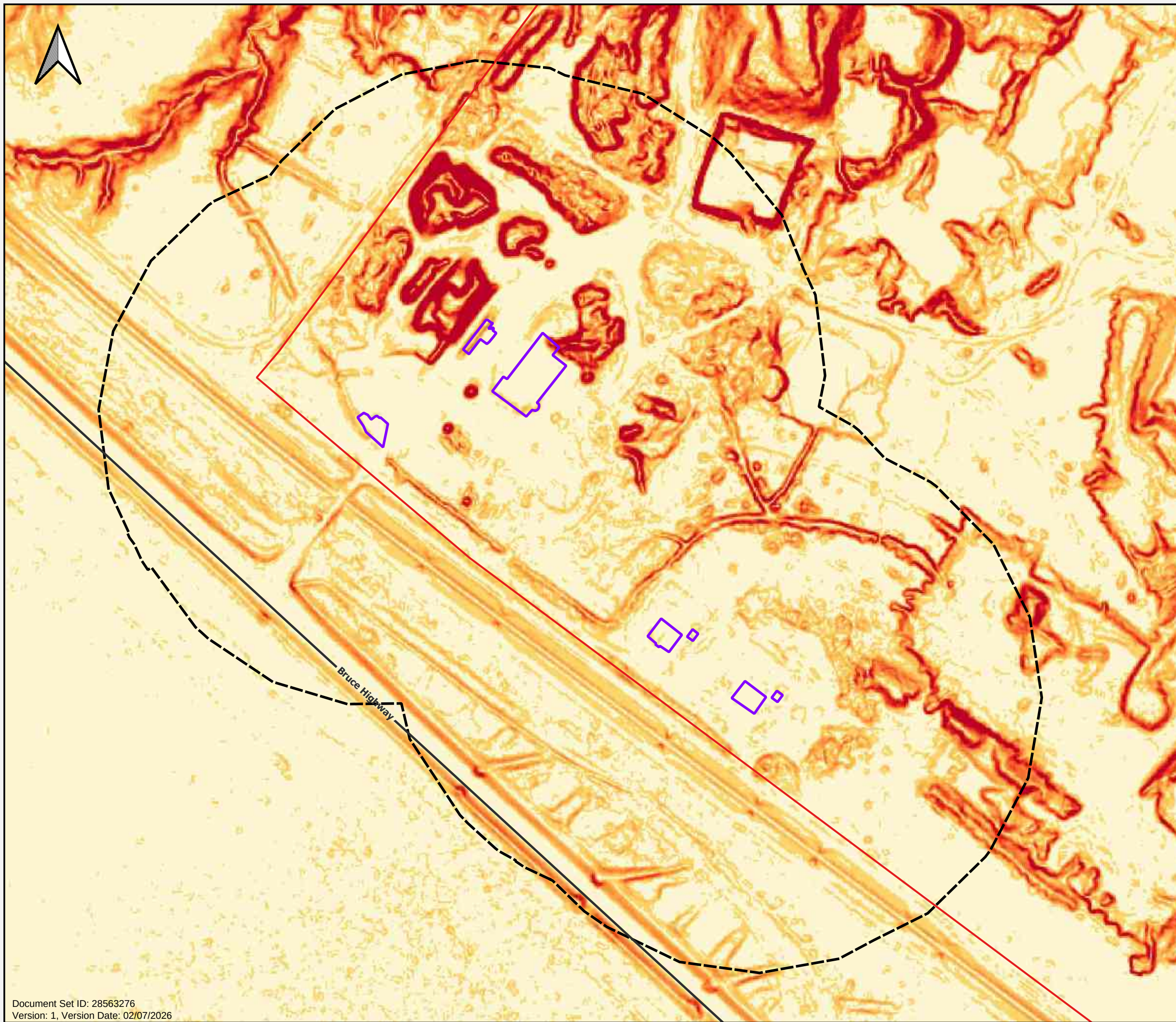
Field Verified Regional Ecosystems

- 7.3.45a
- 7.3.8a
- 7.3.8b



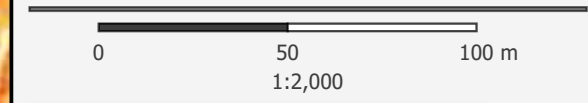
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FIGURE 5: SLOPE ASSESSMENT

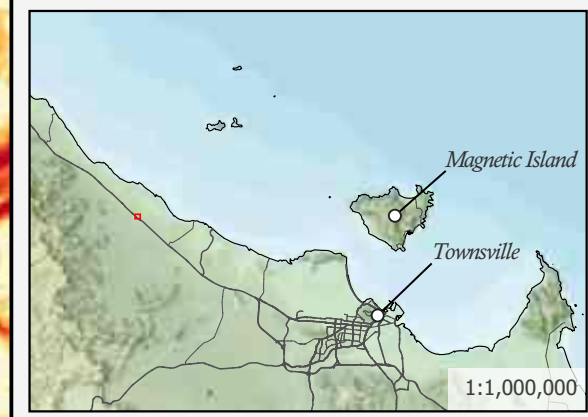


LEGEND:

- Highways and Roads
- Existing Infrastructure
- Infrastructure with 150 m Buffer
- Lot 1 on RP735647

Slope Analysis (Degrees)

- <= 2.5000
- 2.5000 - 5.0000
- 5.0000 - 7.5000
- 7.5000 - 10.0000
- 10.0000 - 12.5000
- 12.5000 - 15.0000
- 15.0000 - 17.5000
- 17.5000 - 20.0000
- 20.0000 - 22.5000
- > 22.5000



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4 Results & Compliance

4.1 Separation & Radiant Heat Exposure

Calculation of separation distance and radiant heat flux (kW/m^2) is required for any new development located within a bushfire prone area or its potential impact buffer particularly where the proposed defendable space differs from the minimum widths recommended in the SPP guidance. Table 2 provides the required separation from the outputs in Appendix A.

An APZ is to be established within the lot, external to all buildings. The APZ width is to be the greater of 10 m or the separation distance derived from the bushfire hazard assessment outputs presented in Table 2. Where the calculated separation distance is less than 10 m, a minimum APZ width of 10 m is adopted as a buffer.

Table 2: Separations & BAL for Each VHC

VHC	Slope (degrees)	Separation required (m)	Resulting BAL
21.2 Melaleuca dry woodlands on sandplains or depositional plains	3 degrees downslope	8	BAL-29
21.2 Melaleuca dry woodlands on sandplains or depositional plains	1 degree upslope	14	BAL-29
9.2 Moist to dry eucalypt open forests on coastal lowlands and ranges	2 degrees downslope	15	BAL-29

4.2 Shielding

Where a structure is shielded from direct radiant heat generated by a bushfire the construction requirements for that structure may be reduced. An elevation is considered not exposed to the source of bushfire attack when all straight lines between that elevation and the fire source are obstructed by another part of the building.

4.3 Short Fire Run & Restricted Fire Head Growth

- Analysis of the size and configuration of classifiable vegetation in and around the site determined that neither Short Fire Run nor Restricted Head Growth conditions apply to this assessment.

4.4 Flame Length

Flame length is the distance from the base of the flame to its tip along the visible flame body. Flame attachment occurs when flames make direct contact with the ground or with unburnt fuels ahead of the fire front which increases heat transfer and accelerates fire spread.

Current research indicates that flame attachment is unlikely on slopes below 15 degrees because flames rise vertically rather than incline upslope under gentle terrain. As slopes within the assessment area are low, generally less than 5 degrees, flame attachment is not considered further in this assessment.

5 Bushfire Management Plan

This section discusses the bushfire protection measures that can be applied to mitigate risk.

5.1 Design and Siting

Future planning and design of landfill infrastructure should incorporate bushfire risk reduction measures at the site scale. These measures are intended to reduce ignition risk, improve firefighting capability, and limit the consequences of fire impacting filled areas or critical infrastructure.

Where practicable, site wide design should incorporate bushfire risk reduction measures that improve firefighting capability and limit the potential for fire to impact filled areas or critical infrastructure. These measures include strategic consideration of water supply, storage of ignitable materials, and protection of key services.

Design considerations include:

- Public roads must meet the geometry, turning radii and vertical clearance standards in the *Fire Hydrant and Vehicle Access Guidelines for residential, commercial and industrial lots* (Queensland Fire and Emergency Services 2015) and the *Road Planning and Design Manual 2nd edition* (Department of Transport and Main Roads 2013).
- Access road design must not impede firefighting access or maintenance activities.
- Development must not increase the severity or extent of bushfire prone areas or increase risk to people or property. This includes avoiding:
 - Creation of additional bushfire prone areas or exacerbation of bushfire impacts through landscape design, revegetation, or rehabilitation.
 - Increased ignition risk from potential sources such as electricity distribution or transmission assets.
- Recycling and storage of combustible or ignitable materials should be located within internal areas of the facility where they can be managed and isolated. Where external storage is required, a minimum 10 m defendable space is to be provided and maintained around storage areas.
- Storage and handling of hazardous or combustible materials should be managed to reduce ignition likelihood and consequences. Measures include:
 - Locating storage and handling areas outside bushfire prone areas where practicable
 - Where this is not practicable locate these areas outside the asset protection zone where practicable and as far from bushfire prone areas as practicable
 - Applying ember protection and radiant heat reduction measures to relevant buildings and enclosures
 - Maintaining vegetation to asset protection zone standards around storage and handling areas
 - Maintaining safe access for emergency services and ensure water supply provision is available
- Holding tanks or ground dams should be located, where practicable, around the perimeter of the facility to support firefighting water supply and access.
- Water sources suitable for firefighting use should be identified, and water sources unsuitable for firefighting use should also be identified to avoid reliance on inappropriate supplies during an incident.
- Essential infrastructure, including electricity, gas, and telecommunications, is to be designed and located to minimise the creation of ignition sources.
- Pipeline infrastructure, and water quality monitoring infrastructure is to be protected through separation, defendable space, or fire breaks, and located to maintain safe access for inspection and emergency response.

5.2 Hazardous Industry

Given the nature of the proposal as a construction and demolition waste landfill, the development is not considered a hazardous industry. Bushfire risk has therefore been assessed with reference to the applicable planning scheme provisions for development within bushfire prone land, with emphasis on vegetation management, ignition source control and operational fire management measures associated with landfill activities and on-site infrastructure.

5.3 Ignition risk

The potential for bushfire ignition is greatest during periods of heightened operational activity, including site preparation, earthworks, waste handling and routine landfill operations. These activities involve frequent use of plant, machinery and vehicles and present a range of potential ignition sources that require active operational control. Key ignition risks and associated management controls are summarised in Table 3.

Potential ignition sources associated with landfill operations include:

- mobile plant, machinery and equipment, including hot exhaust systems and the handling or storage of fuels, oils and flammable substances
- hot works, including welding, grinding, cutting, soldering and brazing
- careless disposal of smoking materials or other wastes capable of ignition
- accumulation of flammable materials, including stockpiles of mulched or chipped vegetation and dry on-site vegetation
- unauthorised open fires for non-operational purposes, and
- approved burning of vegetation or waste material where permitted by the relevant fire authority

All hot works are to be managed through a permit system supported by appropriate risk assessment, fire spotting procedures and the availability of firefighting equipment and extinguishers.

Table 3: Ignition Risk and Management Actions

Ignition Risk	Management Actions
Deliberate ignition or arson	Promote cooperative surveillance and information sharing with fire agencies and the local community. Implement staff awareness and reporting procedures. Limit public access during periods of Severe or Catastrophic fire danger. Cooperate with Police and fire agencies in the investigation of suspected deliberately lit fires.
Campfires	Implement staff and contractor education regarding fire restrictions. Prohibit unauthorised fires on-site. Enforce compliance with Fire Danger Ratings and total fire bans.
Debris Burning	Ensure any off-site debris burning by neighbouring landholders is undertaken only with appropriate permit and approvals from the relevant authority.
Machinery and plant operation	Maintain staff awareness through toolbox talks and operational procedures. Maintain adequate separation between plant activities and combustible fuels. Avoid mechanical works during Extreme or Catastrophic fire danger periods. Avoid driving or parking vehicles in long grass. Remove exposed rocks or metal where practicable prior to slashing to reduce spark generation.
Hot works	Manage all hot works under a permit system. Ensure a fire spotter and appropriate firefighting equipment are present within the work area. Avoid hot works during total fire bans or on days of Very High fire danger or greater.
Electrical faults and lightning	Liaise with electricity providers to ensure routine inspection and maintenance of powerlines. Maintain vegetation clearances around electrical infrastructure. Further information is available from Electrical Safety Queensland.

5.4 Defendable Space and Asset Protection Zone (APZ)

Defendable space, also referred to as an Asset Protection Zone (APZ), is the managed area between buildings or structures and adjacent bushfire hazards. Its purpose is to provide a reduced fuel buffer that lowers bushfire intensity near assets, limits radiant heat, flame contact and ember attack, and supports safe and effective access for emergency services.

A properly designed and maintained defendable space is a critical component of bushfire resilience. It supports the protection of people and assets by interrupting flame paths, reducing radiant heat exposure, providing a lower risk area for ember deposition, and facilitating firefighting and asset protection activities.

5.4.1 Purpose and Performance Requirements

To be effective, a defendable space must:

- Maintain minimal fine fuels at ground level that are unlikely to readily ignite during a bushfire
- Avoid continuous vegetation or fuel structures that could enable fire transfer to buildings or structures
- Provide unobstructed access between the asset and the bushfire hazard for emergency response

5.4.2 Vegetation and Fuel Management Standards

The standards below provide indicative performance measures to achieve reduced fuel conditions within the defendable space:

- grasses are maintained at a height generally not exceeding 50 to 75 mm
- trees may be retained provided they are located at least 5 m from buildings, do not overhang or contact buildings, and are positioned to prevent ignition through direct flame contact or radiant heat exposure
- trees are spaced to avoid the formation of a continuous canopy
- plant species are selected and maintained to minimise the retention of dead material and the accumulation of leaf litter or surface fuels, particularly during periods of elevated bushfire risk
- fuel loads are maintained within a performance range of zero to eight tonnes per hectare
- shrubs may be retained provided their total cover does not exceed approximately 15 to 20 percent of the area and they are spaced to avoid continuous fuel connectivity
- woodpiles, combustible storage areas, wooden sheds, large quantities of mulch, and stacked flammable building materials are excluded from the defendable space

For clarity, within Asset Protection Zones grasses are to be maintained to 50 to 75 mm. Outside APZs, including access verges and operational areas, grasses are to be maintained generally below 10 cm. Grass height standards differ between APZs and broader operational areas to reflect operational constraints.

5.4.3 Legislative Considerations

Clearing and ongoing maintenance within defendable spaces may be subject to the provisions of the *Vegetation Management Act 1999*, depending on zoning and lot boundaries. Relevant exemptions that may apply post approval include:

- an exempt firebreak to infrastructure equal to 1.5 times the canopy height of adjacent vegetation
- a 10 m firebreak on lot boundaries

These exemptions may apply subject to confirmation by the relevant authority and any applicable approval conditions.

5.4.4 Determining Appropriate Setbacks

Defendable spaces must provide sufficient separation between buildings or structures and hazardous vegetation to achieve acceptable radiant heat exposure levels (Queensland Fire and Emergency Services 2019). Adequate separation also reduces the likelihood of fire spread between buildings and improves access for firefighting operations.

In addition to vegetation setbacks, adequate building-to-building separation distances are important to reduce the likelihood of fire spreading between adjacent structures. Appropriate spacing enables improved containment, reduces cumulative heat exposure and provides improved access for firefighting purposes.

The Asset Protection Zone around each building is to be not less than 10 m and is to be the greater of 10 m or the separation distance derived from the hazard assessment outputs in Table 2. The APZ is to be supported by vehicle access around the perimeter where practicable.

5.4.5 Functional Elements of Defendable Space

Defendable spaces may incorporate non vegetated or low fuel elements such as fire trails, footpaths, lawns, discontinuous garden beds, swimming pools, driveways, car parking areas and open space or parkland with consistently managed grasses. Unattached non-combustible Class 10 structures with appropriate separation are also suitable. Typical components of a defendable space are shown in Figure 6.

Areas designated as defendable spaces must be clearly delineated using rural fencing, signage, bollards or other practical measures appropriate to the site (Plate 1). This is necessary to prevent vegetation encroachment and to ensure that landowners and land managers are aware that these areas are to be maintained for bushfire protection purposes. Examples of suitable delineation measures are provided in Plate 2.

Collectively, the establishment and ongoing maintenance of APZs, internal access networks and firefighting water supplies reduce fire intensity, limit the potential for fire spread within and beyond the site, and improve the effectiveness of firefighting and asset protection response during a bushfire event.

Defendable space treatments are to be maintained for the life of the facility and integrated with operational vegetation management, access maintenance and firefighting water supply arrangements described in subsequent sections of this Plan.

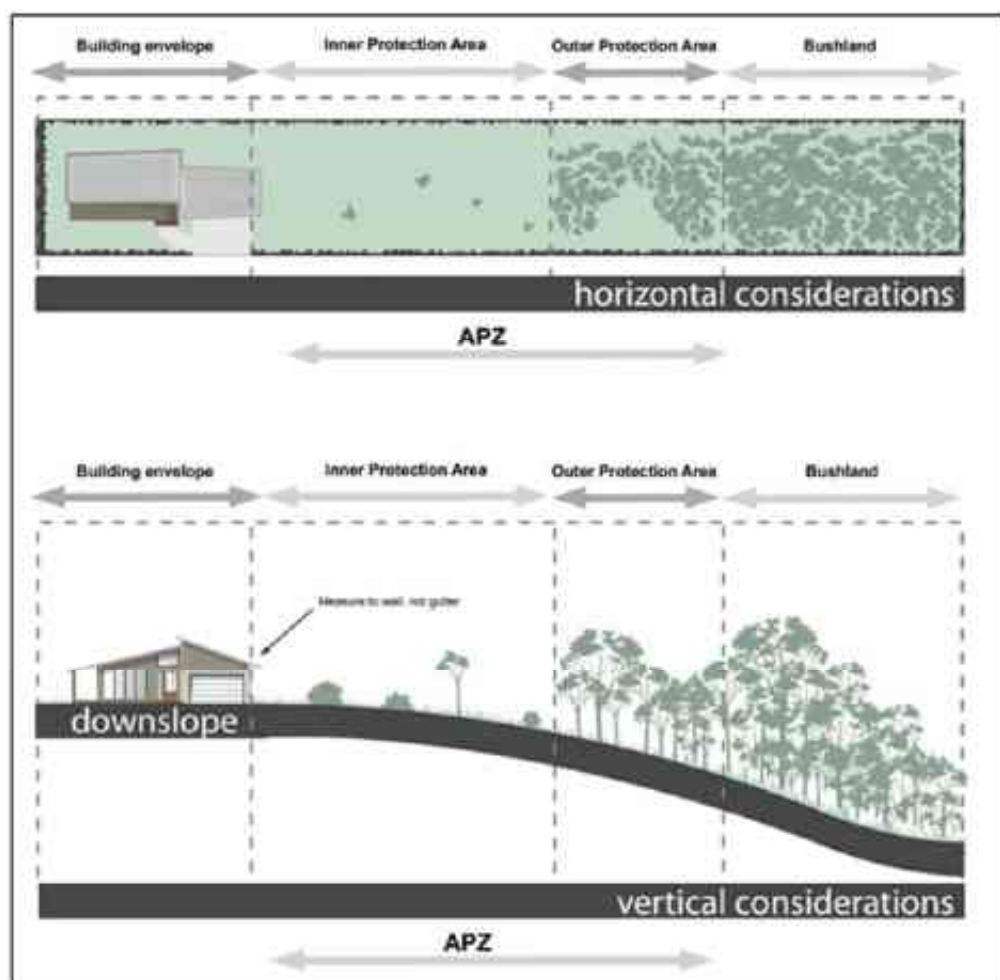


Figure 6: Components of defendable space (Figure A4.1 - NSW PBP 2018)

5.5 Landscape and Vegetation Management

Landscape design and fuel load management are integral to new development and should aim to minimise ignition potential, maintain reduced fuel areas compatible with defensible spaces, and limit bushfire attack mechanisms (direct flame contact, radiant heat, ember ignition and wind effects). Landscaping within and adjacent to defensible spaces must not increase bushfire risk.

5.5.1 Landscape Design Principles

- avoidance of highly flammable shrubs and trees near buildings
- avoidance of flammable mulches, fencing materials and landscape features
- avoidance of trees with canopies that overhang buildings or are located close enough to allow flame contact

- avoidance of climbing plants or vines in contact with external building elements including fascia, pergolas, posts, beams and trellises
- establishment of non-combustible features such as fire trails, access ways or paths constructed from concrete, compacted gravel, clay or stone
- creation of breaks in canopy vegetation through selective clearing or strategic planting to prevent overlapping canopies and reduce the potential for crown fire spread
- use of low flammability ground treatments such as decorative stone or gravel where appropriate
- selection and maintenance of plant species that minimise leaf litter and surface fuel accumulation and reduce ignition potential

5.5.2 Landscape Management and Revegetation

Ongoing landscape management is critical to the long-term effectiveness of bushfire protection measures and should include:

- regular management of vegetation along access verges and other grassed areas through mowing, slashing or grazing to reduce hazardous fuel loads and maintain grass heights below 10 cm
- routine removal of leaf litter, loose bark and woody debris from the ground and from beneath retained or planted trees and shrubs
- management of trees and shrubs to reduce near surface and ladder fuels through canopy lifting, removal of dead limbs and selective understorey clearing

The dimensions and configuration of revegetation or rehabilitation areas must be carefully planned to avoid the creation of future bushfire prone areas. Where revegetation is proposed, a landscape maintenance plan must demonstrate that these areas can be maintained with an aggregate potential fuel load of less than eight tonnes per hectare and maintain a discontinuous fuel structure. Patch and corridor filtering rules, as outlined in *Bushfire Resilient Communities 2019*, should guide the assessment of revegetation layout and bushfire prone area mapping.

5.6 Bushfire Attack Level (BAL) Construction

Australian Standard AS 3959 Construction of buildings in bushfire prone areas establishes six Bushfire Attack Level categories. These are BAL Low, BAL 12.5, BAL 19, BAL 29, BAL 40 and BAL FZ, as shown in Figure 7.

AS 3959 specifies construction requirements primarily for timber framed buildings. Bushfire construction requirements for steel framed buildings are addressed through the *National Association of Steel-Framed Housing National Standard for Steel Framed Construction in Bushfire Areas 2021*.

Bushfire Attack Level BAL ratings describe the severity of bushfire exposure a building is likely to experience and are expressed primarily in terms of radiant heat flux. The BAL assessment forms the construction related component of the overall bushfire assessment process. The complementary planning component addresses broader bushfire risk mitigation measures including APZs, separation distances to achieve defensible space, site access, water supply, essential services, landscaping and emergency management arrangements.

The construction measures specified under AS3959 are not intended to make buildings fire resistant under all conditions. During severe or extreme bushfire events, buildings may still be damaged or destroyed. The intent of the construction requirements is to delay ignition, reduce the likelihood of ember entry, and slow the progression of fire through a structure as the bushfire front passes. The effectiveness of these measures is strongly influenced by the condition and management of vegetation within the APZ. Even where construction standards are met, the dynamic and unpredictable behaviour of bushfire under extreme weather conditions means that development near vegetation carries an inherent level of risk.

Based on the assessed vegetation, slope and separation distances, the applicable Bushfire Attack Level for buildings is BAL-29. Any future alterations or extensions to buildings should be assessed against the applicable bushfire construction standards in force at the time of the works, including reassessment of the relevant BAL where required.

Where steel framed construction is proposed, compliance with AS 3959 is to be read in conjunction with the NASH Standard.

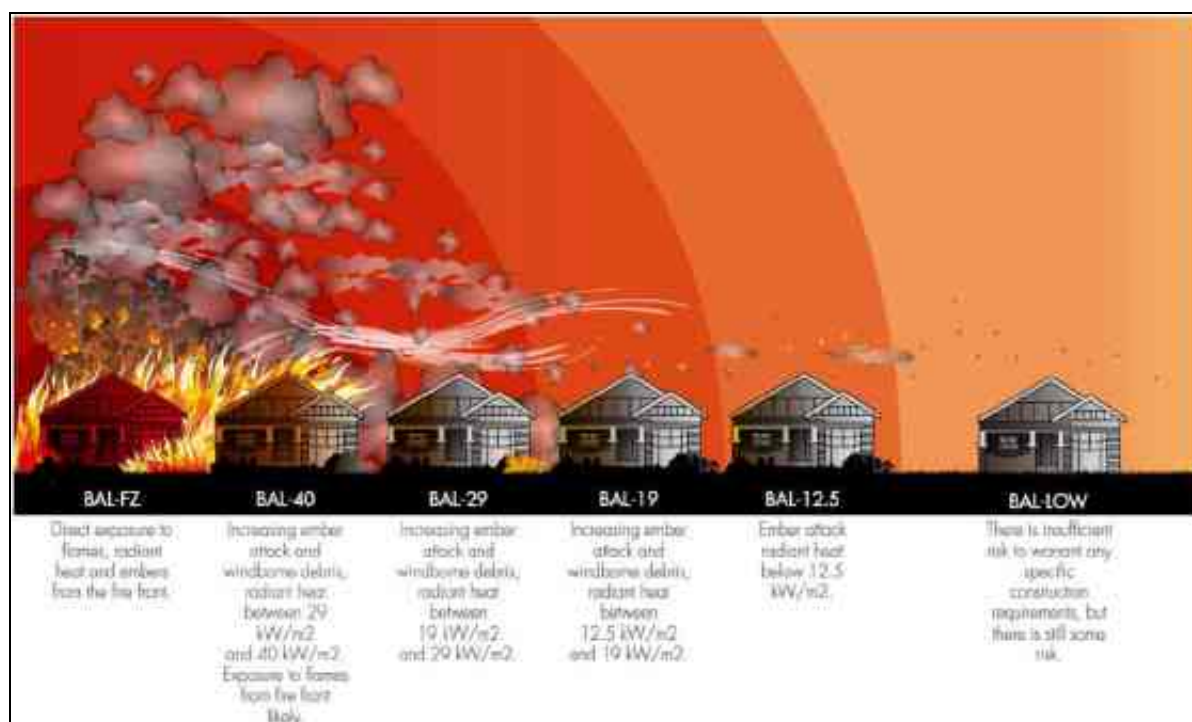


Figure 7: Relationship Between Fire Behaviour & BAL (WA Guidelines for Planning in Bush fire Prone Areas, 2017)

5.6.1 Ember protection measures

Buildings located within bushfire prone land or within the Asset Protection Zone are to incorporate measures to reduce vulnerability to ember attack during a bushfire event.

Ember protection measures are to be consistent with AS 3959 where applicable and include the following requirements:

- external openings excluding roof spaces are to be enclosed or screened
- screening is to be constructed from steel, bronze or aluminium mesh with a maximum aperture of 2 mm
- where weather stripping is used, materials are to have a flammability index not greater than 5 when tested in accordance with AS 1530.2
- openings requiring protection include subfloor areas, openable windows, doors, vents, weepholes and eaves

Buildings used for the storage or handling of hazardous or combustible materials are to be given priority for implementation of ember protection measures due to the increased consequences associated with ignition or fire spread.

These measures are intended to limit ember entry and reduce exposure to radiant heat and operate in conjunction with vegetation management, separation distances and operational controls outlined elsewhere in this Plan.

5.7 Access

In the event of a serious bushfire threat to the facility, adequate ingress and egress must be available within and around the site to support safe evacuation and effective firefighting operations. Well designed and strategically located access arrangements reduce bushfire vulnerability by:

- enabling the safe and efficient evacuation of staff and visitors away from an approaching fire front
- providing emergency services with access to key assets, water supplies and managed areas to support fire suppression and asset protection
- ensuring alternative evacuation routes remain available if primary access routes become compromised during a bushfire
- facilitating the establishment of control lines for hazard reduction or back burning operations

In addition to supporting emergency vehicle ingress and egress, access arrangements at the facility play a role in preventing bushfire entry into filled landfill areas. Once fire penetrates filled waste cells, suppression becomes difficult

and prolonged, with potential consequences for liner integrity, leachate management systems and environmental controls.

Where practicable, perimeter access should allow firefighters to access the bushfire interface and undertake early suppression activities before fire reaches filled areas. To achieve these outcomes, the facility must incorporate:

- safe and reliable access and egress routes to and from the site
- an internal access network, including perimeter a continuous perimeter access trail around the facility to allow firefighters to access the bushfire interface and undertake early suppression activities before fire reaches filled areas.
- driveways, roads and access points designed to accommodate emergency vehicles

The site is served by an all-weather public road connection via a single entry and exit point from the Bruce Highway. Given the single external access point, internal access routes are to be maintained to allow emergency vehicle turning, staging and safe withdrawal within the site. The primary access point must be maintained in an operational condition at all times to ensure ongoing safety and emergency preparedness.

In accordance with the acceptable outcomes of the Townsville City Plan Bushfire Overlay, all internal access trails are required to comply with the following design standards:

- a minimum cleared width of 6 m and a minimum formed width of 4 m
- a minimum vertical clearance of 4.8 m
- a cross-fall not exceeding 10 degrees
- a maximum gradient of 12.5 percent, with appropriate drainage measures to prevent erosion and minimise ongoing maintenance requirements
- access trails are through roads and do not terminate in dead ends

5.8 Water Supply

The intent of water supply measures is to ensure adequate and reliable water availability for the protection of structures during and after the passage of a bushfire.

Where a reticulated water supply is available, but a compliant fire hydrant is not present, the reticulated system is to be extended or upgraded to provide a fire hydrant within 70 m of the furthest elevation of all buildings. The road network and fire hydrants are to be designed and installed in accordance with

1. *Fire Hydrant and Vehicle Access Guidelines for Residential, Commercial and Industrial Lots* (QFES 2015), unless otherwise specified by the relevant water entity, and
2. *Road Planning and Design Manual 2nd edition* (DTMR 2013).

Where a reticulated water supply is not available, a static water supply for firefighting purposes is to be provided. Static water tanks must be above ground, accessible, clearly marked, and constructed from concrete or metal. Where elevated, tank stands are to be constructed from non-combustible materials.

Static water supplies are to be located on the non-hazard side of buildings where practicable and fitted with a firefighting outlet and ball valve located within the defendable space. Where this is not feasible, appropriate shielding must be provided to protect both the tank and firefighters accessing the water supply. All exposed pipes, valves, taps and fittings are to be metal, and the supply line from the tank to the ball valve is to maintain a consistent bore size.

Where static water supplies are provided, appropriate signage must be installed in a location that is clearly visible to approaching emergency services under smoky conditions. Figure 8 provides an example of suitable signage. The location of all static water supplies is to be clearly identified on a site map within the Emergency Information Container at each entrance to the facility.

Where practicable, holding tanks (ground dams) should be located around the perimeter of the facility to support firefighting operations. Treated stormwater may be stored and utilised as a firefighting water supply. Other non-treated landfill-influenced water, such as leachate, must be clearly identified and signposted to ensure it is not used for firefighting purposes.

Fire-fighting equipment should be installed at the site, including at all flammable waste storage areas. All firefighting equipment must be clearly signposted and maintained in a location that is always unobstructed and accessible. Fire-

fighting equipment is to be maintained in accordance with a regular inspection and testing schedule, including, as a minimum, weekly visual inspections for damage or defects and three-monthly functional testing to confirm operability.

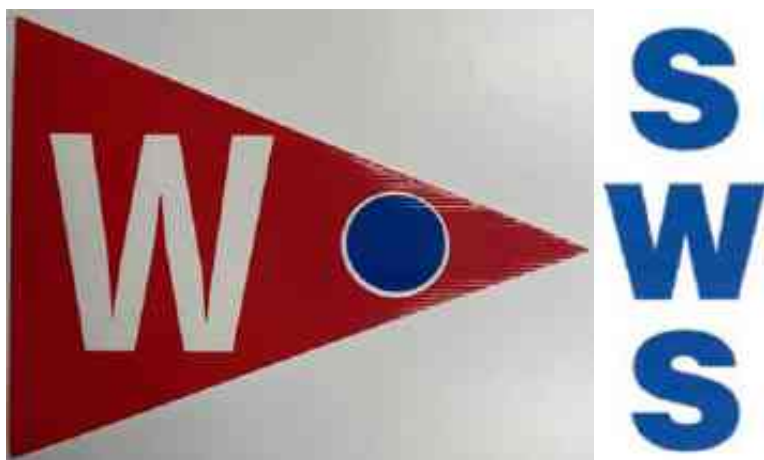


Figure 8 Indication of Static Water Supply Signage

5.9 Electricity, Gas Supplies & Hazardous Materials

The intent of electricity, gas and hazardous material controls is to ensure that utilities and materials are located, designed and managed so they do not increase the likelihood of ignition or contribute to fire spread affecting buildings or site operations during a bushfire event.

5.9.1 Electricity

Electrical infrastructure must be designed and located to minimise the potential for ignition of surrounding vegetation or building materials.

Where practicable, electrical transmission and distribution lines are to be installed underground. Where overhead powerlines are required, they are to be designed and installed to reduce bushfire ignition risk, including:

- use of short pole spacing, generally not exceeding 30 m, except where longer spans are required to cross gullies, gorges or riparian corridors
- maintenance of appropriate clearance distances between powerlines and surrounding vegetation, such that no part of a tree encroaches within the minimum separation distances specified by the relevant electricity authority

Electrical infrastructure is to be routinely inspected and maintained to prevent contact with vegetation and to reduce the risk of ignition under high wind conditions.

5.9.2 Gas

Reticulated and bottled gas installations must be installed, operated and maintained in accordance with the requirements of the relevant authorities and AS/NZS 1596:2014 including any applicable separation distance requirements.

Fixed gas cylinders must be located clear of flammable materials within a minimum separation distance of 10 m and shielded on the hazard side where practicable. All above ground pipes and connections to and from gas cylinders are to be metal. Polymer sheathed flexible gas supply lines adjacent to buildings are not permitted.

Where gas cylinders are required to be located close to buildings, pressure relief and safety valves must be directed away from the building and positioned at least 2 m from combustible materials to reduce the potential for flame impingement or radiant heat exposure.

Gas infrastructure must be located so as not to obstruct firefighter access to water supplies, access routes or operational areas during fire suppression activities.

5.9.3 Combustible Materials and Fuels

For the purposes of bushfire risk management, combustible materials and fuels include fine fuels and stored combustibles that may contribute to ignition, intensity or spread. This includes leaf litter, grass, mulch and woodpiles, solid combustibles, and flammable liquids or gases including petrol, diesel, kerosene, LPG, natural gas and acetylene. Vehicles, machinery and equipment that store or use fuels are also potential ignition sources.

Combustible materials and fuels must be stored and managed to minimise ignition risk and limit exposure to bushfire attack. Stockpiles of combustible materials for recycling or composting are to be divided into smaller piles or windrows to limit fire spread and enable isolation. Flammable solid wastes must not be stockpiled above the quantity limits imposed under the Environmental Authority.

Recyclable and ignitable materials should be stored within internal areas of the facility where they can be managed and isolated. Where external storage is required, a minimum 10 m defensible space is to be established and maintained around stockpiles.

Fuels and flammable solvents for operational use are to be stored in ventilated and secure facilities located on unfilled land where practicable. Flammable liquids are to be stored within bunded areas with a minimum capacity of 110 percent of the stored volume to prevent the release of raw or burning fuel into filled waste, stormwater infrastructure, or drainage systems.

Storage areas for flammable liquids and gases should be located away from the dominant bushfire threat direction where practicable. Where stored within buildings or structures, these are to be located a minimum of 6 m from other buildings.

Vegetation surrounding combustible material storage areas must be managed to defensible space standards. Buildings used for storing flammable liquids or gases must incorporate ember and radiant heat protection measures consistent with the applicable Bushfire Attack Level and construction provisions of this Plan.

Signage is to be provided at site entrances stating that flammable liquids are not permitted on the premises, and emergency contact information is to be displayed in a location readily visible to site users and emergency services.

5.10 Operational Requirements

This section outlines the operational measures implemented throughout the ongoing operation of the construction and demolition waste landfill to manage bushfire risk. These measures address ignition prevention, preparedness during elevated fire danger periods, and response actions in the event of a bushfire threat, and form part of the day-to-day operational management of the facility.

5.10.1 Site Preparation and Ground Disturbance Activities

While the facility is operational, periodic ground disturbance activities may occur, including cell preparation, earthworks, road maintenance, trenching, and infrastructure upgrades. During these activities, potential ignition sources may include hot works, improper disposal of smoking materials, hot exhaust systems from plant and vehicles, electrical faults, and sparks generated from metal contact.

Where ground disturbance or construction type activities are undertaken, a site-specific fire management approach must be implemented. This should include identification and control of ignition sources and proactive vegetation management, such as slashing or mowing grasses in and around work areas, access tracks, stockpile areas and parking areas. These measures are particularly important during periods of elevated bushfire risk, when fire spread potential is increased due to prevailing weather conditions.

Mobile plant and vehicles operating during these activities are to be fitted with appropriate fire suppression equipment, and portable fire extinguishers are to be readily available on-site to allow for rapid response to small fires. An adequate water supply must also be available to support initial firefighting response and to assist responding fire services where required.

5.10.2 Ongoing Operations and Maintenance

Bushfire risk management forms part of routine landfill operations and is addressed through ongoing operational procedures and maintenance activities.

Routine inspections of bushfire-related infrastructure, access arrangements and fuel conditions are to be undertaken at least annually, and preferably prior to the commencement of the bushfire season. Inspections should focus on:

- surface and near surface fuel accumulation, including grasses, litter and debris, within asset protection zones and operational areas
- vegetation structure and canopy separation within and adjacent to asset protection zones
- condition and maintenance of access routes, fire trails and firefighting water supply infrastructure
- housekeeping practices within operational and built areas to minimise the accumulation of combustible materials
- availability, signage and accessibility of firefighting equipment across the site

Asset protection zones are to be inspected at least twice per year and after significant vegetation growth periods or major weather events. Maintenance is to be undertaken as required to maintain the standards in Section 5.4.

Firefighting equipment is to be always maintained in an operational condition. This includes, as a minimum, weekly visual inspections for damage or obstruction and three-monthly operational testing in accordance with manufacturer requirements and site procedures.

Stockpiles of combustible materials intended for recycling or composting are to be managed in accordance with Section 5.9.3, including division into smaller piles or windrows to limit fire spread and allow isolation of burning material.

Personnel involved in landfill operations are to receive training relevant to fire prevention, ignition control and the use of firefighting equipment appropriate to their role.

Findings from inspections should inform maintenance actions and operational controls implemented throughout the fire season.

5.10.3 Operational Bushfire Preparedness and Response

Operational bushfire preparedness and response measures are implemented at the facility to manage bushfire risk during periods of elevated fire danger and to guide immediate site actions in the event of a bushfire threat or ignition. These measures form part of routine operational management and are undertaken under the control of site management to minimise ignition risk, limit escalation, and prioritise the safety of staff, contractors and emergency responders.

Operational response and preparedness measures are scaled according to prevailing fire weather conditions and are managed in accordance with declared Fire Danger Ratings and Total Fire Bans to reduce ignition risk and ensure readiness for bushfire response.

5.10.3.1 Fire Danger Rating Based Controls

The Australian Fire Danger Rating System is used at the facility as an operational decision-making tool to inform activity restrictions, preparedness measures and response actions during the bushfire season.

Operational activities are adjusted in response to declared Fire Danger Ratings and Total Fire Bans, with controls focused on reducing ignition potential, increasing situational awareness and maintaining readiness. This includes modification or restriction of higher risk activities, increased monitoring, and confirmation that firefighting equipment, access routes and water supplies are accessible and operational.

Operational controls are based on the Australian Fire Danger Rating System categories. For operational purposes the facility also uses Low to Moderate as an internal category for routine conditions. Activities and controls applicable under different Fire Danger Ratings are outlined in Table 4.

Table 4: Activities and Fire Danger Ratings

ELEMENT	LOW-MODERATE	MODERATE	HIGH	EXTREME	CATASTROPHIC
Preparedness for ignition.	Routine monitoring of Fire Danger Ratings and weather conditions	As per low	Increased preparedness and staff awareness	Heightened preparedness and pre-emptive controls	Maximum preparedness and early operational withdrawal
Response to ignition.	Standard operational response	Plan and commence preparation for a wildfire.	Increased monitoring and readiness	Immediate response and withdrawal from high risk areas	Immediate withdrawal from bushfire risk areas

ELEMENT	LOW-MODERATE	MODERATE	HIGH	EXTREME	CATASTROPHIC
Firefighting equipment	Available and maintained	Check fire equipment.	Fire suppression equipment tested, water ready and ready to act.	Fire suppression equipment tested, water ready and fully deployed.	Fire suppression equipment tested, water ready and fully deployed only where safe to do so.
Hot works	Permitted under standard controls.	Permitted with controls. Requires a spotter and a fire extinguisher. Hot works permits are to include post-activity fire watch periods where required.	Restricted subject to approval. Requires a spotter and a fire extinguisher. Hot works permits are to include post-activity fire watch periods where required.	Prohibited	Prohibited
Vegetation maintenance	Permitted	Permitted	Restricted subject to approval. Requires a spotter and a fire extinguisher / fire vehicle.	Prohibited	Prohibited

5.10.3.2 Preparedness Measures

During the bushfire season, and particularly on days of High Fire Danger or above, the following preparedness measures are implemented as part of routine site operations:

- monitoring of daily Fire Danger Ratings and relevant weather forecasts
- confirmation that APZs, access routes and fire trails are maintained in an operational condition
- verification that firefighting water supplies and equipment are accessible and serviceable
- reinforcement of staff awareness regarding bushfire risk, ignition sources and response procedures

Preparedness activities are prioritised ahead of forecast severe weather conditions and during extended dry periods.

5.10.3.3 Operational Response to Bushfire Threat or Ignition

In the event of a bushfire threat or ignition within or adjacent to the facility, operational response actions are implemented immediately and in proportion to the level of risk. These actions are intended to reduce escalation while maintaining staff safety and supporting emergency response.

Operational response actions may include:

- cessation of high-risk activities in accordance with applicable Fire Danger Rating controls
- notification of emergency services where required
- initial suppression of small fires where safe to do so using available firefighting equipment
- management of site access to support emergency vehicle movement and maintain safe working conditions
- implementation of site-specific operational withdrawal or staged evacuation procedures where required

The safety of staff, contractors and emergency responders is the primary consideration at all times.

5.10.3.4 Operational Withdrawal and Site Safety

Where a bushfire poses a direct threat to the facility and it is safe to do so, staff and site users may be withdrawn or evacuated in accordance with site operational procedures.

Decisions regarding operational withdrawal or evacuation should consider:

- the location, behaviour and proximity of the fire

- prevailing and forecast weather conditions
- the availability and safety of access and egress routes
- advice received from emergency services

Where immediate evacuation is not practicable, staff are to relocate to lower-risk areas within the site while awaiting further instruction from emergency services.

5.10.3.5 Post Incident Review

Following any bushfire incident or significant fire-related event, a review of operational response and management measures is to be undertaken to support continuous improvement.

The review is intended to:

- identify any deficiencies in preparedness or operational response
- confirm the effectiveness of mitigation and control measures
- inform updates to operational procedures and this Bushfire Management Plan

Outcomes of post-incident reviews are to be incorporated into ongoing site management practices to improve bushfire resilience over time.

6 Recommended Emergency Preparedness

This section outlines recommended measures to strengthen emergency preparedness and bushfire response capability at the facility. These measures complement the operational requirements set out in Section 5.10 and are intended to support site readiness, staff awareness and continuous improvement. Implementation should be scalable and proportionate to the facility's risk profile, operational constraints and available resources, and does not replace the operational requirements of this Plan.

6.1 Preparedness Planning

It is recommended that the operator maintain a documented set of emergency response procedures for bushfire, integrated with existing site management systems. This may include:

- clear decision triggers for activity cessation and operational withdrawal during elevated Fire Danger Ratings
- nominated site roles responsible for initiating operational response actions and liaising with emergency services
- a site plan showing access routes, gates, water supply points, static water tanks, and key infrastructure
- a schedule for pre-season readiness checks of access, water supply and firefighting equipment

6.2 Training and Exercises

It is recommended that all personnel responsible for site operations receive periodic briefings on bushfire risk and response procedures. This may include:

- pre-season toolbox talks addressing ignition sources, activity restrictions, fire prevention and response actions
- refresher training in the use of firefighting equipment and fire-fighting techniques where relevant
- periodic scenario exercises to test communications, access control and operational withdrawal procedures

6.3 Fire Danger Rating Awareness

It is recommended that personnel responsible for daily operations monitor the Fire Danger Rating and Total Fire Ban status during the bushfire season. When conditions are Extreme or Catastrophic, heightened operational controls should be implemented consistent with the activity restrictions and ignition controls outlined in Section 5.10.

6.4 Australian Fire Danger Rating System

The Australian Fire Danger Rating System provides nationally consistent fire danger information used by emergency services, industry and land managers. At the facility, Fire Danger Ratings are used to inform operational controls, preparedness measures and response actions as outlined in Section 5.

For operational purposes the facility applies the AFDRS categories and includes Low as an additional internal category for routine conditions.

Elevated ratings, particularly Extreme and Catastrophic, indicate increased ignition potential and reduced suppression capability and may require early modification or cessation of activities, or operational withdrawal, in accordance with site procedures and emergency service advice.

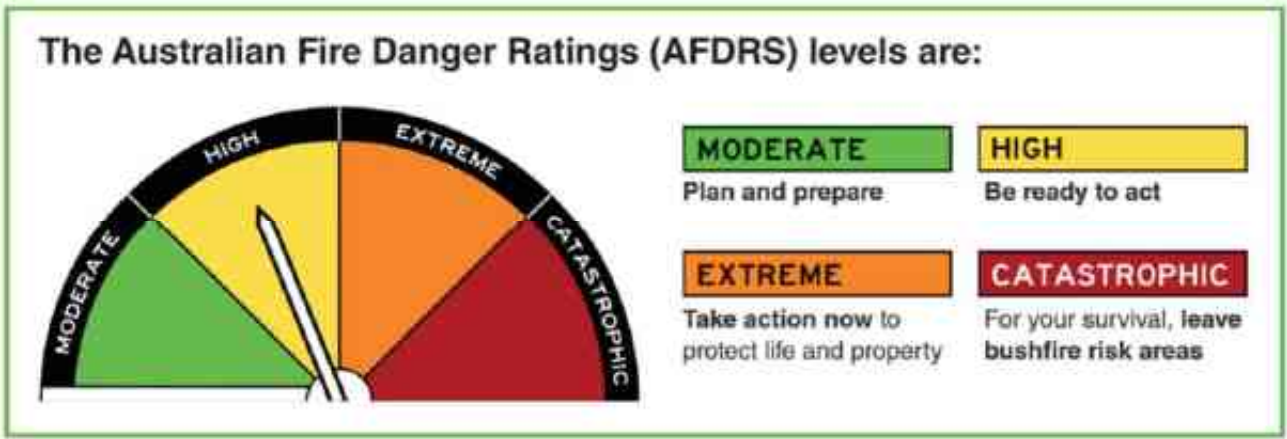


Figure 9: Australian Fire Danger Rating System

- MODERATE:** *Plan and Prepare* - Have a plan and be ready to act if a fire starts.
- HIGH:** *Prepare to act* - Be alert for fires in your area and be ready to leave or be ready to defend.
- EXTREME:** *Take action now to protect your life and property* - Act before a fire starts.
- CATASTROPHIC:** *For your survival, leave bush fire risk areas* - Protect your life, leave early.

7 Conclusion & Recommendations

This assessment has been based on the bushfire hazards in and around the site at the time of production (December 2025). It is clear from this investigation and assessment that the site constitutes Bushfire Prone Land.

A BHA in accordance with the SPP guidance has been compiled to inform the development of the Bushfire Management Plan (Section 3) that is in accordance with the Townsville City Plan and SPP.

In summary, the following key recommendations have been generated and applied within the Bushfire Management Plan to comply with relevant bushfire planning guidelines.

Table 5: Summary of Findings

Summary	
Design & Siting	There is no overnight occupied building accommodation proposed. The development is located and designed to ensure adequate separation distances are provided and that vehicle access to water supplies and buildings can be achieved at all times to manage bushfire risk to acceptable levels. Any new development is to be positioned in areas of comparatively lower bushfire risk and afforded the same level of bushfire protection as existing infrastructure.
Separation	An APZ is to be established and maintained around all buildings. The width of the Asset Protection Zone is to be the greater of 10 m or the separation distance derived from Table 2. Yard storage is not permitted within 10 m of any building. APZs are to be inspected at least twice per year and after periods of significant vegetation growth or major weather events. Maintenance is to be undertaken as required to maintain compliance with the standards outlined in Section 5.4.
Construction	Buildings are to be designed and constructed to reduce vulnerability to bushfire attack, including exposure to ember attack and radiant heat, consistent with the siting, separation and construction requirements outlined in this Bushfire Management Plan. Buildings used for the storage or handling of hazardous or combustible materials are to be prioritised for ember protection measures due to the increased consequences associated with ignition. Detailed construction and ember protection requirements are provided in Sections 5.6 and 5.9.
Access	The site is served by a single all-weather public road connection to the Bruce Highway. This access point is to be maintained in an operational condition at all times to support emergency vehicle access and safe site evacuation. Internal access roads are to provide circulation within the site in accordance with the Townsville City Plan bushfire overlay requirements. The Townsville City Plan - Bushfire Overlay, requires that all perimeter and internal trail systems meet the following standards: • A minimum cleared width of 6 m and a minimum formed width of 4 m. • A minimum of 4.8 m vertical clearance. • A cross-fall of no greater than 10 degrees, and • A maximum gradient of 12.5%, with adequate drainage to prevent soil erosion and minimise ongoing trail maintenance, and • All access trails are through roads (no dead ends). Access to all buildings and firefighting water supply infrastructure is to be provided in accordance with the Fire Hydrant and Vehicle Access Guidelines for residential, commercial and industrial lots Queensland Fire and Emergency Services (2015) to ensure Category 1 fire appliance access where required. Access trails are to be monitored annually and maintained as required.
Water	Reticulated water supply is to be positioned to provide unobstructed access for fire services. The associated road network and fire hydrants are to be designed and installed in accordance with:

Summary	
	• Fire Hydrant and Vehicle Access Guidelines for residential, commercial and industrial lots Queensland Fire and Emergency Services 2015 unless otherwise specified by the relevant water entity • The Road Planning and Design Manual 2nd edition Department of Transport and Main Roads 2013. A review of water access points is to be undertaken and rationalised where required. If reticulated water is not available within 70 m of a building, provide static water supply equipped with suitable firefighting fittings.
Landscaping & Vegetation Management	The dimensions and configuration of revegetation or rehabilitation areas are not to create an additional bushfire prone area over time. A maintenance plan is to ensure revegetation and rehabilitation areas are designed and managed to maintain an aggregate potential fuel load of less than 8 tonnes per hectare and a discontinuous fuel structure. Within Asset Protection Zones shrubs are to be maintained with discontinuous cover and grasses are to be maintained to 50 to 75 mm in height, consistent with Section 5.4.
Bushfire Emergency Management and Operations Plan	A Bushfire Emergency Management and Operations Plan is recommended to support site operations within bushfire prone land, particularly given the nature of on-site activities, limited external access and the need for clear operational procedures to manage staff safety and emergency response during elevated fire danger conditions.

8 References

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Appendix A

SPP Bush Fire Modelled Separation Outputs

SPP Bushfire Asset Protection Zone Width Calculator			
VARIABLE DESCRIPTION	VARIABLE	UNITS	VALUE
Input Values			
FIRE WEATHER SEVERITY	FDI		51.00
VEGETATION HAZARD CLASS	VHC	-	21.2 Melaleuca dry woodlands on sandplains or depositional plains
REMNANT STATUS	-	-	Remnant
SLOPE TYPE (UPSLOPE OR DOWNSLOPE)	ST	-	Downslope
EFFECTIVE SLOPE UNDER THE HAZARDOUS VEGETATION	eSlope	degrees	3.00
SLOPE BETWEEN SITE AND HAZARDOUS VEGETATION	θ	degrees	1.00
DISTANCE OF THE SITE FROM HAZARDOUS VEGETATION	d	m	8.00
Output Values			
SURFACE FUEL LOAD	-	t/ha	3.70
NEAR SURFACE FUEL LOAD	-	t/ha	3.40
BARK FUEL LOAD	-	t/ha	0.60
ELEVATED FUEL LOAD	-	t/ha	1.00
TOTAL OVERALL FUEL LOAD	W	t/ha	8.70
TOTAL SURFACE FUEL LOAD	w	t/ha	7.10
POTENTIAL FIRE LINE INTENSITY	I	kW/m	2402
RADIANT HEAT FLUX	q	kW/m ²	27.59
BUSHFIRE ATTACK LEVEL (AS 3959-2018)	BAL	-	BAL 29
DISCLAIMER: Fire-line intensity and radiant heat calculations where effective slope exceeds 20 degrees (downslope) or 15 degrees (upslope) may be unreliable. In these locations, specialist assessment is warranted.			

SPP Bushfire Asset Protection Zone Width Calculator			
VARIABLE DESCRIPTION	VARIABLE	UNITS	VALUE
Input Values			
FIRE WEATHER SEVERITY	FDI		51.00
VEGETATION HAZARD CLASS	VHC	-	9.2 Moist to dry eucalypt woodland on coastal lowlands and ranges
REMNANT STATUS	-	-	Remnant
SLOPE TYPE (UPSLOPE OR DOWNSLOPE)	ST	-	Downslope
EFFECTIVE SLOPE UNDER THE HAZARDOUS VEGETATION	eSlope	degrees	2.00
SLOPE BETWEEN SITE AND HAZARDOUS VEGETATION	θ	degrees	4.00
DISTANCE OF THE SITE FROM HAZARDOUS VEGETATION	d	m	15.00
Output Values			
SURFACE FUEL LOAD	-	t/ha	11.40
NEAR SURFACE FUEL LOAD	-	t/ha	3.50
BARK FUEL LOAD	-	t/ha	1.30
ELEVATED FUEL LOAD	-	t/ha	1.00
TOTAL OVERALL FUEL LOAD	W	t/ha	17.20
TOTAL SURFACE FUEL LOAD	w	t/ha	14.90
POTENTIAL FIRE LINE INTENSITY	I	kW/m	9303
RADIANT HEAT FLUX	q	kW/m ²	27.57
BUSHFIRE ATTACK LEVEL (AS 3959-2018)	BAL	-	BAL 29
DISCLAIMER: Fire-line intensity and radiant heat calculations where effective slope exceeds 20 degrees (downslope) or 15 degrees (upslope) may be unreliable. In these locations, specialist assessment is warranted.			

SPP Bushfire Asset Protection Zone Width Calculator			
VARIABLE DESCRIPTION	VARIABLE	UNITS	VALUE
Input Values			
FIRE WEATHER SEVERITY	FDI		51.00
VEGETATION HAZARD CLASS	VHC	-	9.2 Moist to dry eucalypt woodland on coastal lowlands and ranges
REMNANT STATUS	-	-	Remnant
SLOPE TYPE (UPSLOPE OR DOWNSLOPE)	ST	-	Upslope
EFFECTIVE SLOPE UNDER THE HAZARDOUS VEGETATION	eSlope	degrees	1.00
SLOPE BETWEEN SITE AND HAZARDOUS VEGETATION	θ	degrees	1.00
DISTANCE OF THE SITE FROM HAZARDOUS VEGETATION	d	m	14.00
Output Values			
SURFACE FUEL LOAD	-	t/ha	11.40
NEAR SURFACE FUEL LOAD	-	t/ha	3.50
BARK FUEL LOAD	-	t/ha	1.30
ELEVATED FUEL LOAD	-	t/ha	1.00
TOTAL OVERALL FUEL LOAD	W	t/ha	17.20
TOTAL SURFACE FUEL LOAD	w	t/ha	14.90
POTENTIAL FIRE LINE INTENSITY	I	kW/m	8104
RADIANT HEAT FLUX	q	kW/m ²	27.12
BUSHFIRE ATTACK LEVEL (AS 3959-2018)	BAL	-	BAL 29
DISCLAIMER: Fire-line intensity and radiant heat calculations where effective slope exceeds 20 degrees (downslope) or 15 degrees (upslope) may be unreliable. In these locations, specialist assessment is warranted.			