



Texas Commission on Environmental Quality
Correspondence Cover Sheet
Waste Permits Division

Date: 3/11/2026
 Facility Name: Calaveras Plant Site
 Permit, Registration, or
 Authorization No.: CCR102

Nature of Submittal:
 Initial
 Deficiency Response to TCEQ Tracking No.: _____
 (from subject line of TCEQ Notice of Deficiency)

Affix a completed Correspondence Cover Sheet to the front of each submission to the Waste Permits Division. Check **one box** to indicate type of correspondence. Call (512) 239-2335 if you have questions.

Table 1 - Municipal Solid Waste Correspondence

Applications	Reports and Communications
Permit (New): <input type="checkbox"/> Landfill <input type="checkbox"/> Processor <input type="checkbox"/> Compost	<input type="checkbox"/> Alternative Daily Cover Status Report
<input type="checkbox"/> Registration Application (New)	<input type="checkbox"/> Closure Report
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Compost Report
<input type="checkbox"/> Limited Scope Major Amendment	<input type="checkbox"/> Groundwater Alternate Source Demonstration
<input type="checkbox"/> Modification with Public Notice	<input type="checkbox"/> Groundwater Corrective Action Report
<input type="checkbox"/> Modification without Public Notice	<input type="checkbox"/> Groundwater Monitoring Report
<input type="checkbox"/> Ownership Transfer/Name Change Modification	<input type="checkbox"/> Groundwater Background Evaluation Report
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Landfill Gas Corrective Action Report
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Landfill Gas Monitoring Report
Subchapter T: <input type="checkbox"/> Permit <input type="checkbox"/> Registration	<input type="checkbox"/> Liner Evaluation Report
<input type="checkbox"/> Subchapter T Disturbance Non-Enclosed Structure	<input type="checkbox"/> Soil Boring Plan
Notice of Intent: <input type="checkbox"/> New <input type="checkbox"/> Revision <input type="checkbox"/> Closure	<input type="checkbox"/> Special Waste Request
<input type="checkbox"/> Other Application:	<input type="checkbox"/> Other Report or Communication:

Table 2 - Industrial & Hazardous Waste Correspondence

Applications	Reports and Notifications	
<input type="checkbox"/> CCR Registration (New)	<input type="checkbox"/> Extension Request	<input type="checkbox"/> Interim Status Change
<input type="checkbox"/> Permit Application (New)	<input type="checkbox"/> CfPT Plan/Result	<input type="checkbox"/> Interim Status Closure Plan
<input type="checkbox"/> Permit Renewal	<input type="checkbox"/> CPT Plan/Result	<input type="checkbox"/> Closure Certification/Report
<input type="checkbox"/> Post-Closure Order (New)	<input type="checkbox"/> Construction Certification/Report	CCR Notifications:
<input type="checkbox"/> Major Amendment	<input type="checkbox"/> Corrective Action Effectiveness Report	<input type="checkbox"/> CCR Closure Care Plan
<input type="checkbox"/> Minor Amendment	<input type="checkbox"/> Groundwater Alternative Source Demonstration Report	<input type="checkbox"/> CCR Design Criteria
Class of Permit Modification: <input type="checkbox"/> 1 <input type="checkbox"/> 1ED <input type="checkbox"/> 2 <input type="checkbox"/> 3	<input type="checkbox"/> Groundwater Background Evaluation Report	<input type="checkbox"/> CCR Groundwater Monitoring and Corrective Action Report
<input type="checkbox"/> Endorsement	<input type="checkbox"/> Groundwater Monitoring Report	<input type="checkbox"/> CCR Location Restriction
<input type="checkbox"/> Temporary Authorization	<input type="checkbox"/> Soil Core Monitoring Report	<input type="checkbox"/> CCR Operating Criteria
<input type="checkbox"/> Voluntary Revocation	<input type="checkbox"/> Treatability Study	<input type="checkbox"/> CCR Post-closure Care Plan
<input type="checkbox"/> 335.6 Notification	<input type="checkbox"/> Trial Burn Plan/Result	<input checked="" type="checkbox"/> Other Report or Notification
<input type="checkbox"/> Other:	<input type="checkbox"/> Unsaturated Zone Monitoring Report	(specify): Fly Ash LF Closure Plan Design Supplements



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CPS Energy
Michael M. Malone
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San Antonio, Texas 78215

DATE
16 February 2026

SUBJECT
Calaveras Plant Site (CCR102) – Fly Ash Landfill
(FAL) Closure Plan Design Supplements

REFERENCE
ERM Project No. 0798002

Dear Mr. Malone:

Environmental Resources Management Southwest, Inc. (ERM) is pleased to provide this Supplement for the Fly Ash Landfill (FAL) Closure Plan requested by the Texas Commission on Environmental Quality (TCEQ) Notice of Deficiency (NOD) item number 48 provided in an email on 17 July 2025. NOD 48 requested the following information be included in the Registration Application for Coal Combustion Residuals (CCR) Landfills and Surface Impoundments required under Title 30 of the Texas Administrative Code Chapter 352 (30 TAC §352) and in accordance with Title 40 of the Federal Code of Regulations Part 257 (40 CFR §257):

Provide the following information addressing in detail how the closure performance standards in 40 CFR 257.102(d) for leaving waste in place will be achieved, such as but not limited to:

- 1. Specifications, procedures, laboratory methods, and Construction Quality Assurance and Quality Control Plans.*
- 2. Detailed plans, elevation and cross sections, cover system details, slope stability, final cover grading plan drawings, hydrological evaluation of landfill performance.*
- 3. A survey map showing location of the area(s) that received cover or closed, active area(s), beneficial use area(s), and inactive area(s).*

This Supplement provides the following information regarding the proposed Final Cover System and future closure of the FAL:

1. A description of the Proposed Final Cover System;
2. Preliminary Technical Specifications;
3. Preliminary Plans for FAL Closure;
4. Slope Stability Analysis (SSA); and
5. Hydrologic Evaluation of Landfill Performance (HELP) Model.

TCEQ acknowledges that the specifications, plans, SSA, and HELP information that can be prepared at this stage can only be conceptual or preliminary in nature. This is due to the current uncertainty regarding the final volume of waste and waste composition that will be closed in-place at the FAL, final landfill and cover topography, available final cover products and materials selected as part of detailed design and generally accepted good engineering practices at that time. As a result, each of these design components are subject to change and will likely differ when detailed design is developed for bidding and construction purposes.

1. PROPOSED FINAL COVER SYSTEM

The proposed Final Cover System was designed to meet the requirements of 40 CFR §257.102 and consists of the following components from the top down:

- An infiltration layer consisting of 6 inches of vegetated (erosion resistant) topsoil overlying 12 inches of compacted clay rich soil;
- A 200-mil geosynthetic drainage net with 8-oz heat bonded geotextile on both sides;
- A textured 40-mil linear low density polyethylene (LLDPE) flexible membrane liner (FML); and
- A compacted soil cover consisting of 12 inches of compacted clay rich soil.

2. PRELIMINARY TECHNICAL SPECIFICATIONS

Preliminary technical specifications are included in Attachment 1 and provide a summary of closure activities and requirements for anticipated construction activities for the eventual FAL closure. Additional or revised specifications are likely to be appropriate in preparation for actual closure of the FAL and associated final detailed design when the final waste volume is known. At that time, the final cover products, materials, and generally accepted good engineering practices can be incorporated or refined. These specifications include the items listed below in the MasterFormat® (CSI Codes) framework or otherwise incorporated into Construction Notes on the Plans:

- Division 1: General Requirements
 - 01 10 00 Summary of Work
 - 01 31 00 Project Coordination
 - 01 32 00 Construction Documentation
 - 01 33 00 Submittals
 - 01 40 00 Quality Requirements, Quality Assurance/Quality Control (QA/QC)
 - 01 41 00 Regulatory Requirements
 - 01 42 00 Referenced Standards
 - 01 50 00 Temporary Facilities and Controls
- Division 2: Existing Conditions
 - 02 21 00 Surveys

- 02 41 00 Selective Demolition
- Division 31: Earthwork
 - 31 20 00 Earthwork and Grading
- Division 32: Exterior Improvements
 - 32 05 19 Geosynthetics

3. PRELIMINARY PLANS FOR FAL CLOSURE

Preliminary Plans for FAL Closure included in Attachment 2 were prepared to show closure construction sequencing, final cover design, and related stormwater drainage improvements. These Plans were also prepared to meet infiltration control, erosion resistance, and long-term stability requirements in 40 CFR 257.102

4. SLOPE STABILITY ANALYSIS

The SSA was prepared to confirm the Final Cover System meets the stability Closure Performance Standard under 40 CFR 257.102(d)(1):

"(iii) Include measures that provide for major slope stability to prevent the sloughing or movement of the Final Cover System during the closure and post-closure care period;"

SSA of FAL perimeter berms and evaluation of failure surfaces extending into landfill waste were not included in this analysis as they are subject to final design (future condition) criteria.

4.1 ANALYSIS METHODS

Slope Stability Analysis (SSA) of the preliminary landfill Final Cover System utilized the Limit Equilibrium Analysis (LE) following the methods outlined by in Analysis and Design of Veneer Cover Soils (Koerner and Soong, 2005). The SSA evaluates internal and interface downslope sliding based on published liner material properties, assumed material properties for proposed earthen materials, and estimated driving forces due to gravity.

4.2 SSA RESULTS

Results of SSA of the preliminary landfill Final Cover System resulted in static factors of safety of 20.8 and 3.5 for the 3% and 20% slopes evaluated, respectively. These results are well above the 1.3-1.5 factor of safety range recommended by Koerner and Soong (2005) for non-hazardous waste landfills.

5. HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE MODEL

The Hydrologic Evaluation of Landfill Performance (HELP) model of the concept Final Cover System (Attachment 4) evaluates water infiltration into, through, and out of the landfill.

5.1 HELP ANALYSIS

The hydrologic performance of the preliminary Final Cover System was evaluated using the most recent version of the model (HELP V 4.0, EPA 2020) which models the movement of water across, through, and out of landfills. Inputs used to model the Final Cover System were default layers, initial water content of each were set to represent steady state conditions. These inputs are presented in Table 1, below.

Table 1 – HELP Model Final Cover Inputs

HELP Model Component	HELP Model Layer Classification	Final Cover System Properties/Thickness
Surface Slope	(not applicable)	3%
Cover Vegetation	(not applicable)	Fair
Final Cover Soil (Topmost)	6 – Sandy Loam – SL	6 inches
Vertical Percolation Layer (Soil)	11 – Clay Loam – CL	12 inches
Geocomposite Drainage Net	20 - Drainage Net	200 mil
Geomembrane Liner	36 - Low Density Polyethylene	40 mil
Barrier Soil Liner	11 – Clay Loam – CL	12 inches
Waste	30 – High-Density Coal Fly Ash	21 feet
Barrier Soil Liner	2 - Sand	12 inches
Geomembrane Liner	35 – Geomembrane, HDPE	30 mil

Precipitation and temperature data were imported from the National Oceanic and Atmospheric Association (NOAA), and solar radiation data were imported from the National Renewable Energy Laboratory (NREL) for San Antonio, Texas.

5.2 HELP RESULTS

Results of the HELP model are provided in Attachment 4. The modeled average permeability through the Final Cover System barrier layer was 1E-6 inches per year and the modeled permeability through the bottom liner was 2E-6 inches per year (i.e. exhibiting less permeability than the bottom liner system).

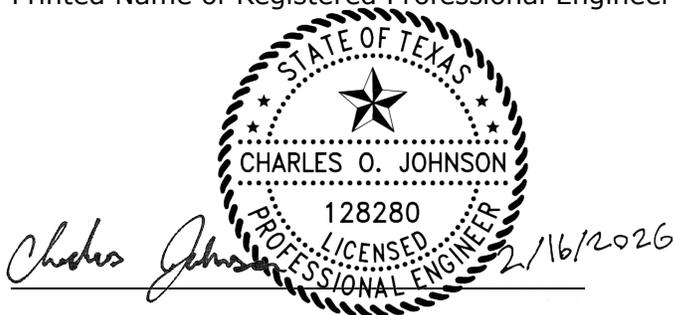
6. PROFESSIONAL ENGINEER'S CERTIFICATION

40 CFR §257.102 and 40 CFR §257.104 require that CPC Plans meet those requirements. In addition, a professional engineer must certify that any amendments to the CPC Plan meet requirements of those rules, and that closure of the CCR unit has been achieved in accordance with those rules. Certification for this CPC Plan is provided below.

"I hereby certify that I have reviewed the CCR unit management practices for the Calaveras Power Station in Bexar County, Texas, and being familiar with the provisions of 40 CFR Part 257.102 and 40 CFR Part 257.104, attest that this CPC Plan has been prepared in accordance with good engineering practices."

Seal: Charles Johnson, P.E., (TX)

Printed Name of Registered Professional Engineer



Signature of Registered Professional Engineer

2/16/2026 128280 Texas
Date Registration No. State

Attachments:

Attachment 1 – Preliminary Technical Specs

Attachment 2 – Preliminary Plans for FAL Closure

Attachment 3 – Slope Stability Analysis

Attachment 4 – HELP Model Results



ATTACHMENT 1

PRELIMINARY TECHNICAL SPECS

SECTION 01 10 00 SUMMARY OF WORK

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Definitions
- B. Work by Owner
- C. Contractor Use of the Site
- D. Site Conditions
- E. Site Conditions at Completion of Work
- F. Site Work

1.2 DEFINITIONS

- A. Contractor: The company authorized by the Owner to construct the Work.
- B. Contractor Health and Safety Plan (CHASP): The site-specific health and safety plan (HASP) prepared by the Contractor in accordance with OSHA requirements, 29 CFR 1910.120 et seq., and implemented by the Contractor and its employees at the Site.
- C. Design Documents: The final design Drawings and Specifications for the Work issued by CPS Energy.
- D. Engineer: The design engineer for the Work and also the Owner's Representative: Environmental Resources Management Southwest, Inc. (ERM), Austin, Texas.
- E. FAL: Fly Ash Landfill, also historically referred to as the 5-Year Landfill. Facility Notice of Registration (NOR No. 31445) unit No. 010.
- F. Owner: CPS Energy
- G. Owner's Representative: (TBD) The company authorized by the Owner to provide quality control oversight or manage the Work in this Contract.
- H. Site: The Calaveras Power Station located southeast of San Antonio, in Bexar County, Texas.
- I. Project: Includes those activities associated with FAL closure construction as shown on the Drawings and in accordance with the Specifications.
- J. Specifications: The specifications that define the requirements for products, materials, and workmanship to accomplish the Work.
- K. Texas Pollutant Discharge Elimination System (TPDES) Permit: TPDES Permit No. WQ0001514000.

- L. **Waste:** Construction debris and other waste generated during the performance of the Work at the Site, and designated for disposal in the FAL or at an off-site disposal facility approved by Owner.
- M. **Work:** Site preparation and construction of the final cover system over FAL waste and all associated drainage and access improvements as described in the Drawings, Specifications, other Project Technical Documents, and referenced requirements.

1.3 WORK BY OWNER

- A. The Owner will provide the following facilities and services without warranty and at no cost to the Contractor
 - 1. Provide limited equipment storage and material laydown areas near the site as approved for that purpose by the Owner's Representative.
 - 2. The Owner's Representative will review shop drawings and other informational data submitted by the Contractor in accordance with the Specifications.
 - 3. Upon delivery, the Owner's Representative will inspect products jointly with the Contractor.

1.4 CONTRACTOR USE OF THE SITE

- A. Contractor shall limit use of the Site to allow:
 - 1. Owner access to the Site.
 - 2. Work by other Owner contractors.
- A. **Access to Site:** Access: Limit all access to the areas and routes shown on the Drawings, in accordance with the on-site access road routes approved in advance by the Owner.
- B. **Construction Operations:** Limit construction operations to areas approved by the Owner's Representative and as shown on the Drawings.
- C. **Time Restrictions:** Limit work to normal facility workdays and hours (7:00 – 5:00) unless approved by the Owner's Representative. No work will be allowed on weekends, on Owner holidays, or between dusk and dawn unless approved in advance by the Owner.

1.5 SITE CONDITIONS

- B. **Location and Documentation of Facilities:** Confirm the location of (and absence of) aboveground and underground facilities.
 - 1. **Other Facilities:** Assume that undocumented subsurface structures and facilities may exist anywhere on the Site.
 - 2. **Subsurface Clearance:** Implement subsurface clearance for the Work in this Contract, including obtaining and documenting one-call pipeline and utility locations in accordance with Texas One Call Law and Utilities Code.
 - 3. **Documentation:** Document the depth, location materials, service, size, and other characteristics of underground utilities by annotating a copy of the Site Base Map. Draw annotated locations to scale.

4. **Stop Work for Obstructions:** Immediately stop work and notify the Owner's Representative if any buried pipe, structure, wire, or other obstruction is encountered during the work.

1.6 SITE CONDITIONS AT COMPLETION OF WORK

At the completion of the Work, the Contractor shall restore the Site to the following condition:

- A. The soil cover and related drainage shall be completely constructed to the lines and grades in accordance with the Drawings and Specifications.
- B. Existing roadways shall be returned to their original pre-construction condition, or better. Access roads shall be improved as indicated on the Drawings and Specifications.
- C. Roadways installed or improved as needed to provide access shall be restored to the improved condition, if needed, to eliminate ruts and low spots.
- D. The Work area shall be free of equipment, surplus materials, trash and debris.

1.7 SITE WORK

- A. **General Requirements:** Construct the Work in accordance with the Drawings and Specifications issued by the Owner for the Work and Contractor submittals approved by the Owner.
 1. **Health and Safety Program:** Develop and implement a health and safety program consistent with the Owner's Site-Specific Health and Safety Plan requirements.
 - a) **Field Safety Officer:** Provide services of a qualified and experienced Field Safety Officer who is a full-time employee of the Contractor; whose duties and responsibilities shall be the prevention of accidents and health hazards, and maintaining and supervising of safety precautions and programs associated with Contractor's work at the Site; and is on the Site continuously throughout the Work.
 - b) **Other Health and Safety Resources:** Provide other health and safety personnel, equipment, instruments, services, and supplies necessary to implement and document implementation of the health and safety plan accepted by the Owner for the Work.
 2. **Submittals:** Submit technical data and related information in accordance with Section 01 33 00 and related Sections prior to initiating the related part of the Work.
 3. **Permits:** Obtain and comply with each permit needed to initiate and complete the Work.
 4. **Coordination With Other Work:** Coordinate the Work with work done by others, including CQA inspection and testing, and with other field work at the Site contracted separately by The Owner.
 5. **Support CQA Inspection and Testing:** Notify the CQA Officer as soon as each stage of the Work is considered by the Contractor to be complete and ready for CQA inspection and testing in accordance with the CQA requirements for the Work described in these Technical Specifications and in the Drawings. Provide access and assistance to the CQA

Officer and staff in their obtaining field tests and samples of the Work for CQA inspection and testing.

6. Achieve CQA Acceptance Criteria: Achieve the corresponding CQA acceptance criteria described in Section 01 40 00 and in other individual Technical Specifications and as determined by the CQA Officer.
7. Field Engineering: Provide surveying and related work and services necessary for construction of the Work to the lines and grades shown on the Drawings.
8. Repair and Replacement: Repair or replace products unfit for use in the Work. Dispose of unfit materials as ordered by the Owner at no additional Contract cost.
9. Temporary Facilities and Controls: Construct, maintain, and remove temporary facilities and controls needed to implement the Work in accordance with Section 01 50 00.
10. Traffic Control: Develop and implement a traffic control plan approved by the Owner for the Work.
11. Products: Provide products for the Work specified on the Drawings and in the Specifications and in accordance with corresponding submittals approved by the Owner.
12. Project Record Documents: Record and submit project record documents in accordance with Section 01 33 00.

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 31 00 PROJECT COORDINATION AND MEETINGS

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Requirements for Project Meetings

1.2 JOB OPENING MEETING

- A. Participants: The Owner’s Representative; the CQA Officer; and Contractor’s project manager, site superintendent, field safety officer, field engineer, and CQC manager, and other representatives approved in advance or requested by the Owner’s Representative.
- B. Purpose: The purpose of the Job Opening Meeting is to designate responsible personnel and establish working relationships.
- C. Meeting Management: The Owner’s Representative will lead the Job Opening Meeting and keep minutes. The Owner’s Representative may distribute minutes to each person attending the meeting at CPS Energy’s discretion.
- D. Agenda: Matters requiring coordination will be discussed and procedures for handling such matters established. The agenda will include review of the following:
 - 1. Project work scope and goals.
 - 2. The project health and safety program.
 - 3. The Contractor’s project organization.
 - 4. The Contractor's project schedule.
 - 5. On-site communication and coordination.
 - 6. Transmittal, review, and distribution of Contractor submittals.
 - 7. Content and processing of Contractor invoices for payment.
 - 8. Scope and maintenance of project record documents.
 - 9. Critical work sequencing.
 - 10. Proposing, review, and authorization of change orders.
 - 11. Product and supply deliveries and priorities.
 - 12. Use of the Site, office and storage areas, security, and housekeeping.
 - 13. Plans for materials handling to prevent or limit release, spills or run-off of affected materials.
 - 14. Temporary facilities and controls.

1.3 PROGRESS AND COORDINATION MEETINGS

- A. Schedule: The Owner’s Representative will schedule and hold regular progress and coordination meetings each week, unless the Work is suspended due to a scheduled or unscheduled suspension of the Work approved in advance or ordered by the Owner.

- B. Purpose: Review of the progress of work, coordination of efforts, progress schedule, and resolving problems that may develop.
- C. Required Participants: The Owner’s Representative, the CQA Officer, and the Contractor’s site superintendent, field safety officer, and CQC manager.
- D. Requested Participants: The Owner’s Representative may approve or request attendance by representatives of suppliers, manufacturers, and subcontractors.
- E. Meeting Management: The Owner’s Representative will lead each meeting and keep minutes. CPS Energy may distribute or request distribution of minutes at its discretion.
- F. Agenda: The Contractor will describe progress since the last meeting, planned progress prior to the next meeting, and projected completion dates, including:
 - 1. Safety performance and improvements needed.
 - 2. Schedule status for:
 - 3. Each construction submittal;
 - 4. Each construction task; and
 - 5. CQC and CQA inspection and testing.
 - 6. Construction technical issues resolved and new issues.
 - 7. Construction coordination issues resolved and new issues.
 - 8. Coordination with other Remedy work.
 - 9. Contract administration issues.
 - 10. Other issues.

1.4 PROBLEM AND WORK DEFICIENCY MEETINGS

- A. Schedule: A problem or work deficiency meeting will be held when requested by the Owner’s Representative or the Contractor’s project manager when a problem or deficiency is present or seems likely to occur in the future.
- B. Participants: The Owner’s Representative and the Contractor’s site supervisor.
- C. Purpose: The purpose of each meeting will be to define and resolve problems and recurring work deficiencies, including:
 - 1. Definition and discussion of each unresolved problem and deficiency;
 - 2. Reviewing candidate solutions;
 - 3. Selecting a solution or a plan to obtain additional information to select a solution; and
 - 4. Scheduling implementation of the solution.
- D. Meeting Management: Each meeting will be lead and documented by the Owner’s Representative.
- E. Change Documentation: Detailed documentation will be made when expert technical judgments are obtained and used as a basis for decision to change the design or construction methods. Detailed documentation will also be mandatory for meetings dealing with major problems.

- F. Owner Approval: CPS Energy’s written approval will be required for each issue that requires revision of the approved Drawings and Technical Specifications, or which results in a change order.

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 32 00 CONSTRUCTION SCHEDULE AND PROGRESS DOCUMENTATION

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Work schedule responsibility, content, format, and submittal requirements.

1.2 WORK BY OWNER

- A. The Owner's Representative will review and comment on each Work Schedule submittal on behalf of the Owner.

1.3 FORMAT

- A. Type: Horizontal Gantt chart.
- B. Tasks: List each task in a column in sequence increasing from top to bottom.
 - 1. Submittal Tasks: Provide a row showing the schedule for each group of submittals that will be submitted at the same time.
 - 2. Product Delivery Tasks: Provide a row showing the schedule for each product and material delivered for the Work.
 - 3. Construction Tasks: Provide a row showing the schedule for each construction task.
- C. Start and Completion Dates: Show a column with start date and a column with completion date for each task.
- D. Task Sequence Dependencies: Show a column with each task sequence dependency.
- E. Task Progress Bars: Show a bar with initial planned progress and a separate bar for actual progress using visually distinguishable line pattern.
 - 1. Planned Progress Bars.
 - 2. Actual Progress Bars.
 - 3. Slack.
 - 4. Changed Tasks.
 - 5. Critical Tasks.
- F. Dependencies: Show lines connecting the appropriate start or completion end of each planned task progress bar with the appropriate start or completion end of the each associated dependent task progress bar.

1.4 WORK TASKS SHOWN ON THE SCHEDULE

- A. Tasks Shown: Show each task in the Site Work on a single project schedule prepared by the Site Work Contractor including each of the tasks listed below.
- B. Initial Work: Show the schedule for each initial Site Work task.

1. Notice to Proceed: Receipt of Notice to Proceed from the Owner, shown as a milestone that is Day/Week/Month Zero (0) of the schedule.
 2. Pre-Mobilization Submittal Preparation: Preparation of pre-mobilization submittals, showing preparation of each submittal as a separate subtask.
 3. Pre-Mobilization Submittal Review: Owner review and approval of pre-mobilization submittals, showing Owner review of each submittal as a separate subtask.
- C. Site Work: Show the schedule for each Site Work task listed below.
1. Site Work Mobilization: Mobilization of all field equipment, personnel, and construction facilities necessary to initiate Site Work.
 2. Installation of Temporary Facilities and Controls: Installation of temporary facilities and controls, including erosion and sedimentation controls.
 3. O&M of Temporary Facilities and Controls: Operation and maintenance of temporary facilities and controls, including erosion and sedimentation controls.
 4. Construction Access Improvements: Construction of construction access improvements.
 5. Selective Demolition: Demolition of concrete push wall and other existing improvements designated for demolition in stages needed to accomplish the Work.
 6. Waste Grading and Final Cover Installation: grading, fill, and cover installation in stages needed to accomplish the Work.
- D. Completion Work: Show the schedule for each task, including the following.
1. Pre-Final Inspection: Pre-final inspection and Owner issuance of a punch list, with a subtask for each component of the Work.
 2. Punch List Work: Work necessary to complete the Work on the punch list items.
 3. Pre-Certification Inspection: Owner pre-certification inspection and interim acceptance of that part of the Work.
 4. Agency Certification Inspections: Inspection of the Work with the Owner and agencies if requested.
 5. Closeout Submittals: Submittal of closeout submittals.
 6. Acceptance of Closeout Submittals: Owner acceptance of the closeout submittals.
 7. Request for Final Payment: Submittal of the request for final payment to the Owner.
 8. Acceptance of the Work: CPS Energy acceptance of the Site Work and issuance of Final Payment. While the Owner makes no representation that it can accomplish review and approval of currently-unknown quality and scope project closeout documents, assume and show a 60 calendar day duration for this task.
- E. Other Tasks: Add other tasks proposed or needed to describe all Work tasks in appropriate sequence.

1.5 WORK SCHEDULE SUBMITTAL REQUIREMENTS

- A. Initial Work Schedule: Submit the draft initial work schedule within five days of the date of the Owner Notice to Proceed. Make changes responsive to Owner comments and submit

the final initial work schedule within two days of receipt of Owner comments on the draft initial work schedule.

- B. Updated Work Schedule: Submit an updated work schedule at least two days prior to each work progress meeting. If the work schedule is unchanged from the prior period, submit a written notice to Owner to that effect. Revise the work schedule responsive to CPS Energy comments in the work progress meeting and issue the revised schedule to meeting participants within 24 hours of the end of the meeting.
- C. Submittal Procedure: Submission of initial and updated work schedules must be made to the Owner scheduling/planning team. A letter of transmittal to each work schedule submittal shall be attached. Include the following information in the transmittal letter:
- D. Changes: A list of items that were changed from the prior submittal and each prior and proposed values.
- A. Problems: Discussion of each problem causing a delay, the anticipated length of each delay, and each proposed remedy to correct the delay and to recover the schedule to the prior agreed completion date.

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 33 00 SUBMITTALS

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Submittals required for the Work in this Contract, including:
 - 1. General requirements.
 - 2. Pre-mobilization submittals.
 - 3. Progress submittals.
 - 4. Request for Information submittals.
 - 5. Change Order submittals.
 - 6. Project close out submittals.

1.2 GENERAL SUBMITTAL REQUIREMENTS

- A. Contractor Approval: Prior to submitting to the Owner's Representative for approval, include a stamp or form on each document that includes the project name, the submittal number, the submittal subject, the notation "APPROVED BY [the name of the Contractor]", the signature of an authorized representative of the Contractor, and the date.
- B. Document Size: 8½-inches x 11-inches, 11-inches x 17-inches, or 24-inches x 36-inches unless otherwise approved by the Owner's Representative.
- C. Number: Submit one electronic copy of each document to the Owner's Representative.
- D. Contractor shall provide a contractor Submittal Log that records each submittal. This log shall be updated and submitted with each Contractor submittal unless otherwise authorized by the Owner's Representative. The Submittal Log shall contain:
 - 1. Submittal Number (sequence to be determined by the Contractor);
 - 2. Submittal description (i.e. topsoil sample data, seed specification, etc.);
 - 3. Certificate(s) and Accompanying Affidavit;
 - 4. Shop Drawing;
 - 5. Specification Reference;
 - 6. Date;
 - 7. Submittal Status; and
 - 8. Comments or Miscellaneous Data.

1.3 PRE-MOBILIZATION SUBMITTALS

- A. Submittal Log: At, or in advance of the Pre-Construction Meeting, the Contractor shall furnish the Owner's Representative with a Submittal Log that includes the following submittals:

1. Work Plan;
 2. Quantity Take-Offs;
 3. Existing Conditions Survey;
 4. Contractor Health and Safety Plan (CHASP);
 5. Contractor Construction SWPPP (SWPPP);
 6. Copies of applicable Permit Applications prepared by Contractor;
 7. Copies of applicable Permits received by Contractor;
 8. Initial Construction Schedule and subsequent revisions;
 9. Proposed format of Post-Closure Monthly Inspection Reports and Weekly Inspection Forms;
 10. Prequalification Sample Data and Product Data;
 11. Certificates, Affidavits, and Warranties;
 12. Shop Drawings;
 13. Daily Reports;
 14. Technical Data;
 15. Product Selection and Substitution information;
 16. Project Closeout Notifications and information; and
 17. Project Record Documents.
- B. For each item on the Submittal Log, the Contractor shall indicate the proposed source of supply or manufacturer for that entry.
- C. The Owner's Representative will review the Contractor's proposed source of supply or manufacturer for each entry and note any exceptions taken, and then return the Submittal Log to the Contractor within fourteen (14) calendar days.
- D. Work Plan: The Contractor must prepare a draft Work Plan with sufficient detail for the Owner to understand methodologies and track completion of specific subtasks and preview upcoming tasks. The Work Plan shall be submitted and approved by the Owner within 2 weeks of notice of award to the Contractor and at least one week prior to site mobilization. The draft Work Plan shall summarize the anticipated approach and methods to accomplish the scope of work consistent with the requirements in these Technical Specifications. The draft Work Plan shall discuss site preparation, stormwater and contact water management, job staging, staffing, work sequencing, material handling and transportation, and transportation and disposal of waste. All critical assumptions, performance risk, permit or regulatory requirements and anticipated conflicts must be identified and discussed.
- E. Quantity Take-Offs: Prior to mobilization the Contractor must prepare and provide to the Owner's Representative quantity take-offs of all quantities presented in the bid form. Material quantities presented in the bid form are estimates and are not guaranteed. Confirmation of actual quantities needed for the project are the responsibility of the Contractor. Adjustment in Contract Unit Prices will not be allowed outside of 20%+/- of the estimates presented in the bid form. Increase in contract quantities will not be allowed

after mobilization unless both Contractor and Owner agree a change in quantity is warranted due to unforeseeable site conditions or events.

- F. Existing Conditions Survey: Prior to mobilization the Contractor must perform a site survey of existing site conditions including photo documentation of the condition of site features (including but not limited to proposed laydown areas, site drainage features, site roads, prior to mobilization and construction. Contractor must provide the existing conditions survey to the Owner's Representative prior to mobilization. Site features affected by the Work must be repaired to pre-existing condition or better. Improvements made to the site as part of the Work must be left in-place unless requested to be removed by the Owner.
- G. Contractor Health and Safety Plan: As an attachment to the Work Plan, the Contractor shall prepare a site-specific Contractor Health and Safety Plan (CHASP). The draft CHASP shall be submitted to the Owner for review, comment, and approval within 2 weeks of notice to proceed.
- H. Contractor Construction Stormwater Pollution Prevention Plan (SWPPP): As an attachment to the Work Plan, the Contractor shall prepare a draft site-specific Construction SWPPP for review and comment by the Owner's Representative at least one business week prior to Contractor intent to submit the Notice of Intent (NOI) to the TCEQ.
- I. Required Permits: The Contractor shall identify and secure any necessary permits to conduct the work not already obtained by the Owner. It is the Contractor's responsibility to ensure all required permits are procured for the work.
- J. A Notice of Intent (NOI) to the TCEQ will be required for the Work and will be obtained by the Contractor. Contractor will provide the Owner's Representative a copy of the the draft NOI for review and comment at least one business week prior to Contractor intent to submit to the TCEQ.
- K. Initial Construction Schedule: Within 10 business days following issuance of the Owner's Notice to Proceed, submit an electronic copy of the initial construction schedule specifying a projected start and completion date for all items of Work.
- L. Post-Closure Monthly Inspection Reports: Submit the proposed format of Post-Closure Monthly Inspection Reports.

1.4 PROGRESS SUBMITTALS

- A. Prequalification Samples, Prequalification Sample Data, and Product Data:
 - 1. Prior to commencement of the Work and prior to ordering materials, the Contractor shall submit samples of materials to the Owner's Representative for inspection. Such samples shall be provided by the Contractor as directed by the Owner's Representative.
- B. Certificates, Affidavits, and Warranties:
 - 1. 1. Where specified in the Specifications that a certificate, affidavit, or warranty be submitted to the Owner's Representative for a particular material, product or product component, such submittals shall be made in accordance with the following:

- a. Equipment, Materials, and Products: A Certificate of Compliance shall indicate that the equipment, material, product, or product component complies with the requirements of the Specifications, and it shall be accompanied by test results and/or other technical data substantiating such compliance. The certificate shall be supplied by the material supplier or product component manufacturer.
- b. Installation: A Certificate of Compliance shall indicate that the equipment or system has been properly installed in compliance with manufacturer's instructions and is ready to be operated. The certificate shall be supplied by the equipment or system manufacturer or manufacturer's representative.
- c. Equipment, materials, products and their installation shall be warranted in accordance with these Construction Documents. All warranties shall be submitted for review prior to delivery of the equipment, materials or products to the site and must be acceptable to the Owner. Limited warranties shall not be acceptable to the Owner unless specifically agreed to by the Owner in writing.
- d. Each certificate shall include a signed sworn statement by an official of the company originating the certificate attesting to the truth and accuracy of all information contained in the certificate. If such attestation of truth and accuracy cannot be included in the certificate itself, it must be provided as an affidavit accompanying the certificate.

C. Shop Drawings:

1. Electronic copies of each Shop Drawing, certified correct for construction, shall be submitted for the review of the Owner's Representative as soon as possible after approval of the Submittal Log.
2. At the time of each submission, the Contractor shall, in writing, notify the Owner's Representative of any deviation that the Shop Drawings have from the requirements of the Drawings and Specifications. Failure to note deviations shall not excuse the Contractor from complying with the requirements of the Drawings and Specifications. Contractor's responsibility for deviations in submittals from Contract Document requirement is not relieved by Owner's Representative's review of submittal unless Owner's Representative gives written acceptance of specific deviation.
3. Contractor is responsible for correctness of dimensions, fabrication details, quantities, and coordinating component parts and trades to effect unified construction in accordance with Contract Documents. Delays caused by failure of Contractor to check shop drawings and to stamp with this approval shall be Contractor's responsibility. Coordinate each submittal with Contract Documents and work schedule to prevent any delay in work.
4. Where literature is submitted covering a group or series of similar items, items intended for use shall be clearly indicated, identified, and labelled.
5. Submit shop drawings showing revisions to equipment layouts or modifications to work because of use of alternate or substitution items.
6. No extension of time will be allowed because of failure to properly coordinate and sequence submittals.

- D. Progress Survey and Quantity Take-Off: Submit an updated progress survey and updated quantity take-off estimate for materials used and projected. Include any discrepancies identified with bid quantities on a rolling weekly basis and a minimum of every 2 acres per layer completed, whichever is more frequent. Provide progress survey in .pdf and .dwg format, provide quantity take-off estimate in .pdf and .xlsx format.
- E. Construction Schedule: Submit an updated construction schedule every week, or as requested by the Owner's Representative, in electronic format by email.
- F. Daily Reports: Submit daily reports on each subsequent work for the previous work day. Daily reports will include at a minimum a summary of work completed, safety or environmental incidents or near-misses, weather conditions, personnel and a summary of man hours worked, subcontractor activities and hours, equipment owned or rented on-site, submittals, deliveries and ticket nos., shipments, problems or delays encountered or resolved.
- G. Notice of Potential Issue and Request for Information (RFI): As soon as practical following identification of a potential problem, delay, significant precipitation or flood event as defined in the Bid Form, or changed condition (potential issue), Contractor will provide a notice to the Owner's Representative via email or phone call describing the potential issue. If notice is provided by phone call Contractor will follow with email to Owner's Representative documenting the potential issue. Owner's Representative must be notified ahead of time to allow for progress of the Work. After initial notice is completed, Contractor will follow with a formal RFI summarizing the nature of the potential issue, the proposed solution and/or seeking guidance to address the potential issue. At a minimum Contractor must provide an RFI two full business days prior to the potential issue potential to affect the Work. If the potential issue is a significant precipitation or flood event, Contractor must notify Owner's Representative by providing an RFI within one week of the end of the event documenting the impact to the project. Upon resolution of the issue, if any, or finalized guidance agreed by Contractor and Owner's Representative the Owner's Representative will return the finalized RFI and any attached guidance or changed section(s) of the Specifications, Drawings, or other supporting document(s).
- H. Technical Data: Submit technical data in accordance with the Technical Specifications.
- I. 10 Day Notice: Submittal of the 10 day Asbestos Notification to the Texas Department of State Health Services days prior to the demolition of the retaining wall structure.
- J. Product Selection and Substitution: Contractor requests for review of substitutions will be considered by Owner's Representative only after the effective date of the Contract. Conform to all the requirements of the Contract documents, including all requirements of the Drawings and Technical Specifications. The use of proprietary products or processes shall conform to the requirements of the Contract.
 - 1. Contractor's Representation: In making a request for a substitution the Contractor represents that the proposed substitute product or method has been investigated by the Contractor and determined by the Contractor to be equal or superior to the product or method specified on the Drawings and in Technical Specifications.

2. Coordinate installation of the substitution accepted by Owner’s Representative into the Work.
 3. All claims for additional costs related to the substitution that subsequently become apparent are waived by the Contractor.
 4. Complete cost data are provided and all related costs under this Contract are included.
 5. Comparative Information: Furnish all information that Owner’s Representative deems necessary to compare the quality of the proposed substitution to that specified.
 6. Cost Reimbursement: Incur all direct costs related to the review and examination of the product, including laboratory testing requested by Owner’s Representative.
- K. Geotechnical Construction Report: Contract with a Geotechnical Professional Engineering Firm (Geotech Firm) to oversee and direct subgrade preparation, fill placement, and compaction of soil fill. The Geotech Firm will provide a Construction Report upon completion of earthwork documenting construction methods and observations.
- L. Review: Revise and resubmit submittal data, as needed, in response to comments by The Owner’s Representative.

1.5 CHANGE ORDER SUBMITTALS

- A. General Requirements: Submit each Change Order submittal immediately upon identifying a corresponding change to the Project.

1.6 PROJECT CLOSEOUT SUBMITTALS

- B. General Requirements: Submit Project close out submittals on completion of the Work in this Contract.
- C. Notice of Completion: Submit written notice of completion, as a report that documents execution of the Project in accordance with the planning documents previously approved by Owner for the Work in this Contract.
- D. “As-Built” Drawings: Keep current, and submit upon completion of the Work, a legible annotated copy of the Drawings with accurate and complete “as-built” dimensions, lines, grades and materials constructed for the Work.
- E. Liens and Taxes: Submit documentation demonstrating that all contractor liens or other encumbrances have been satisfied and removed, and that relevant fees and taxes for the Work have been paid.

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 40 00 QUALITY ASSURANCE AND QUALITY CONTROL

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Definitions
- B. Work by Owner
- C. Work by Contractor
- D. CQA Acceptance Criteria
- E. CQC Acceptance Criteria

1.2 DEFINITIONS

- A. Construction Quality Assurance (CQA): procedures for inspection and documentation of construction activities, to provide a reasonable assurance that the completed work will achieve the design criteria as described in the Drawings and Specifications. Specific CQA requirements for different components of the Work are indicated throughout the Specifications. The scope and objectives of the CQA Program includes:
 - 1. Specify inspections and tests to be performed during the implementation and construction of each component.
 - 2. Provide procedures for evaluating materials and workmanship.
 - 3. Define requirements for documentation of CQA activities
 - 4. Provide a framework to assure that unexpected changes or conditions that could adversely affect facility performance will be detected, documented, and corrected during construction.
- B. Construction Quality Control (CQC): procedures for inspection, sampling and testing to provide reasonable confirmation that the completed work achieves the design criteria as described in the Drawings and Specifications. Specific CQC requirements for different components of the Work are indicated throughout the Specifications. The scope and objectives of the CQA Program includes:
 - 1. Verify the equipment used in testing meets the test requirements and that the tests are conducted by qualified personnel according to the standardized procedures defined by the Drawings and Specifications.
 - 2. Monitor and/or perform testing as required by the Drawings and Specifications.
 - 3. Perform on-site inspection and testing of the work in progress to assess compliance with the Drawings and Specifications
 - 4. Report to the CQA Officer the results of all inspections and testing including work that is not of acceptable quality or fails to meet the specified design.

1.3 WORK BY OWNER

- A. The Owner will review and approve all design modifications or amendments to the CQA Program prior to implementation. The Owner has the authority to select and dismiss the Design Engineer, the Construction Manager, the Construction Contractor, and their subcontractors.
- B. The Engineer, under contract with the Owner, will manage the CQA Program and review any proposed changes to the design criteria, Drawings, and Specifications, and will oversee CQC activities and review the CQC data sheets, reports, test results and recommend corrective measures as necessary.

1.4 WORK BY CONTRACTOR

- A. General Requirements: The Contractor will develop a CQC Plan and implement the CQC Program supplemental to, and consistent with, requirements of the CQA Program and will report to the Engineer and Owner results of all inspections and tests including work that is not of acceptable quality or fails to meet the specified design. The Contractor will work with the Engineer and Owner to correct work that is not of acceptable quality or fails to meet the specified design and coordinate CQC activities of corrected work.
- B. CQC Plan Components: Prepare a CQC Plan describing the CQC Program for the Work in this Contract.
 1. Project Background: Project background, scope, and purpose of the CQC Plan, and the CQC Plan organization.
 2. CQC Organization: The CQC organization and required meetings.
 3. CQC Staff: Name, qualifications, duties, and employer of each staff specific to CQC.
 4. CQC Laboratories: Name and qualifications of each analytical and materials testing laboratory.
 - a. Analytical Testing Laboratory: Contract with an analytical testing laboratory acceptable to the Owner and currently accredited by NELAP and the TCEQ to submit the type of analytical testing assigned by the Contractor.
 - b. Construction Materials Testing Laboratory: Contract with a construction materials testing (CMT) laboratory acceptable to the Owner and currently approved by American Association for Laboratory Accreditation for the type of CMT testing assigned by the Contractor.
 5. CQC Inspection: Media subject to inspection, the type of inspection, the frequency of inspection, and the corresponding acceptance criteria.
 6. CQC Field Testing: Media subject to field testing, the type of field testing, the frequency of field testing, and the corresponding acceptance criteria.
 7. CQC Sampling and Testing: Media sampled, the type of sample, the frequency of sampling, the type of sample preservation, the type of analytical and materials testing, and the corresponding acceptance criteria.
 8. CQC Report Forms: CQC inspection and testing report forms.

- C. CQC Plan Implementation: Implement the CQC Plan approved by the Owner and Engineer throughout the Work.
- D. Notification of Completion of Work Components: Notify the Owner and Engineer when each stage of each Work component in this Contract is considered complete by the Contractor and ready for CQC testing.
 - 1. Assist the Owner and Engineer Observation of Implementation of the CQC Plan including observation of the CQC inspection, field testing, and sampling of the Work.
 - 2. Source Samples: Assist the Owner and Engineer observation of proposed CQC source materials from the sources the Contractor proposes to use for the Work.
 - 3. Inspection: Assist the Owner and Engineer access to the Work to observe Contractor CQC inspection work in progress.
 - 4. Field Testing and Sampling: Assist the Owner and Engineer access to Contractor CQC field tests and sampling of components of the Work that the Contractor believes to be complete.
- A. Evaluation of Achievement of CQA Acceptance Criteria: Prepare reports with CQC data and a statement about Contractor’s belief that the CQC data achieves, or does not achieve, the corresponding CQA acceptance criteria for the Work. Obtain additional CQC data and make other changes required by the Owner or Engineer to demonstrate achievement of the CQA acceptance criteria at no additional Contract Cost.
- B. Corrective Measures: On notification by the Owner or Engineer that a CQC inspection, field test, or analytical or laboratory test for the Work in the Contract failed any of the corresponding CQA Acceptance Criteria, repair, rework, or replace the related Work component(s).
 - 1. Notify the Owner and Engineer when the Contractor believes the corrective measures implemented for the work component are complete.
 - 2. Assist the Owner and Engineer in observing Contract CQC implementation of the CQC inspection, field testing, and/or sampling of the component of the Work subjected to corrective measures.
 - 3. Repeat that process as needed to achieve the CQA Acceptance Criteria for the related Work component(s).

1.5 CQC ACCEPTANCE CRITERIA

- A. General Requirements: Achieve each of the corresponding CQC acceptance criteria listed in the CQC Plan for the Work in this Contract unless the Owner waives a CQC acceptance criteria for that CQC inspection, field test, sampling, or test result in writing.

1.6 CQA ACCEPTANCE CRITERIA

- A. General Requirements: Achieve each of the corresponding CQA acceptance criteria listed in the Technical Specifications and Construction Notes on the Drawings for the Work in this Contract unless the Owner waives a CQA Acceptance Criteria in writing.

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 41 00 REGULATORY REQUIREMENTS

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. Compliance with regulatory requirements applicable to the Work.

1.2 GENERAL REQUIREMENTS

- A. Comply with the requirements listed in this section, other sections, and all other applicable federal, state, and local laws, ordinances, rules, and regulations at no additional Contract cost.
- B. Applications: Prepare and submit timely applications to the appropriate agencies for off-site activities requiring agency approval, permits, or other actions, except those completed by others.
- C. Comply with those requirements of the Drawings, Specifications, Contractor's HASP approved by the Owner's Representative, and Owner's requirements which are applicable to the Work.
- D. Comply with the Coal Combustion Residuals (CCR) Rule requirements contained in 40 Code of Federal Regulations (CFR) 257, 30 Texas Administrative Code (TAC) 352
- E. Comply with the Fugitive Dust Control (FDC) Plan, the Run-On and Run-Off Control System Plan (ROROCSP), Inflow Design Flood Control System Plan (IDFCSP), and Closure and Post-Closure (CPC) Plan prepared by CPS Energy for compliance with those regulations.
- F. Comply with the Texas Pollutant Discharge Elimination System (TPDES) General Permit TXR150000 Relating to Stormwater Discharges Associated with Construction Activities.
- G. Comply with Asbestos regulations contained in 25 TAC 296 and Texas Department of State Health Services rules for structural demolition notifications.
- H. Comply with the facility Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0001514000.
- I. Prepare and comply with the Storm Water Pollution Prevention Plan for Construction (SWPPP).

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 42 00 REFERENCED STANDARDS

1. PART 1 – GENERAL

1.1 REQUIREMENTS

- A. Standards: Perform the Work required by the Contract in compliance with the standards referred to below and in the various Specification sections. The referenced standards and publications of organizations and societies shall be considered an integral part of the Specifications to the extent referenced.
- B. Referenced Material: Referenced publications and standards are included in the text of the various sections by basic designation only, with the organizations and societies referenced by abbreviations.
- C. Date of Issue: When the date of issue is omitted for referenced standards, the date of issue shall be considered to be the latest issue date at the time of bidding.

1.2 APPLICABLE CODES

- A. Conform to laws and codes by which the Work has been designed in the execution of the Work. The Contractor shall make available for use at the site such copies of laws, regulations, or codes applicable to the Work as requested by Owner.

1.3 ABBREVIATIONS AND ACRONYMS

- A. Abbreviations of the names and organizations used on the Drawings and in the Technical Specifications are shown below. Abbreviations shall be interpreted according to their recognized and well-known technical or trade meanings including the following:

AASHTO	American Association of State Highway and Transportation Officials
ACI	American Concrete Institute
ANSI	American National Standards Institute
API	American Petroleum Institute
ASCE	American Society of Civil Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWWA	American Water Works Association
EPA	United States Environmental Protection Agency
Fed Spec	Federal Specification

hp	horsepower
hr	hour
NPDES	National Pollutant Discharge Elimination System
OFCI	Owner Furnished Contractor Installed
OFCR	Owner Furnished Contractor Relocated
OSHA	Occupational Safety and Health Administration, U.S.
PCA	Portland Cement Association
TCEQ	Texas Commission on Environmental Quality
TPDES	Texas Pollutant Discharge Elimination System
TxDOT	Texas Department of Transportation
UL	Underwriters’ Laboratories, Inc.
USACE	U. S. Army Corps of Engineers

1.4 TECHNICAL ABBREVIATIONS AND ACRONYMS

- A. Common technical abbreviations for units and measures that may be found in the Technical Specifications and on the Drawings are defined as follows:

avg	average	CQA	construction quality assurance
BCY	Bank Cubic Yard (in situ undisturbed volume)	CQC	Construction Quality Control
B/L	baseline	cu ft, cf	cubic feet
C	Centigrade (or Celsius) degrees (temperature)	cu in	cubic inch
CCY	Compacted Cubic Yard (final constructed volume)	cu yd, cy	cubic yard
cfm	cubic feet per minute	deg	degree (angle)
cfs	cubic feet per second	DO	Dissolved Oxygen
C/L	centerline	DWG	drawing
CONC	concrete	E	East
CONT	continuous	eff	efficiency
CPP	Corrugated Polyethylene Pipe	elev,	Elelevation
		E.R.	edge of road
		EXIST	existing

F	Fahrenheit, degrees (temperature)	kwh	kilowatt-hour
FG, F.G.	finish grade surface or elevation	L	liter
F/L	flowline	lb, lbs	pound, pounds
FML	flexible membrane liner	LCY	Loose Cubic Yard
fph	feet per hour	lin ft, LF	linear foot, linear feet
fpm	feet per minute	LS	lump sum
fps	feet per second	m	meter
FS	Federal Specification (number prefix)	MAX	maximum
ft	feet	mg	milligram
ft-lb	foot-pound	mgd	million gallons per day
g	gram	mg/L	milligram per liter
gal	gallon	min	minute
GALV	Galvanized	mL	milliliter
gpad	gallons per acre per day	mm	millimeter
gpd	gallons per day	MSL	mean sea level
gpm	gallons per minute	N	North
gps	gallons per second	NAVD 88	North American Vertical Datum, 1988
HDPE	high density polyethylene	NC	normally closed
Hg	mercury	NIC	Not in Contract
hp	horsepower	NG	natural ground surface or elevation
hr	hour	NO	normally open
Hz	Hertz	NOM	Nominal
ID	Inside Diameter	No., no.	number
I/I	Infiltration/Inflow	NPSH	net positive suction head
in	inch	NPS	nominal pipe size
in-lb	inch-pound	NPT	National Pipe Thread
Int	Interior	NPTF	National Pipe Thread, Female (end)
kg	kilogram	NPTM	National Pipe Thread, Male (end)
kv	kilovolt	NRC	noise reduction coefficient
kva	kilovolt-ampere	NTS	Not to scale
kw	kilowatt	O.C.	on center

OCEW	on center each way	sec	second
OD	outside diameter	sFT	U.S. Survey Feet
OHP	overhead power	sp gr	specific gravity
O&M	operation and maintenance	sq	square
oz	ounce	sq ft	square foot
		sq in	square inch
pcf	pounds per cubic foot	sq yd, SY	square yard
PE	polyethylene	SS	suspended solids
PERF	perforated	std	standard
perm	permeability	STR	Structural
ppb	parts per billion	SWD	side water depth
ppm	parts per million		
PROP	proposed	TDH	total dynamic head
psf	pounds per square foot	TO	top of
psi	pounds per square inch	TOB, T.O.B.	top of bank (location or elevation)
psia	pounds per square inch absolute	T.O.C.	top of concrete
psig	pounds per square inch gage	TOS, T.O.S.	toe of slope (location or elevation)
PVC	polyvinyl chloride	TYP	Typical
RCP	Reinforced Concrete Pipe	UON	unless otherwise noted
Rev	Revision		
rms	root mean square	W	West
RMSE	root-mean-square error	WC	water column
rpm	revolutions per minute		
S	South	yd	yard
scfm	standard cubic feet per minute	yr	year

2. PRODUCTS

Not used.

3. EXECUTION

Not used.

END OF SECTION

SECTION 01 50 00 TEMPORARY FACILITIES AND CONTROLS

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. General Requirements
- B. Temporary Facilities
- C. Temporary Utilities
- D. Sanitary Facilities
- E. Drainage Facilities
- F. Stormwater and Erosion Control
- G. Dust Control

1.2 GENERAL REQUIREMENTS

- A. Furnish, install, and maintain construction facilities required for construction; remove on completion of work.
- B. Facilities and controls specified in this section are considered the minimum required for the project.
- C. In addition to those facilities and controls shown on the Drawings and described elsewhere in the Specifications, provide facilities and controls that the Contractor considers necessary to accomplish the Work, subject to approval of Owner or Owner's Representative, at no additional Contract cost.
- D. Provide protection against damage from vandalism, theft, weather, or other causes to completed work, work in progress, materials, and apparatus.
- E. Provide construction aids, inspection aids, and equipment required by personnel to facilitate completion of the work.
- F. Erect and maintain, as required by existing conditions and the progress of Work, reasonable safeguards for workers safety, including, but not limited to, posting danger signs and other warnings against potential hazards.

1.3 TEMPORARY FACILITIES

- A. Contractor Field Office: Provide a field office with acceptable appearance may be erected at a location near the work site approved by Owner's Representative.
- B. Owner's Representative Field Office: Provide a separate field office with acceptable appearance at a location near the work site approved by Owner's Representative.
- C. Supply Trailer: If deemed necessary by the Contractor, maintain a supply trailer with acceptable appearance near the work site for storage of equipment and supplies.

- D. Change, Lunch, and Break Facilities: Provide change, lunch, and break facilities for use by Contractor personnel as required.
- E. Maintain all temporary facilities in good repair and acceptable appearance and perform maintenance and repairs as necessary.

1.4 TEMPORARY UTILITIES

- A. Electric Power:
 - 1. If preferred by the Contractor and approved by Owner, arrange for public utility electric power installation in accordance with applicable state, federal, and local regulations and electrical codes, and pursuant to the safety guidelines and requirements of Owner.
 - 2. Contractor will be responsible for all work necessary to provide power to work area from connection at existing public utility power poles at locations approved by Owner's Representative.
 - 3. Provide portable and temporary power supply, controls, fuel, and transmission, if needed by the Contractor and if permitted by Owner or Owner's Representative, at no additional Contract cost.
 - 4. Do not interconnect Owner's power supply or ground with any temporary power supply or ground unless otherwise approved in writing for each interconnect by Owner's Representative.
- B. If night work is approved by Owner, during hours of darkness, provide an illuminated route from the site entrance to the staging area for emergency access. Contractor shall also illuminate main electrical equipment and other equipment for which emergency access is required.
- C. If night work is approved by Owner, provide power to safety lighting for excavations and other obstacles that are not apparent as safety hazards. Provide safety lighting, as needed, at all times when site personnel are present. Provide work lighting, as needed.
- D. Obtain all necessary water service adequate to implement the work. Contractor will be required to pay for potable water at no additional Contract cost. Construction water will be available for Contractor use from Owner's approved location.
- E. All temporary utilities shall be structurally, mechanically and electrically sound. Maintain utilities to give safe, continuous service and to provide a safe working environment. Modify and extend systems as work progress requires.

1.5 SANITARY FACILITIES

- A. Facilities: Provide and maintain separate, self-contained sanitary facilities for both men and women in accordance with the requirements of local or state health authorities, ordinances, and laws. Restrict access to sanitary facilities according to gender. No on-site sanitary facilities are available.
- B. Removal: Remove facilities and restore site to its original condition upon completion of the work.

1.6 DRAINAGE FACILITIES

- A. Drainage Facilities: Maintain and, if necessary, modify surface grading, drainage channels, temporary pumps and piping supplied by the Contractor, and other necessary facilities, including additional facilities if necessary, to drain the site during construction as approved by Owner's Representative. Restore all drainage facilities to existing condition unless otherwise approved by Owner's Representative.
- B. Landfill Pond Drainage: Drain the ponded water located within the FAL to the on-site FAL Runoff Pond in accordance with the facility's TPDES permit. Manage stormwater runoff from exposed FAL waste via pumping to the FAL Runoff Pond until the waste material is covered with clean cover and no longer generates contact stormwater. Once waste is no longer in contact with stormwater and after approved by the Owner's Representative, stormwater drainage can be managed in accordance with the construction SWPPP. Separation of waste from stormwater is defined as either completed geomembrane liner or at least the first 6-inch compacted clay cover lift is complete over waste material.
- C. Area Drainage: Establish and maintain site drainage at all times during the course of the work in accordance with requirements of the site construction SWPPP. Maintain site drainage and provide water management equipment sufficient to prevent delay or affect cost or schedule of the Work.

1.7 STORMWATER AND EROSION CONTROL

- A. Take sufficient precautions during construction to reduce the potential for runoff or entrainment within the pumped stormwater of substances such as sand, silt, clay, fuel, oils, bituminous materials, waste material and other materials (i.e., affected soil, and affected stormwater) within the stormwater pumped to the FAL Runoff Pond. Install temporary controls as needed to confirm pumped water is free of oil, sheen, debris, and sediment before it reaches surface drainage channels. Install erosion and sedimentation controls and other BMPs as needed prevent the release of sediment, oil, and other contaminants to water bodies, storm sewers, offsite areas, or sensitive environments from construction work via excavation, clearing and grubbing, backfilling, grading, dewatering, material staging, traffic entering and leaving the Site, or other land disturbing activities. This task shall be initiated as part of the SWPPP and must be completed before any soil disturbance work can be performed on the Site.
- B. At a minimum, establish controls according to the construction SWPPP. Provide additional controls as necessary to achieve the requirements specified in Owner's TPDES permit, including, but not limited to management of all stormwater contacting landfill areas or waste in accordance with the permit.

1.8 DUST CONTROL

- A. Limit the generation of dust at the work site by applying water at frequencies and rates sufficient to control dust originating from traffic and construction activities associated with the Work.
- B. Use methods reviewed and approved by Owner's Representative.

2. PRODUCTS

2.1 MATERIALS

- A. Materials must be new, suitable for their intended purpose and selected in accordance with the requirements of applicable codes and standards.
- B. Construction Pumps: Provide and maintain pumps to remove water from areas where it hinders or prevents the progress of work, or where it presents a hazard to part or all of the Work.

3. EXECUTION

3.1 DRAINAGE DURING CONSTRUCTION

- A. Drainage Discharge: Discharge collected water at locations, rates, times, and with methods approved by Owner's Representative. Do not block access roads with piping or hoses used in drainage operations.
- B. Construction Pumps: Provide and maintain pumps to remove water from areas where it hinders or prevents the progress of work, or where it presents a hazard to part or all of the Work.
- C. Erosion Control: Ensure that site soils, including stockpiles, are not eroded and do not deposit sediment in locations outside the work area. Follow at a minimum the requirements of the construction SWPPP.

3.2 SITE INSPECTION

- A. Review site conditions and factors that affect construction procedures and construction facilities, including adjacent properties that may be affected by the work.

3.3 INSTALLATION

- A. Install facilities of neat and reasonably uniform appearance. The facilities must be structurally adequate for their required purpose.

3.4 MAINTENANCE

- A. Maintain facilities during the entire construction period.

3.5 REMOVAL

- A. Removal: Prior to final inspection, remove all temporary buildings, storage facilities, sanitary conveniences, and signs. Disconnect all temporary utilities with the exceptions noted above.
- B. Damages: Clean and repair damages caused by installation, use, or removal of the temporary facilities.
- C. Grading: Grade areas of the site affected by the installation, use, or removal of temporary facilities to required elevations and slopes.

- D. Existing Facilities: Restore existing facilities used for temporary purposes to their specified or original condition, or better, including but not limited to roadways and areas used for equipment and material lay-down.
- E. Safety Items: Clear the work area of unnecessary safety items and temporary controls. Remove or restore, as required, all temporary roads and parking areas.
- F. Roadways and Improved Areas: Improve and maintain site and facility roadways as-needed for construction traffic and in a manner approved by the Owner. Repair to original condition or better.

END OF SECTION

C
SECTION 02 21 00
SURVEYS

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. General Requirements
- B. Submittals
- C. Project Record Documents

1.2 GENERAL REQUIREMENTS

- A. Coordinate System: Use State Plane Coordinate System (SPCS), Texas South Central Zone, North American Datum, 1983 (NAD 83) unless otherwise noted.
 - 1. Units: coordinates are expressed in units of U.S. Survey Feet (sFT)
 - 2. Called Coordinates: most called coordinate values are shown truncated to 1,000-ft units; i.e. E_ 7,100.00 in lieu of E 2,187,100.00, etc.
- B. Vertical Datum: Use North American Vertical Datum, 1988 (NAVD 88). Elevations are expressed in units of feet
- C. Surveying: Provide all surveying work that is required to lay out the facilities to the lines and grades shown on the Drawings at no additional contract cost. Provide all surveying work during construction necessary for the CQA organization.
- D. Registration: Perform all survey work of final grades under the direct supervision of a Registered Professional Land Surveyor currently registered in the State of Texas.
- E. Errors and Inconsistencies: Take immediate steps to correct errors or inconsistencies in the lines and grades of the work in order to conform with the control points shown on the Drawings.
- F. Accuracy: Horizontal accuracy must be Root-Mean-Square Error (RMSE) less than 0.05 feet. Vertical accuracy must be RMSE less than 0.05 feet. The Contractor is responsible for the accuracy of the control points of the work including immediate correction if necessary.
- G. Inspections: Provide assistance as necessary to Representative or the CQA Officer during inspections of the control points established by the Contractor.

1.3 SUBMITTALS

- A. Accuracy: Submit documentation verifying the accuracy of the survey work when requested by Representative.
- B. Certification: Submit certificates signed by the Surveyor stating that the elevations and locations of the constructed features are in conformance, or non-conformance, with the Drawings and the Specifications. Submit this certification to Representative at the completion of each phase of work requiring Field Engineering and Surveying

1.4 PROJECT RECORD DOCUMENTS

- A. Survey Logs: Maintain a complete, accurate log of all survey work as it progresses at the Work site.
- B. As-Built Survey: Provide a survey that documents the final grades and elevations at the control point locations specified on the design drawings.
- C. Submittal of Logs: Submit a legible copy of all survey record documents to Representative when requested and upon completion of the Work.

2. EXECUTION

2.1 INSPECTION

- A. Verification of Control Points: Verify the locations of site reference and survey control markers prior to starting the Work. Promptly notify Representative of any discrepancies.

2.2 SURVEY REFERENCE MARKERS

- A. Marker Preservation: Protect site reference and survey control markers prior to starting the Work. Preserve permanent reference markers during construction. Do not adjust, move, or relocate site reference markers without prior written approval of Representative.
- B. Marker Damage: Notify Representative immediately of the loss, damage, or destruction of any reference marker, or relocation required because of changes in grades or other reasons. Replace disturbed survey control markers with markers of identical quality and quantity, as approved by Representative, based on the initial survey control at no additional Contract cost.
- C. Control Loop Closure: The vertical error for closure of control monuments and temporary bench marks set for construction shall meet the standards specified in Texas' Board of Land Surveying Professional and Technical Standards.

2.3 SURVEY RECORDS

- A. Material Surfaces: At a minimum, survey the Control Points shown on the drawings and additional locations as follows:
 - 1. along each interior and perimeter slope break line at horizontal intervals not greater than 25 feet;
 - 2. at each P.C., P.I. and P.T.;
 - 3. at each V.P.C., V.P.I., and V.P.T.; and
 - 4. at each material boundary.
- B. Follow the above survey requirements of each of the following material finish surfaces that are part of the Work:
 - 1. Compacted Subgrade
 - 2. Compacted Waste Fill
 - 3. Compacted Soil Fill

4. Topsoil
 5. Riprap
 6. Roadbase
 7. Concrete
- C. Material Boundaries: Survey material boundaries at intervals not greater than 25 feet along the boundaries and at the corners of each of the following:
1. Culvert Inlet and Outlet Geotextile;
 2. Geocomposite Drainage Net
 3. Flexible Membrane Liner
 4. Inlet and Outlet Geotextile
 5. Landfill Waste Demarcation Netting, if elected by the Owner; and
 6. Site Seeding.
- D. Survey sufficient additional points to accurately record the actual constructed location of all structures (i.e., an As-Built survey). This includes, but is not limited to: control points, pipe inverts, ditch inverts, break points, and riprap.

END OF SECTION

SECTION 02 41 00 SELECTIVE DEMOLITION

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. General Requirements
- B. Submittals
- C. Project Record Documents

1.2 GENERAL REQUIREMENTS

- A. Demolition and removal of a portion of the existing concrete push wall necessary for stormwater drainage from the FAL final cover system as shown on the drawings.
- B. Other selective demolition necessary for the Work.

1.3 SUBMITTALS

- A. Submit description of demolition equipment, personnel, materials, means, and methods.
- B. Schedule: Submit a schedule of demolition activities including sequence of each demolition and removal work task, with starting and ending dates for each activity;
- C. 10 Day Submittal: 10 Days prior to beginning demolition work, submit 10 day asbestos NESHAP notification to the Texas Department of State Health Services and provide proof of notification to Owner.
- D. Buried Facilities: Identify and accurately locate capped utilities and other subsurface structural, electrical, or mechanical conditions and subsurface obstructions.
- A. Complete Data: All record information is to be shown on the final as-built drawing prepared by the Contractor.

1.4 PROJECT RECORD DOCUMENTS

- A. Survey Logs: Maintain a complete, accurate log of all survey work as it progresses at the Work site.
- B. As-Built Survey: Provide a survey that documents the final grades and elevations at the control point locations specified on the design drawings.
- C. Submittal of Logs: Submit a legible copy of all survey record documents to OWNER'S REPRESENTATIVE when requested and upon completion of the Work.

2. PRODUCTS

Not used.

3. EXECUTION

3.1 GENERAL REQUIREMENTS

- A. Temporary Stormwater Controls: Place, maintain, and remove temporary stormwater controls to prevent stormwater run-on into, and stormwater run-off from, the demolition work area.
- B. Protect Existing Facilities to Remain: Protect existing facilities, Work in progress, and completed Work during selective demolition.
- C. Contain Demolition Debris: Separate by waste class and contain demolition debris and related residuals. Place properly sorted demolition debris and related residuals in waste containers designated by the Owner for that waste class for transport to off-site disposal or recycling.
- D. Site Access: Maintain access via existing access roads throughout the Work.
- E. Dust Control: Provide all necessary hoses, equipment, and water connections to facilitate dust control in accordance with Section 01 50 00 and the requirements of the Contractor's HASP accepted by the Owner.
- F. Submit 10 Day Notification to Texas Department of State Health Services.

3.2 DEMOLITION

- A. Demolish Concrete Push Wall: Sawcut, demolish and remove concrete push wall necessary for stormwater drainage from the FAL final cover system. Demolish 1 foot below existing grade on landfill exterior and above FAL bottom liner connection. Protect FAL bottom liner protection during all stages of the Work.

3.3 REMOVAL OF DEMOLITION DEBRIS

- A. Contain, load, and label demolition debris for subsequent transport and off-site disposal or recycling as directed by the Owner or the Owner's Representative.

END OF SECTION

SECTION 31 20 00 EARTHWORK AND GRADING

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. General Requirements
- B. Submittals
- C. Quality Assurance

1.2 GENERAL REQUIREMENTS

- A. Provide site preparation, excavation, fill, grading and related site earthwork needed for completion of the work.
- B. Locate and protect:
 - 1. Benchmarks, fences, parking areas, roads, structures, and all other identified surface features on the Drawings that are not indicated to be removed. Physical protection may include temporary bollards, soil berms, traffic controls and similar features as provided in the traffic plan.
 - 2. All utilities shall be identified and mapped by the Contractor during the pre-construction survey by remote sensing, physical confirmation, or other technique(s) to confirm the location of all utilities. Above-ground and below-ground utilities, unless they are shown to be removed on the Drawings, shall be protected from damage.
- C. Repair all facilities damaged at no additional cost to the Owner.

1.3 SUBMITTALS

- A. Submit description of site preparation, excavation, fill, grading, compaction, and other earthwork equipment, personnel, materials, means, and methods.
- B. Schedule: Submit a schedule of earthwork activities including sequence of each work task, with starting and ending dates for each activity;
- C. Buried Facilities: Identify and accurately locate capped utilities and other subsurface structural, electrical, or mechanical conditions and subsurface obstructions.
- D. Provide submittals in accordance with Section 01 33 00 sample data that demonstrates the material conforms to the Technical Specifications and Drawings. In addition to the material specifications in the Technical Specifications, prior to acceptance of the clean fill material by Owner, the Contractor shall provide Owner and Owner's Representative with analytical data documenting concentrations of 40 CFR 264, Appendix IX chemicals in addition to Total Petroleum Hydrocarbons (TPH) by method TX1005. Sample labels and analytical data must include the name of the proposed material, project, the supplier, the supplier's designation, and the location of the source.

- E. Borrow Source: Provide access to off-site borrow areas and stockpiles for collection of samples, inspection and audit to the Engineer throughout the use of the borrow source.

1.4 QUALITY ASSURANCE

- A. Employ skilled and experienced workers to perform earthwork.
- B. CQA Requirements: Achieve all CQA Plan acceptance criteria in addition to the requirements of this section. Implement all CQA requirements and provide the supporting documentation to the Owner's Representative.

2. PRODUCTS

2.1 PREQUALIFICATION

- A. All borrow materials must be approved by the Owner or designated Owner's Representative prior to procurement and delivery to the site.
- B. Analytical data for borrowed soil and other natural soil materials must be provided to the Owner's Representative for each borrow source used by the CONTRACTOR.

2.2 COMPACTED SOIL FILL

- A. Natural soil that is free of roots, rocks larger than one inch, clay clods larger than two inches, organic materials, salt, mineral or synthetic additives, and other substances, materials or features which may be deleterious to performance.
 1. Soil Type: Low-plasticity inorganic soil, type "CL" or "ML" in accordance with ASTM D-2487.
 2. Liquid Limit (LL) less than 40 (ASTM D-4318).
 3. Plasticity Index (PI): between 8 and 20 (ASTM D-4318).
 4. Fine Particle Content: At least 60% passing the No. 200 Sieve.

2.3 CLAY COVER

- A. Natural soil that is free of roots, rocks larger than one inch, clay clods larger than two inches, organic materials, salt, mineral or synthetic additives, and other substances, materials or features which may be deleterious to performance.
 1. Soil Type: Clay mineral, classified as type "CL", in accordance with ASTM D-2487.
 2. Plasticity Index (PI) greater than 15 and less than 30 when tested in accordance with ASTM D-4318.
 3. Liquid Limit: Less than 50, ASTM D-4318.
 4. Fine Particle Content: Between 60% and 85% passing the No. 200 sieve when tested in accordance with ASTM D-422

2.4 RIPRAP

- A. Provide riprap consisting of hard, durable rock that is dense, free from cracks, seams and other defects which would increase deterioration from handling and natural causes, and not highly susceptible to solutioning or weathering.
- B. Shape and Dimensions.
 - 1. Provide riprap in cubic form, rather than elongated (flat) shapes.
 - 2. Provide riprap with a minimum thickness of 12 inches unless otherwise shown on the drawings and a D50 size of 6 inches.
 - 3. No more than 25 percent may have a length greater than 2-1/2 times the width or thickness. No length shall exceed 3 times the width or thickness.
- C. Spalls, fragments and chips may not exceed 5 percent by weight of the riprap. The dimension and shape limitations do not apply to this portion of the riprap.
- D. Provide riprap with angular or subangular shape achieving ASTM C33 grading requirements for Size No. 1 Coarse Aggregate.

2.5 ROAD BASE

- E. Provide road base consisting of crushed stone that is dense, durable and hard material free of roots, clay, and other substances, materials or features which may be deleterious to performance.
- F. Provide road base conforming to TxDOT Specification 247.

2.6 TOPSOIL

- A. General: Provide a topsoil which is a fertile, friable, natural loam surface soil capable of initiating and sustaining vigorous plant growth, and free of any admixture of subsoil, clods of hard earth, plants or roots, sticks or other extraneous material which may inhibit plant growth. The source of the topsoil shall be from a well-drained off-site borrow source approved by the Owner's Representative.
- B. Particle Size Distribution: Dry weight basis in accordance with ASTM D-422.
 - 1. No. 4 Sieve: 95 to 100 percent passing.
 - 2. Sand Size (2.0 – 0.05 mm) = 10 to 70 percent.
 - 3. Silt Size (0.05 – 0.005 mm) = 0 to 40 percent.
 - 4. Clay Size (< 0.005 mm) = 20 to 50 percent.
- C. pH: 6.0 to 8.0 by ASTM D-4972 or similar.
- D. Organic Content: 2.5 to 10 percent, as determined by ignition loss with
- E. ASTM D-2974.
- F. Pests: Free of pests and pest larvae.

3. EXECUTION

3.1 GENERAL REQUIREMENTS

- A. Objective: Excavate materials to the lines, grades, and elevations as shown on the Drawings and indicated in the Technical Specifications, or as directed by Owner's Representative.
- B. The CONTRACTOR shall be prepared to manage groundwater regardless of the level encountered during construction and maintain the site workable and passable such that the quality of the finished Work is not compromised.
- C. Trench Safety Systems: Plan and manage work to avoid any Work in trenches if possible. If Work in trenches is necessary and authorized by the Owner's Representative, construct, install, maintain, and when complete, remove trench safety systems in accordance with a trench safety plan to be submitted and accepted by the Owner's Representative prior to use. Care shall be taken to prevent voids during the installation, use and removal of trench safety systems. Immediately fill voids with suitable material and compact.
- D. Drainage: During earthwork, maintain the surface grades to prevent ponding and to drain overland flow away from open excavations. When necessary, install temporary berms or drainage ditches to intercept or divert surface water, and prevent interference or delay of the work. Manage contact stormwater runoff from exposed landfilled waste.
- E. Pumping: Keep sufficient portable pumps readily available to remove water from excavations as may be needed to permit the Work to continue without impacting the Contract Schedule or Price.
- F. Stockpiling: If at the time of material delivery or waste grading it is not possible to place the material in the proper and final section of permanent construction, stockpile the material in approved areas for later use. Keep stockpiled materials separate from waste and free of other materials, protect the materials from loss, and comply with all sediment and erosion control requirements.
- G. Potentially Affected Material: Implement controls and procedures within the landfill, excavation earthwork areas, and haul routes to limit the potential for chemical migration outside of the landfill footprint.

3.2 GRADING OF LANDFILL WASTE

- A. Objective: Place waste materials at the locations and to the grades shown on the Drawings.
- B. Inspection of Subgrade: Do not place any waste material on natural subgrade or embankment, or previously placed waste until the subgrade or waste surface has been inspected and approved by the CQA Officer. Proof-roll natural subgrade and remove or treat any unstable soil subject to pumping or rutting.
- C. Spreading Waste: Spread waste in horizontal lifts over the entire fill area such that the compacted thickness of each layer is not greater than six inches and as specified in the CQA Plan.

- D. Decontamination: Decontaminate earthmoving equipment after handling or tracking over waste material and before handling clean fill or other uncontaminated materials.

3.3 PLACEMENT OF SOIL FILL AND SOIL COVER MATERIAL

- A. Objective: Place soil fill at the locations and to the grades shown on the Drawings.
- B. Inspection of Subgrade: Do not place any fill on natural subgrade, embankment, or previously placed fill until the surface has been inspected and approved by CQA Officer. Proof-roll natural subgrade and remove or treat any unstable soil subject to pumping or rutting with an amendment or compacted soil fill as approved by the Owner's Representative.
- C. Removing Debris: During the placement and spreading of fill material, remove all roots, other organic matter, rubble, stone, rock, or debris fragments, or otherwise deleterious materials that are uncovered in the fill material. Decayable organic material larger than two inches in greatest dimension shall not be utilized in relocated fill; materials so removed shall be disposed off-site in a licensed and properly permitted land disposal facility, as designated by the Owner's Representative.
- D. Spreading Fill: After placement, spread material in horizontal lifts over the entire fill area such that the thickness of each layer is not greater than six inches when compacted, in accordance with the requirements of the CQA Plan.

3.4 PLACEMENT OF RIPRAP

- A. Preparation: Place geotextile filter fabric to the thickness specified on the subgrade. Place riprap after the underlying surface has been approved by the Owner's Representative.
- B. Location: Place riprap on deployed, prepared geotextile as shown on the Drawings.
- C. Geotextile Protection: Do not use any equipment directly on geotextile, or other geosynthetics. Riprap shall be placed, not dumped or dropped from height. Protect geotextile during placement of riprap by minimizing the distance and velocity with which riprap is dropped from spreading equipment. Do not operate any equipment in contact with geotextile. All damaged geotextile shall be removed and replaced by CONTRACTOR at no additional cost to the Owner.

3.5 PLACEMENT OF TOPSOIL

- A. Remove roots, weeds, rocks, and other deleterious material greater than two inches in diameter while spreading.
- B. Verify that the finished surface is free of mounds and low areas and that it is ready to receive the seed.
- C. Prior to placing topsoil, scarify the subgrade to a minimum depth of 1-inch until it is loose and uncompacted to provide bonding of topsoil layer to subgrade.
- D. Place top elevation of topsoil at the design finish grade elevation shown on the Drawings.
- E. Place topsoil to a depth of six inches loose thickness, and only during dry weather.

- F. Do not spread topsoil when it is excessively wet or dry.
- G. Do not compact the topsoil layer. Restrict equipment and personnel travelling on the placed topsoil in lanes such that ruts are developed. All traffic over placed topsoil shall be minimized.
- H. To eliminate uneven or low areas, fine grade placed topsoil to within a maximum variance of 1 inch of final grade.

3.6 MOISTURE CONTROL

- A. Acceptable Moisture Content: Adjust the moisture content of each loose soil lift as specified in the table below.
- B. Adjustment:
 - 1. If the moisture content is too high, adjust to within the specified limits by spreading the material and allowing it to dry. Assist the drying process by disking or harrowing as necessary.
 - 2. When the material is too dry, sprinkle each layer uniformly with water. Work the moisture into the soil by disking, harrowing or other approved method.
 - 3. Water used for moisture conditioning shall be potable and the source approved by the Owner's Representative.
- C. Cover: Maintain all soil lifts within specified moisture content limits specified in the CQA plan until covered with subsequent lifts.

3.7 COMPACTION

- A. Waste, Fill, and Cover Materials:
 - 1. Compact as specified in Table-1 and on the Drawings.
 - 2. Tamping rollers must "walk-out" of each compacted lift.
 - 3. Waste materials must be substantially unyielding as the basis of acceptance for the next lift of waste or soil, as determined by the Owner's Representative. Substantially unyielding may be determined by no ruts created by a fully-loaded dump truck or similar heavy-load construction equipment.
 - 4. All roller pass lanes shall overlap and shall be applied equally until uniform compaction meeting the requirements is achieved.
- B. Topsoil: Topsoil shall not be compacted. Traffic across the topsoil layer shall be limited to that necessary to spread and final grade the layer.

3.8 MATERIAL DISPOSAL

- A. The CONTRACTOR shall plan and execute the project in a manner and sequence that assures no resulting excess fill material is required. The contours shown on the Drawings shall be achieved for the final grades within the designated floodplain area at all locations. The area outside the designated floodplain area shall be contoured as indicated on the

Drawings, but must not necessarily achieve the final contours presented. These contours may be adjusted in the field, as approved by the Owner’s Representative, to be similar as to slope, grade and configuration, but achieve a lower or higher elevation as may be necessary to balance the cut and fill requirements at the site.

- B. All deleterious materials removed from the soil fill materials during placement shall be disposed either within the Landfill or disposed off-site as directed by the Owner’s Representative. Off-site disposal will be at a licensed and properly permitted facility pre-approved by the Owner’s Representative.
- C. All deleterious materials removed from the waste fill materials during placement shall be disposed off-site at a licensed and properly permitted facility pre-approved by the Owner’s Representative.

3.9 ACCEPTANCE TESTING AND REWORK

- A. Moisture/density tests shall be performed by the CONTRACTOR in accordance with the CQA Plan. Tests shall be conducted for each lift of fill completed and compacted.
- B. If the material fails to meet the placement or compaction specification, the materials shall be moisture conditioned and reworked as necessary to meet the specifications. The compaction method, equipment or intensity shall be adjusted as necessary to assure future meeting of the specifications. Materials shall continue to be re-worked, or removed and replaced until the specifications are met.
- C. The Contractor shall not proceed to the next layer until the previous layer has been tested and approved by the Owner’s Representative.

TABLE 1

Required Earthwork Moisture & Density

Earthwork Classification	Allowable Moisture Range	Minimum Dry Density
Waste	Moisture and Minimum Dry Density not specified. Compact waste in accordance with this Section and the notes on the drawings.	
Compacted Soil Fill	Within + 3% or - 1% of optimum per ASTM D-698 (standard proctor)	95% of maximum dry density determined by ASTM D 698 (standard proctor)
Topsoil	Not Specified	Not specified. C compaction. Inherent in placement and grading.
Subgrade	Moisture and Minimum Dry Density not specified. Compact waste in accordance with this Section and the notes on the drawings.	

Note 1: CONTRACTOR will select potential borrow source(s) and obtain a minimum of three independent pre-qualification samples that are representative of the materials potentially to be provided for materials testing. If imported materials are obtained from a natural quarry rather than processed materials, CONTRACTOR shall arrange a site inspection for the ENGINEER before acceptance of any materials by the Owner’s Representative. CONTRACTOR shall submit each sample to a construction materials testing firm approved by the Owner for Standard Proctor testing according to ASTM D-698 with at least two tests per sample conducted wet of optimum and two tests per sample conducted dry of optimum. Owner’s Representative will review and approve the borrow source and, if approved, specify an allowable moisture range and minimum dry density standard.

END OF SECTION

SECTION 32 05 19 GEOSYNTHETICS

1. PART 1 – GENERAL

1.1 SECTION INCLUDES

- A. General Requirements
- B. Referenced Standards
- C. Submittals
- D. Quality Assurance and Quality Control
- E. Product Delivery, Handling, and Storage

1.2 GENERAL REQUIREMENTS

- A. Provide materials, labor, tools, equipment, and appurtenances necessary to manufacture, deliver, and install geosynthetics as shown on the Drawings and as specified in this section.

1.3 REFERENCED STANDARDS

- D 792 Specific Gravity (Relative Density) and Density of Plastics by Displacement
- D 1004 Test Method for Initial Tear Resistance of Plastics Film and Sheeting
- D 1204, Standard Test Method for Linear Dimensional Changes of Non Rigid Thermoplastic Sheeting or Film at Elevated Temperature.
- D 1238 Test Method for Flow Rates of Thermoplastics by Extrusion Plastometer
- D 1505 Test Method for Density of Plastics by the Density-Gradient Technique
- D 1603 Test Method for Carbon Black in Olefin Plastics
- D 3895, Test Method for Oxidative Induction Time of Polyolefins by Thermal Analysis.
- D 4218 Test Method for Determination of Carbon Black Content in Polyethylene Compounds by the Muffle-Furnace Technique
- D4437 – 08, Standard Practice for Non-destructive Testing (NDT) for Determining the Integrity of Seams Used in Joining Flexible Polymeric Sheet FMLs.
- D 4833 Test Method for Index Puncture Resistance of Geotextiles FMLs and Related Products
- D 5199 Test Method for Measuring Nominal Thickness of Geotextiles and FMLs
- D5820-95, Pressurized Air Channel Test for Dual Seamed FMLs.
- D 5323 Practice for Determination of 2% Secant Modulus for Polyethylene FMLs
- D 5397, Standard Test Method for Evaluation of Stress Crack. Resistance of Polyolefins using Notched Constant Tensile Load Test.
- D 5596 Test Method for Microscopic Evaluation of the Dispersion of Carbon Black in Polyolefin Geosynthetics
- D 5617 Test Method for Multi-Axial Tension Test for Geosynthetics

- D 5641, Standard Practice for FML Seam Evaluation by Vacuum Chamber.
- D 5721 Practice for Air-Oven Aging of Polyolefin FMLs
- D 5885 Test method for Oxidative Induction Time of Polyolefin Geosynthetics by High Pressure Differential Scanning Calorimetry
- D 5994 Test Method for Measuring the Core Thickness of Textured FMLs
- D 6370 Standard Test Method for Rubber-Compositional Analysis by Thermogravimetry (TGA)
- D 6392-08, Integrity of Non-reinforced FML Seams Produced Using Thermo-Fusion Methods.
- D 6693 Test Method for Determining Tensile Properties of Nonreinforced Polyethylene and Nonreinforced Flexible Polypropylene FMLs
- D 7238 Test Method for Effect of Exposure of Unreinforced Polyolefin FML Using Fluorescent Condensation Device
- D 7466 Test Method for Measuring the Asperity Height of Textured FMLs
- D 8117 Standard Test Method for Oxidative Induction Time of Polyolefin Geosynthetics by Differential Scanning Calorimetry
- U. S. Environmental Protection Agency Technical Guidance Document "Quality Control Assurance and Quality Control for Waste Containment Facilities," EPA/600/R-93/182, September 1993

1.4 SUBMITTALS

1.4.1 SUBMITTALS PRIOR TO ORDERING FML

- A. Furnish the following printed product data to the Owner. Obtain the Owner's approval of the data prior to purchasing the FML from the FML Manufacturer.
 1. Documentation of manufacturer's qualifications as specified in this Section.
 2. Manufacturer's Quality Control program manual or descriptive documentation.
 3. A material properties sheet, including at a minimum all properties specified in GRI GM 13 or GRI GM 17, including test methods used.
 4. Sample of the material.
 5. Documentation of Installer's qualifications, as specified below and in this Section.
 - i. Submit a list of at least ten completed facilities. For each installation, provide: name and type of facility; its location; the date of installation; name and telephone number of contact at the facility; type and thickness of FML and; surface area of the installed FML.
 - ii. Submit resumes or qualifications of the Installation Supervisor, Master Seamer and IAGI Certified Welding Technicians (CWTs) to be assigned to this project.
 - iii. Quality Control Program.
 6. Example Material Warranty and Liner Installation Warranty.
- B. Owner Approval: Obtain the Owner's approval of all submittals prior to ordering any FML.

1.4.2 SUBMITTALS REQUIRING OWNER APPROVAL PRIOR TO SHIPMENT BY THE FML MANUFACTURER

- A. Submit copies of shop drawings for engineer's approval within a reasonable time so as not to delay the start of FML installation. Shop drawings shall show the proposed panel layout identifying seams and details. Seams should generally follow the direction of the slope. Butt seams or roll-end seams should not occur on a slope unless approved by the Owner's Representative. Butt seams on a slope, if allowed, should be staggered.
- B. Placement of FML should not be allowed to proceed until Owner's Representative has received and approved the shop drawings.
- C. FML Manufacturer's Certificate
 - 1. Prior to shipment from the FML Manufacturer's plant submit FML Manufacturer's certificates of compliance with the requirements of standards and testing methods specified in this Section.
 - 2. Certify, by affidavit to the Owner and Installer jointly, that the FML material the FML Manufacturer is furnishing will meet each FML material requirement in this section.
 - 3. Obtain the Owner's approval of the FML Manufacturer's affidavit prior to shipping the FML from the FML Manufacturer's plant.
- D. Obtain the Owner's approval of all submittals prior to shipping any FML.

1.4.3 SUBMITTALS REQUIRING OWNER APPROVAL PRIOR TO ACCEPTANCE OF THE WORK

- A. Submittal Data: As it becomes available and upon completion of installation, submit the following to the Owner:
 - 1. Manufacturer's warranty.
 - 2. FML installation warranty.
 - 3. Daily written acceptance of subgrade surface.
 - 4. Low-temperature seaming procedures if applicable.
 - 5. Prequalification test seam samples.
 - 6. Field seam non-destructive test results.
 - 7. Field seam destructive test results.
 - 8. Daily field installation reports.
 - 9. Installation record drawing.
- B. Owner Approval: Obtain the Owner's approval of all submittals prior to submitting application for final payment.

1.5 QUALITY ASSURANCE AND QUALITY CONTROL

- A. Achieve all quality assurance and quality control acceptance criteria specified in the Technical Specifications.

1.5.1 QUALIFICATIONS

- A. Geosynthetics Installation Contractor Qualifications:
- B. Manufacturer's Qualifications: The manufacturer of FML of the type specified or similar product shall have at least five year's experience in the manufacture of such FML. In addition, the FML manufacturer shall have manufactured at least 1,000,000m² (10,000,000ft²) of the specified type of FML or similar product during the last five years.
- C. Installer's Qualifications
 - 1. The FML Installer shall be the Manufacturer, approved Manufacturer's Installer or a contractor approved by the Owner's Representative to install the FML.
 - 2. The FML Installer shall have at least three year's experience in the installation of the specified FML or similar. The FML Installer shall have installed at least 10 projects involving a total of 500,000 m²(5,000,000 ft²) of the specified type of FML or similar during the last three years.
 - 3. Installation shall be performed under the direction of a field Installation Supervisor who shall be responsible throughout the FML installation, for FML panel layout, seaming, patching, testing, repairs, and all other activities of the FML Installer.
 - 4. The Field Installation Supervisor shall have installed or supervised the installation and seaming of a minimum of 10 projects involving a total of 500,000 m² (5,000,000 ft²) of FML of the type specified or similar product.
 - 5. Seaming shall be performed under the direction of a Master Seamer (who may also be the Field Installation Supervisor or Crew Foreman) who has seamed a minimum of 300,000 m² (3,000,000 ft²) of FML of the type specified or similar product, using the same type of seaming apparatus to be used in the current project. The Field Installation Supervisor and/or Master Seamer shall be present whenever seaming is performed. It is recommended that the FML welders be a current Certified Welding Technician (CWT) as issued by the International Association of Geosynthetic Installers.
 - 6. All seaming, patching, other welding operations, and testing shall be performed by qualified technicians employed by the FML Installer.

1.5.2 CONSTRUCTION QUALITY ASSURANCE

- A. Seam Testing: Test the entire length of each seam of each FML prior to covering the FML by air pressure testing or, if that method is not practical and when approved by the Owner, by vacuum testing.
- B. Surface Testing: Test the entire area of each FML panel prior to covering the FML by visual inspection and, when necessary or ordered by the CQA Officer, by vacuum testing.
- C. Destructive Testing: Assist the CQA Officer in obtaining a sample of installed FML for destructive testing described in this section. Repair FML at sample locations.
- D. Repair Testing: Test all repaired panel surface and seams, plus adjacent panel surface and seams within 10 feet of the repair and the area on which welding equipment and personnel

operated to accomplish the repair, regardless of whether the panels and seams in the area were previously tested and accepted prior to the repair.

E. CQA Plan Acceptance Criteria: Achieve all acceptance criteria described in this section.

1.6 PRODUCT DELIVERY, HANDLING, AND STORAGE

A. Comply with the FML Manufacturer printed requirements unless otherwise specified.

B. FML Manufacturer's Delivery

1. Initiate shipment of FML from the FML Manufacturer's factory only after the Owner has approved the required submittals.
2. Package and ship rolls with a waterproof, tightly fitting plastic covering resistant to ultraviolet degradation so that no damage is caused during loading, shipping, and unloading.
3. Off-loading and storage of the FML is the responsibility of the Geosynthetics Installation Contractor and must be done in the presence of the CQA Officer.
4. Replace any damaged or unacceptable material at no additional Contract cost.
5. Separate damaged rolls from undamaged rolls until the Owner determines proper disposition.
6. The CQA Officer will be the final authority on the determination of damage.

C. Geosynthetics Installation Contractor Inspection on Receipt

1. Inspect the FML rolls prior to deployment at the job site.
2. Immediately notify the CQA Officer of any damage and mark rolls showing damage from transit and return to the FML Manufacturer for replacement at no additional Contract cost.

D. Geosynthetics Installation Contractor Storage and Handling

1. Store in accordance with the FML Manufacturer's printed instructions. Handle FML in a manner that prevents damage to the FML, other site facilities, and other parts of the Work.
2. Protect rolls from mud, dirt, puncture, cutting, or other damaging or deleterious conditions. Store in areas not subject to flooding or ponded water.
3. Preserve integrity and readability of roll labels. Maintain and repair, if damaged, the water resistant plastic wrap applied at the factory at no additional Contract cost.
4. Repair or replace damaged FML at no additional Contract cost.

2. PRODUCTS

2.1 FLEXIBLE MEMBRANE LINER

A. General Requirements

1. FML: Textured 60-mil (nominal) thickness high-density polyethylene (HDPE) FML.
 2. Quality: Provide FML with surface that has a uniform textured appearance and is free of striations, pinholes, bubbles, blisters, blemishes, undispersed raw materials, or contamination by foreign matter.
- B. Applications: As shown on the Drawings.
- C. Components: Manufacture FML of new, first-quality resin produced in the U.S.A. No reclaimed resin may be used. Add carbon black to the black component resin for UV resistance. Use no more than 3% by weight additives, fillers or extenders in the resin unless otherwise approved by the Owner.
- D. Physical Properties: In accordance with the minimum average roll value (MARV) criteria shown in Table 31 05 19.16-B1.
- E. Factory Product: Supply FML in rolls, covered and labeled with information including but not limited to:
1. Material type thickness, length and width.
 2. Batch and roll numbers.
 3. Manufacturer.
 4. Plant Location.
 5. Date of manufacture.
- F. Extrusion Joining Resin:
1. Source Material: Use black HDPE resin compatible with the same resin used for sheet manufacture for extrusion joining of sheets and of sheet to pipe.
 2. Physical Properties: Same as those of the resin used in the manufacture of the HDPE liner.

2.2 GEOCOMPOSITE DRAINAGE NET

- G. Types: Provide composite synthetic drainage nets (CSDN) for drainage of water that infiltrates below top soil cover.
- H. Manufacturer: AgruAmerica, Inc. (AgruAmerica), Georgetown, South Carolina or other manufacturer approved by the Owner.
- I. Environmental Stability: Provide synthetic drainage nets inert to biological degradation and acids, alkalis, brine, oil field chemicals, crude oil, drill cuttings, tank bottoms, and other oil and gas exploration and production wastes.
- J. Principal Properties: Conform to the minimum average roll values (MARV) listed in corresponding tables in below:

GEONET COMPONENT (1)					
Property	Test Method	Frequency	Minimum Average Values		
Thickness, mil (mm)	ASTM D5199	50,000 sf	200 (5.1)		
Peak Tensile Strength MD, lbs./ in. (N/mm)	ASTM D5035/7179	50,000 sf	45 (7.9)		
Density, g/cm ³	ASTM D792, Method B	50,000 sf	0.94		
Carbon Black Content (%)	ASTM D4218	50,000 sf	2 - 3		
Transmissivity(2), m ² /sec. (gal/min/ft)	ASTM D4716	500,000 sf	2 x 10 ⁻³ (9.6)		
GEOTEXTILE COMPONENT (1)					
Property	Test Method	Frequency	Minimum Average Values		
Mass per Unit Area, oz./sq. yd. (g/m ²)	ASTM D5261	100,000 sf	6.0 (203)	8.0 (271)	10.0 (339)
Grab Tensile Strength, lbs.(N)	ASTM D4632	100,000 sf	170 (757)	220 (979)	270 (1200)
Grab Elongation, %	ASTM D4632	100,000 sf	50	50	50
Trapezoidal Tear, lbs. (N)	ASTM D4533	100,000 sf	65 (289)	95 (423)	105 (467)
CBR Puncture , lbs (N)	ASTM D6241	500,000 sf	435 (1935)	600 (2670)	725 (3230)
Permittivity(3), sec.-1	ASTM D4491	500,000 sf	1.5	1.3	1.1
Water Flow, (3) gpm./ ft ² (l/min/m ²)	ASTM D4491	500,000 sf	110 (4479)	95 (3895)	80 (3280)
AOS, U.S. Sieve max (mm)(3)	ASTM D4751	500,000 sf	70 (0.212)	80 (0.180)	100 (0.150)
GEOCOMPOSITE					
Property	Test Method	Frequency	Minimum Average Values		
Ply Adhesion, lbs./ in. (g/cm)	ASTM D7005	50,000 sf	1 (178)	1 (178)	1 (178)
Transmissivity (2), m ² /sec. (gal/min/ft)	ASTM D4716	500,000 sf - Double	1 x 10 ⁻⁴ (0.5)	1 x 10 ⁻⁴ (0.5)	9 x 10 ⁻⁵ (0.4)
	ASTM D4716	500,000 sf - Single	1 x 10 ⁻³ (4.8)	1 x 10 ⁻³ (4.8)	9 x 10 ⁻⁴ (4.3)

SUPPLY INFORMATION			
Standard Roll Length(4) at Fabric Weight	6-oz	8-oz	10-oz
Double Sided	230	200	190
Single Sided	250	250	240

Notes:

- (1) Component properties are prior to lamination
- (2) Geonet & Geocomposite . Transmissivity at 21°C, gradient of 0.1, load of 10,000 psf, seat time 15 min. between steel plates.
- (3) At time of manufacture. Handling may change these properties.
- (4) All roll widths are 14.5 feet. All roll lengths and widths have a tolerance of ±1%
- (5) UV Resistance after 500 hours for the geotextile component exhibits 70% strength retained via ASTM D4355

2.3 GEOTEXTILE

A. General

1. Type: Needlepunched non-woven polypropylene geotextile.
2. Manufacturer: US Fabrics, Inc, Solmax, or approved equal.

B. Principal Properties: Conform to the minimum average roll values (MARV) listed in the following table for the nominal unit weights noted.

C. Geotextile: Propex® "GEOTEX® 601" or approved equal.

Property	Test Method	MARV
Unit Weight	ASTM D-5261	6.0 oz/sq. yd (nominal)
Grab Strength	ASTM D-4632	160 lbs.
Elongation	ASTM D-4632	50%
CBR Puncture Strength	ASTM D-4833	410 lbs.
Trapezoidal Tear Strength	ASTM D-4533	60 lbs.
Apparent Opening Size	ASTM D-4751	#70 U.S. Standard Sieve
Permittivity	ASTM D-4491	1.50 / sec

UV Resistance	ASTM D-4355	≥70% Original Strength after 500 hours.
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3. EXECUTION

3.1 SUBGRADE PREPARATION

- A. The subgrade shall be prepared in accordance with the project specifications. The FML subgrade shall be uniform and free of sharp or angular objects that may damage the FML prior to installation of the FML.
- B. The FML Installer and Owner's Representative shall inspect the surface to be covered with the FML on each day's operations prior to placement of FML to verify suitability.
- C. The FML Installer and Owner's Representative shall provide daily written acceptance for the surface to be covered by the FML in that day's operations. The surface shall be maintained in a manner, during FML installation, to ensure subgrade suitability.
- D. All subgrade damaged by construction equipment and deemed unsuitable for FML deployment shall be repaired prior to placement of the FML. All repairs shall be approved by the Owner's Representative and the FML Installer.

3.2 FML PLACEMENT

- A. No FML shall be deployed until the applicable certifications and quality control certificates listed in this Section are submitted to and approved by the Owner's Representative within the timeframe specified in the contract documents. If the material does not meet project specifications it shall be removed from the work area.
- B. The FML shall be installed to the limits shown on the project drawings and essentially as shown on approved panel layout drawings.
- C. No FML material shall be unrolled and deployed if the material temperatures are lower than 0 degrees C (32 degrees F) unless otherwise approved by the Owner's Representative. The specified minimum temperature for material deployment may be adjusted by the Owner's Representative. Typically, only the quantity of FML that will be anchored and seamed together in one day should be deployed.
- D. No vehicular traffic shall travel on the FML other than an approved low ground pressure vehicle or equivalent.
- E. Sandbags or equivalent ballast shall be used as necessary to temporarily hold the FML material in position under the foreseeable and reasonably expected wind conditions. Sand bag material shall be sufficiently close-knit to prevent soil fines from working through the bags and discharging on the FML.
- F. FML placement shall not be done if moisture prevents proper subgrade preparation, panel placement, or panel seaming.

- G. Damaged panels or portions of the damaged panels which have been rejected shall be marked and their removal from the work area recorded.
- H. The FML shall not be allowed to "bridge over" voids or low areas in the subgrade. The FML shall rest in intimate contact with the subgrade.
- I. Wrinkles caused by panel placement or thermal expansion should be minimized in accordance with this Section.
- J. Considerations on site geometry: In general, seams shall be oriented parallel to the line of the maximum slope. In corners and odd shaped geometric locations, the total length of field seams shall be minimized. Seams shall not be located at low points in the subgrade unless geometry requires seaming at such locations and if approved by the Owner's Representative.
- K. Overlapping: The panels shall be overlapped prior to seaming to whatever extent is necessary to affect a good weld and allow for proper testing. In no case shall this overlap be less than 75 mm (3 in.).

3.3 SEAMING PROCEDURES

- A. No FML material shall be seamed when liner temperatures are less than 0 degrees C (32 degrees F) unless the following conditions are complied with:
 - a. Seaming of the FML at material temperatures below 0 degrees C (32 degrees F) is allowed if the FML Installer can demonstrate to the Owner's Representative, using pre-qualification test seams, that field seams comply with the project specifications, the safety of the crew is ensured, and FML material can be fabricated at subfreezing temperatures.
 - b. The FML Installer shall submit to the Owner's Representative for approval, detailed procedures for seaming at low temperatures, possibly including the following:
 - i. Preheating of the FML.
 - ii. The provision of a tent or other device if necessary to prevent heat losses during seaming and rapid heat losses subsequent to seaming.
 - iii. Number of test welds to determine appropriate seaming parameters.
- B. No FML material shall be seamed when the sheet temperature is above 75 degrees C (170 degrees F) as measured by an infrared thermometer or surface thermocouple unless otherwise approved by the Owner's Representative. This approval will be based on recommendations by the manufacturer and on a field demonstration by the FML Installer using prequalification test seams to demonstrate that seams comply with the specification.
- C. Seaming shall primarily be performed using automatic fusion welding equipment and techniques. Extrusion welding shall be used where fusion welding is not possible such as at pipe penetrations, patches, repairs and short (less than a roll width) runs of seams.
- D. Fishmouths or excessive wrinkles at the seam overlaps shall be minimized and when necessary cut along the ridge of the wrinkles back into the panel so as to effect a flat

overlap. The cut shall be terminated with a keyhole cut (nominal 10 mm (1/2 in) diameter hole) so as to minimize crack/tear propagation. The overlay shall subsequently be seamed. The key hole cut shall be patched with an oval or round patch of the same base FML material extending a minimum of 150 mm (6 in.) beyond the cut in all directions.

END OF SECTION



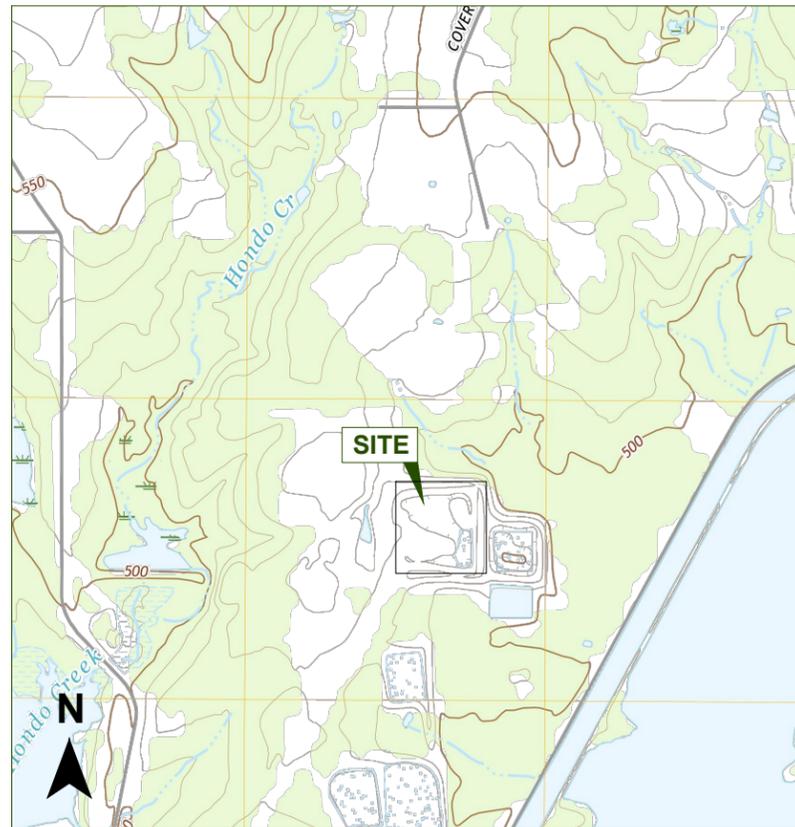
ATTACHMENT 2

PRELIMINARY PLANS FOR FAL
CLOSURE



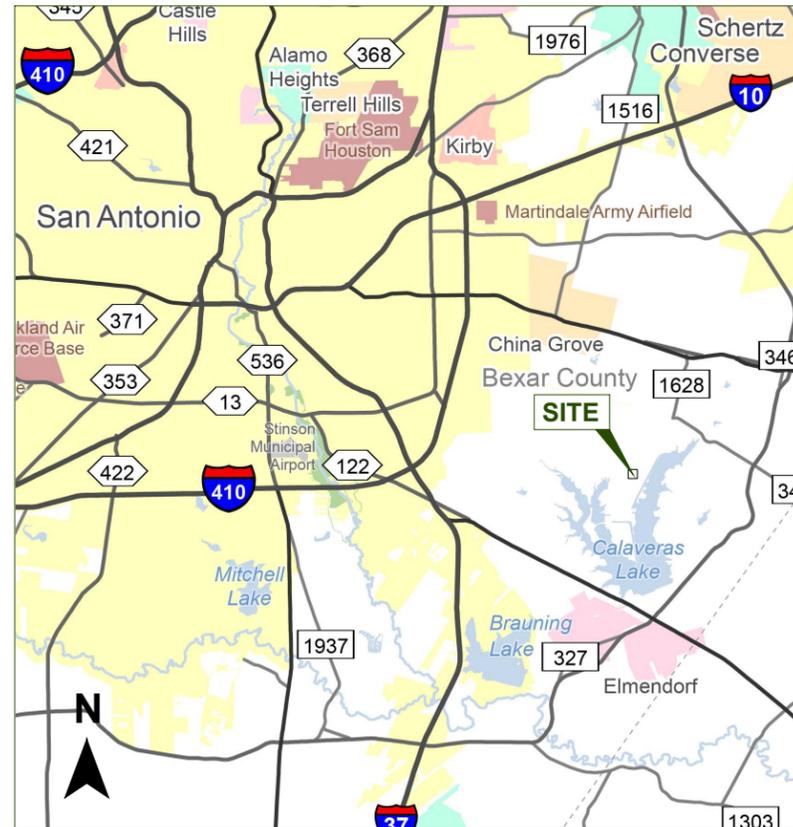
DRAWINGS FOR CONSTRUCTION OF THE FLY ASH LANDFILL (FAL) FINAL COVER

J.K. SPRUCE POWER PLANT BEXAR COUNTY, TX DECEMBER 2025



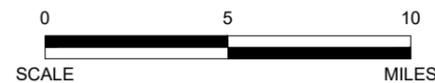
SOURCE: USGS 7.5-MINUTE QUADRANGLE, ELMENDORF, TX, 2022.

VICINITY MAP



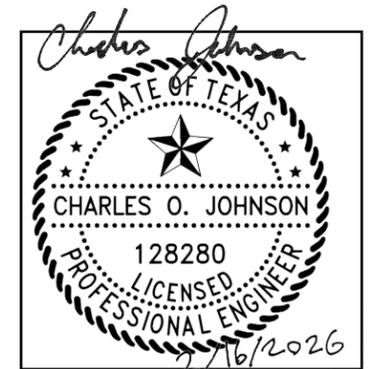
SOURCE: TXDOT, SAN ANTONIO DISTRICT HIGHWAY MAP, 2024.

SITE LOCATION MAP



INDEX OF DRAWINGS

Sheet Number	Sheet Title
1	COVER SHEET
2	BASE MAP
3	SITE PREPARATION PLAN
4	WASTE GRADING PLAN
5	FINAL GRADING PLAN
6	SECTIONS
7	DETAILS (1 OF 3)
8	DETAILS (2 OF 3)
9	DETAILS (3 OF 3)
10	CONTROL POINT SUMMARY TABLE



TEXAS REGISTERED
ENGINEERING FIRM F-2393

Rev.	Date	Description	By	Chk
0	01/20/2026	DRAFT FOR REVIEW	COJ	



FILE PATH: C:\Users\carlie.johnson\Documents\OneDrive - ERM\Desktop\Current Projects\Calaveras FAL\CAD\0798002_CPSE FAL DESIGN PLANS.dwg BASE MAP, PRINTED ON 1/23/2026 BY Carlie Johnson



SOURCES:

1. CONTOUR DATA: SAN ANTONIO RIVER AUTHORITY, 2017.
2. AERIAL IMAGE: GOOGLE EARTH PRO, IMAGERY DATE 7/2023.



LEGEND	
	PROPERTY BOUNDARY
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING POWER POLE
	PROPOSED CONTOURS
	EXISTING CONTOURS
	EXISTING MONITORING WELL

Rev.	Date	Description	By	Chk
0	01/20/2026	DRAFT FOR REVIEW	COJ	



BASE MAP			DISPLN No.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215			REV.
SCALE AS SHOWN	DESIGNED BY COJ	PROJECT NUMBER 0798002	SHEET No. 2
DATE DRAWN 1.23.2026	DRAWN BY JRF		

GENERAL NOTES

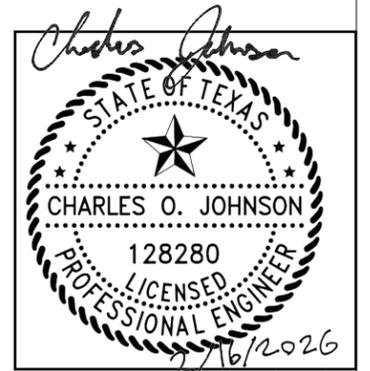
1. THE GENERAL NOTES AND LEGEND PRESENTED ON THIS DRAWING SHALL APPLY TO ALL DRAWINGS.
2. THE TECHNICAL SPECIFICATIONS PROVIDE SUPPLEMENTAL REQUIREMENTS TO GUIDE THE WORK AND SHALL BE CONSIDERED EQUALLY APPLICABLE TO THE WORK AS THE INSTRUCTIONS PRESENTED ON THE DRAWINGS. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS IN BOTH THE DRAWINGS AND THE TECHNICAL SPECIFICATIONS.
3. ALL NOTES AND INSTRUCTIONS PRESENTED ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE TECHNICAL SPECIFICATIONS. IN THE EVENT OF A CONFLICT, ALL CONFLICTS SHALL BE IMMEDIATELY REFERRED TO THE ENGINEER FOR RESOLUTION.

BASE MAP NOTES

1. SOURCE DATA: THE DRAWINGS ARE BASED ON THE FOLLOWING SURVEY AND MAPPING DATA:
2. LAND SURVEY: TOPOGRAPHIC CONTOURS OF THE SITE IS BASED ON DATA FROM THE SAN ANTONIO RIVER AUTHORITY, 2017.
3. LOCATE AND PROTECT ALL EXISTING FACILITIES PRIOR TO AND FOR EVERY STAGE OF THE WORK.

GENERAL CONSTRUCTION NOTES

1. GENERAL REQUIREMENTS: CONSTRUCT THE FAL FINAL COVER AND IMPROVEMENTS AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE NOTES ON THE DRAWINGS AND TECHNICAL SPECIFICATIONS USING PRODUCTS, MEANS AND METHODS ACCEPTABLE TO OWNER TO ACHIEVE ALLCORRESPONDING CQA ACCEPTANCE CRITERIA.
2. RECORD DRAWINGS: MAINTAIN A CURRENT SET OF RECORD DRAWINGS. SHOW ACTUAL MATERIALS, SIZES, LINES, AND GRADES CONSTRUCTED BASED ON CONTRACTOR MEASUREMENTS. PROVIDE A LEGIBLE COPY TO OWNER WITH APPLICATION FOR ACCEPTANCE OF THE WORK.
3. PRODUCTS USED: USE ONLY ONE PRODUCT FOR EACH MANUFACTURED COMPONENT UNLESS OTHERWISE APPROVED BY OWNER.
4. PRODUCT SHIPPING, STORAGE, AND INSTALLATION: SHIP, HANDLE, STORE, AND INSTALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS AND AS APPROVED BY OWNER.
5. TEMPORARY FACILITIES AND CONTROLS: DESIGN, PROVIDE, INSTALL, AND MAINTAIN TEMPORARY FACILITIES AND CONTROLS NEEDED TO ACCOMPLISH THE WORK AND AS APPROVED BY OWNER AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
6. DRAINAGE: DRAIN EXCAVATIONS AND AREAS TO BE FILLED IN DRY CONDITION IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
7. PRODUCT INSTALLATION: INSTALL PRODUCTS AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, APPROVED BY OWNER, AS NOTED ON THE DRAWINGS, AND TECHNICAL SPECIFICATIONS.
8. SITE RESTORATION: REMOVE TEMPORARY CONTROLS AND RESTORE SURFACES TO A STABLE CONDITION PRIOR TO REQUEST FOR OWNER ACCEPTANCE OF THE WORK IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.



TEXAS REGISTERED
ENGINEERING FIRM F-2393

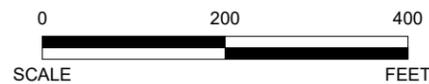


SITE PREPARATION NOTES

1. GENERAL REQUIREMENTS: PREPARE THE SITE FOR CONSTRUCTION AS SHOWN ON THE DRAWINGS, AND AS DESCRIBED IN THE NOTES ON THE DRAWINGS AND TECHNICAL SPECIFICATIONS USING PRODUCTS, MEANS AND METHODS ACCEPTABLE TO OWNER TO ACHIEVE ALL CORRESPONDING CQA ACCEPTANCE CRITERIA.
2. FILL SUBGRADE ROUGH GRADING: ROUGH GRADE THE EXPOSED SUBGRADE SURFACE ONLY TO THE EXTENT NECESSARY TO FACILITATE SUBGRADE COMPACTION IN ACCORDANCE WITH EARTHWORK CONSTRUCTION NOTES. LIMIT EXCAVATION AND FILL DURING ROUGH GRADING TO PROTECT EXISTING FAL BOTTOM LINER.
3. DEWATERING OF THE FAL (IF NEEDED): DRAIN ACCUMULATED STORMWATER IN THE FAL IN ACCORDANCE WITH THE SITE TPDES PERMIT AND CONSTRUCTION STORMWATER PERMIT. MAINTAIN A DRY STABLE SURFACE WITHIN THE DEWATERED FAL PRIOR TO BACKFILL WITH COMPACTED WASTE FILL AND COMPACTED SOIL FILL.
4. DEPENDING ON ABILITY TO DEWATER AND FUTURE GEOTECHNICAL TESTING AND ANALYSIS, UTILIZE STAND PIPES, LEACHATE COLLECTION SUMP(S), OR OTHER MEANS OF DEWATERING WASTE AS NEEDED TO REMOVE LEACHATE AND FOR EFFECTIVE COMPACTION OF WASTE MATERIALS.

SOURCES:

1. CONTOUR DATA: SAN ANTONIO RIVER AUTHORITY, 2017.
2. AERIAL IMAGE: GOOGLE EARTH PRO, IMAGERY DATE 7/2023.

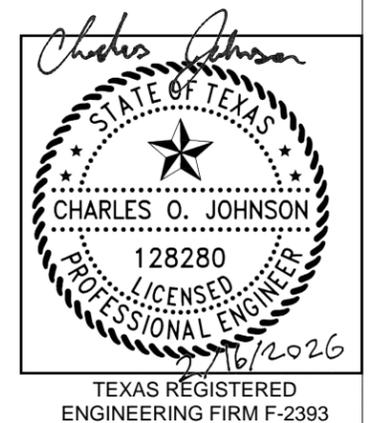


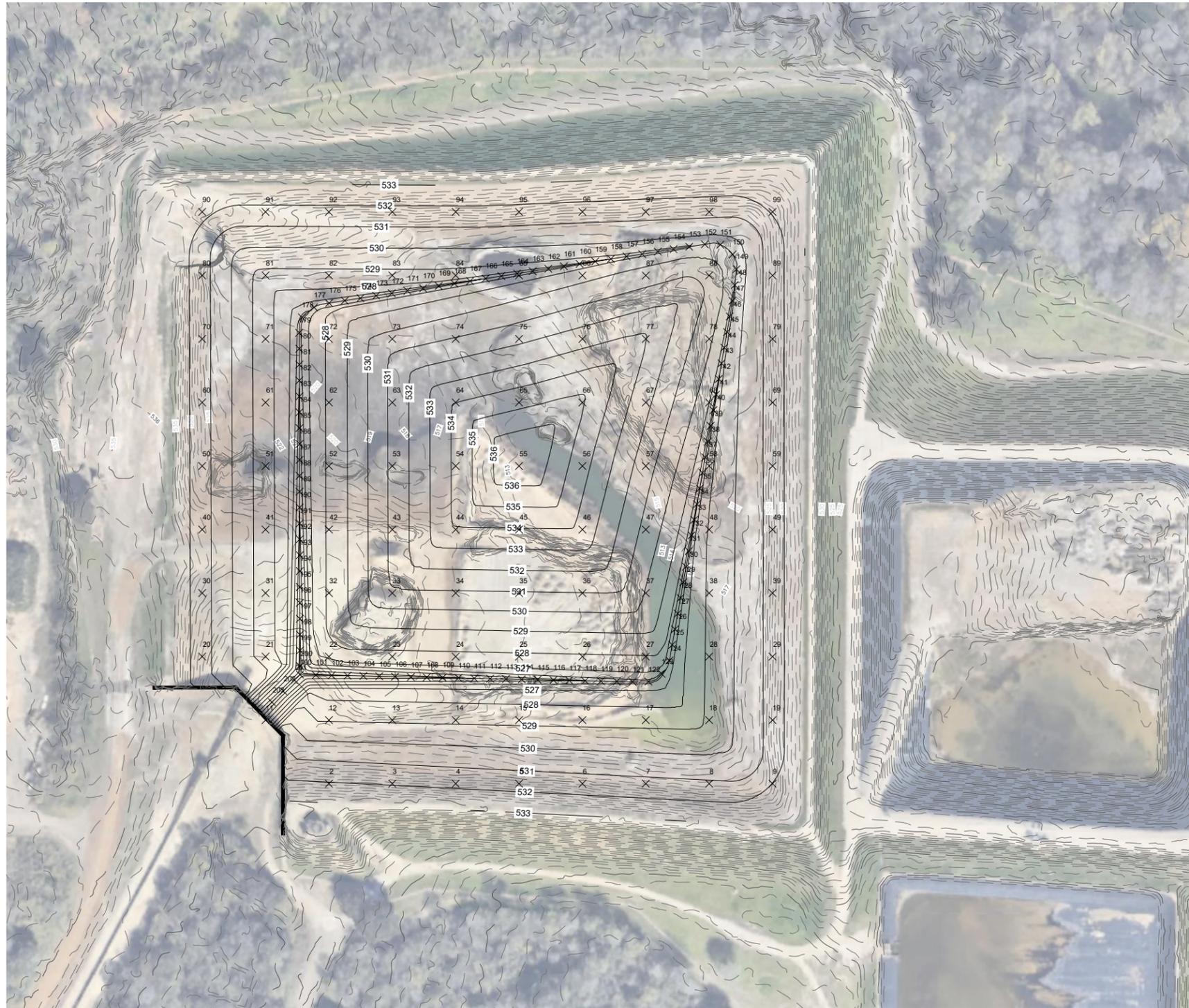
LEGEND	
	PROPERTY BOUNDARY
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING POWER POLE
	PROPOSED CONTOURS
	EXISTING CONTOURS
	EXISTING MONITORING WELL
	LIMITS OF DISTURBANCE

Rev.	Date	Description	By	Chk
0	01/20/2026	DRAFT FOR REVIEW	COJ	



SITE PREPARATION PLAN			DISPLN NO.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215			REV.
SCALE AS SHOWN	DESIGNED BY COJ	PROJECT NUMBER 0798002	SHEET NO. 3
DATE DRAWN 1.23.2026	DRAWN BY JRF		



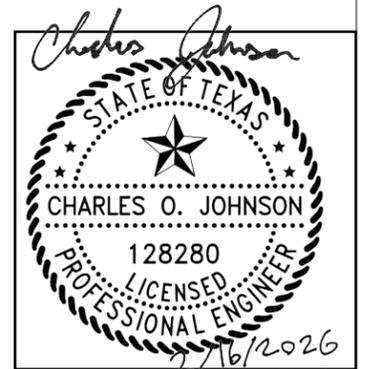


EARTHWORK CONSTRUCTION NOTES

1. GENERAL REQUIREMENTS: CONSTRUCT EARTHWORK AS SHOWN ON THE DRAWINGS FOR EACH PHASE OF SITE PREPARATION, WASTE GRADING, AND FINAL COVER PREPARATION AND CONSTRUCTION AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE NOTES ON THE DRAWINGS AND TECHNICAL SPECIFICATIONS USING PRODUCTS, MEANS AND METHODS ACCEPTABLE TO OWNER TO ACHIEVE ALL CORRESPONDING COA ACCEPTANCE CRITERIA.
2. THE CONTOURS SHALL BE IN ACCORDANCE WITH THE CONTROL POINT ELEVATIONS PROVIDED ON SHEET 9 AT EACH LOCATION. CONTOURS SHALL BE FIELD DETERMINED BASED ON THE CONTROL POINT DATA. THE CONTOURS PROVIDED ON THIS DRAWING ARE FOR INFORMATIONAL AND GRAPHIC DEPICTION PURPOSES ONLY. CONTOURS SHALL BE ACHIEVED THAT ARE TRANSITIONAL, AVOIDING SIGNIFICANT GRADE BREAKS THAT CONCENTRATE SURFACE WATER RUN-OFF FLOWS, AND PRESENT SMOOTH SURFACES WITH GRADUAL CHANGES IN GRADE.
3. CONTROL POINT DATA REPRESENTS THE ANTICIPATED ENVELOPE OF WASTE FILL REQUIREMENTS. IF SUFFICIENT WASTE FILL IS NOT AVAILABLE ON-SITE TO MEET THOSE ELEVATIONS, CONTRACTOR SHALL FILL TO ELEVATIONS BELOW THOSE DESIGNATED BY THE ENGINEER WITHOUT THE IMPORTATION OF SOIL.
4. SITE DRAINAGE CONSTRUCTION: CONSTRUCT THE INTERIOR DRAINAGE CHANNELS AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. MAINTAIN DRAINAGE DURING EACH STAGE OF CONSTRUCTION TO PREVENT ACCUMULATION OF PONDED WATER. STORMWATER IN CONTACT WITH WASTE MUST CONTINUE TO BE MANAGED IN ACCORDANCE WITH THE FACILITY TPDES PERMIT UNTIL WASTE IS COVERED.
5. COMPACTED WASTE FILL: CONSTRUCT COMPACTED WASTE FILL SHOWN ON THE DRAWINGS IN ACCORDANCE WITH WASTE GRADING CONSTRUCTION NOTES, SHEET 4 AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
6. SOIL FILL: CONSTRUCT COMPACTED SOIL FILL AND TOPSOIL FILL SHOWN ON THE DRAWINGS IN ACCORDANCE WITH SOIL FILL CONSTRUCTION NOTES, SHEET 5 AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
7. F.G. SURFACE: GRADE TO PRODUCE A F.G. SURFACE WITH A CONSTANT SLOPE BETWEEN F.G. ELEVATION CONTROL POINTS (I.E. P.C., P.I., P.T., V.P.I., ETC.) AND BREAK LINES (I.E. C/L, F/L, T.O.B., T.O.S., VALLEY LINES, ETC.) SHOWN ON THE DRAWINGS. SMOOTH TRANSITIONS BETWEEN ADJOINING CONSTANT SLOPE AREAS SHALL BE FIELD IMPLEMENTED TO ELIMINATE EROSION FORCES AT THOSE LOCATIONS.

WASTE GRADING CONSTRUCTION NOTES

1. GENERAL REQUIREMENTS: GRADE WASTE FILL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE NOTES ON THE DRAWINGS AND TECHNICAL SPECIFICATIONS USING PRODUCTS, MEANS AND METHODS ACCEPTABLE TO OWNER TO ACHIEVE ALL CORRESPONDING COA ACCEPTANCE CRITERIA.
2. COMPACTED SUBGRADE: PREPARE AND COMPACT LANDFILL SUBGRADE SUPPORTING WASTE FILL PRIOR TO PLACING THE INITIAL COMPACTED WASTE FILL LIFT.
 - PROOF-ROLL: AFTER COMPLETION OF SITE PREPARATION, PROOF-ROLL THE PREPARED SURFACE TO IDENTIFY SATURATED, PUMPING, OR UNSUITABLE MATERIAL THAT REQUIRES EXCAVATION AND DRYING PRIOR TO DISPOSAL IN THE LANDFILL.
 - ADJUST SUBGRADE SURFACE SOIL OR WASTE FILL MOISTURE CONTENT OR ALLOW TO DRY IF NEEDED TO ACHIEVE EFFECTIVE COMPACTION.
 - COMPACTION: COMPACT THE FILL SUBGRADE SOIL OR WASTE TO RECEIVE FILL WITH A MINIMUM OF 5 PASSES OF COMPACTION EQUIPMENT UNTIL THE SURFACE IS SUBSTANTIALLY UNYIELDING.
3. FILL LIFT THICKNESS: PLACE UNCOMPACTED WASTE IN LOOSE LIFTS THAT PRODUCE A COMPACTED LIFT THICKNESS NOT GREATER THAN 6 INCHES.
4. ADJUST WASTE FILL OR WASTE SOIL LIFT MOISTURE CONTENT OR ALLOW TO DRY IF NEEDED TO ACHIEVE EFFECTIVE COMPACTION.



TEXAS REGISTERED ENGINEERING FIRM F-2393

SOURCES:

1. CONTOUR DATA: SAN ANTONIO RIVER AUTHORITY, 2017.
2. AERIAL IMAGE: GOOGLE EARTH PRO, IMAGERY DATE 7/2023.



LEGEND

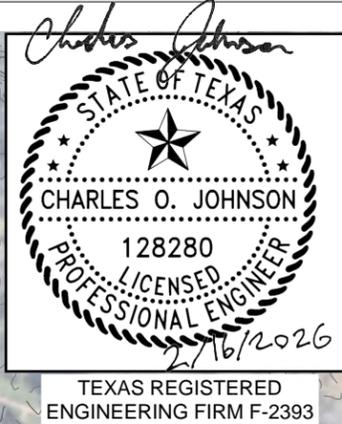
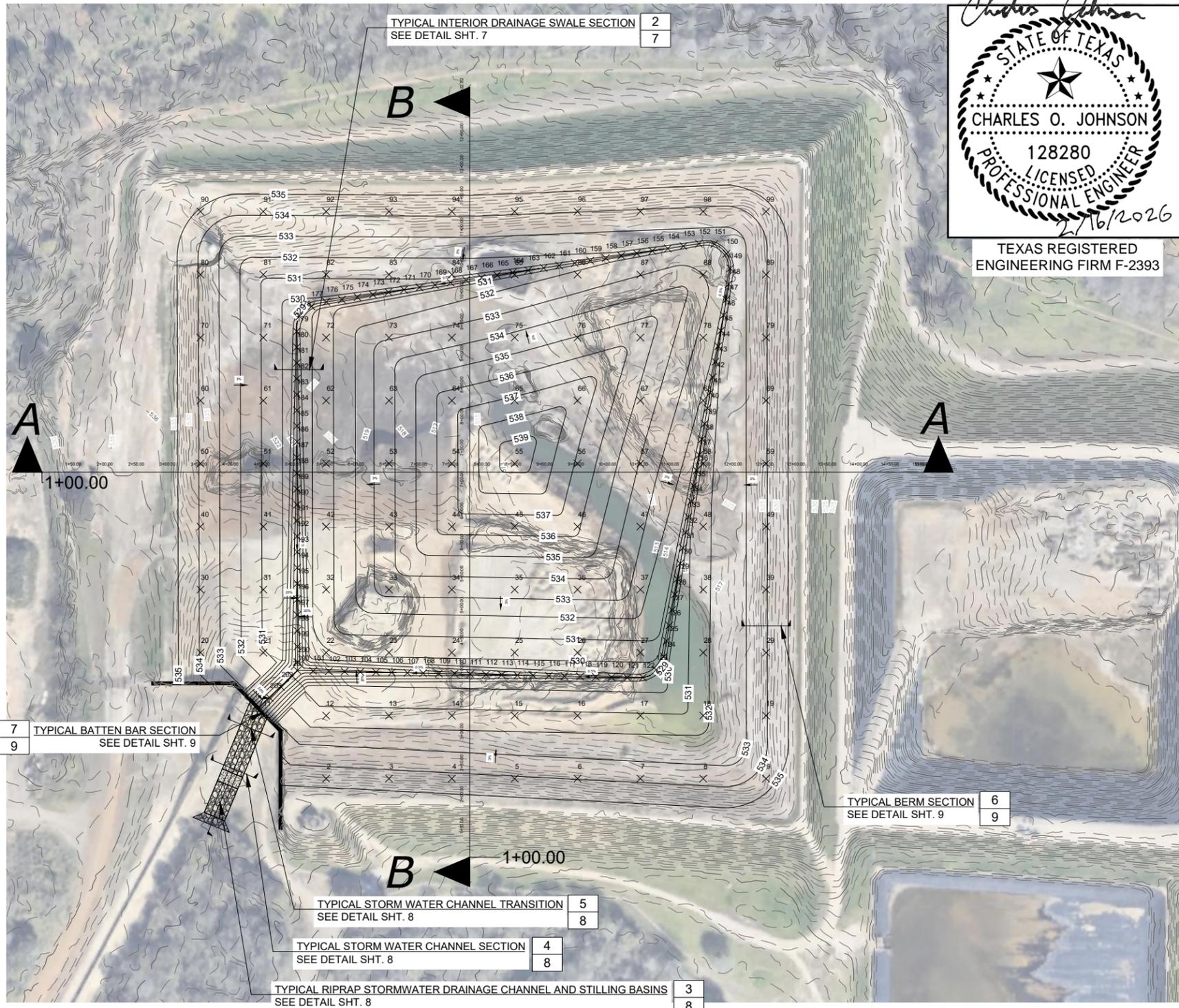
- PROPERTY BOUNDARY
- OE — EXISTING OVERHEAD ELECTRIC LINE
- EXISTING POWER POLE
- 520 — PROPOSED CONTOURS
- 520 — EXISTING CONTOURS
- EXISTING MONITORING WELL

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WASTE GRADING PLAN			DISPLN No.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215			REV.
SCALE AS SHOWN	DESIGNED BY COJ	PROJECT NUMBER 0798002	SHEET No. 4
DATE DRAWN 1.23.2026	DRAWN BY JRF		

FILE PATH: C:\Users\carlie.johnson\Documents\OneDrive - ERM\Desktop\Current Projects\Calaveras FAL\CAD\0798002_CPSE FAL DESIGN PLANS.dwg FINAL GRADING PLAN, PRINTED ON 1/23/2026 BY Carlie Johnson



SOIL FILL CONSTRUCTION NOTES

- GENERAL REQUIREMENTS: CONSTRUCT COMPACTED SOIL FILL AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE NOTES ON THE DRAWINGS AND TECHNICAL SPECIFICATIONS USING PRODUCTS, MEANS AND METHODS ACCEPTABLE TO OWNER TO ACHIEVE ALL CORRESPONDING COA ACCEPTANCE CRITERIA.
- COMPACTED SOIL FILL: NATURAL SOIL THAT CONTAINS NO ORGANIC MATTER, ROOTS, VEGETATION OR WASTE, AS DESIGNATED BY OWNER, AND IS SUITABLE FOR PRODUCING STABLE AND DURABLE FILL WHEN SPREAD, WATER CONTENT ADJUSTED, AND COMPACTED IN LIFTS AS DESCRIBED IN THESE NOTES AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- SOIL FILL CLASSIFICATIONS: COMPACTED SOIL FILL CLASSIFICATIONS INCLUDE:
 - TOPSOIL FILL: SOIL FILL USED AS TOPSOIL OVER FINAL COVER AND COMPACTED SOIL FILL AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS
 - COMPACTED SOIL FILL: COMPACTED SOIL FILL CAPABLE OF SUPPORTING ASSOCIATED EARTHWORK AND RELATED CONSTRUCTION, OPERATION, AND MAINTENANCE EQUIPMENT AND MATERIALS LOADS.
- SOIL FILL BORROW SOURCES: SOIL FILL MATERIALS FROM SUITABLE BORROW SOURCES APPROVED FOR EACH USE BY OWNER AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- COMPACTED SUBGRADE: PREPARE AND COMPACT SOIL SUBGRADE SUPPORTING COMPACTED SOIL FILL PRIOR TO PLACING THE INITIAL COMPACTED SOIL FILL LIFT.
 - PROOF ROLL: AFTER COMPLETION OF SITE PREPARATION, PROOF-ROLL THE PREPARED SURFACE TO IDENTIFY SATURATED, PUMPING, OR UNSUITABLE MATERIAL THAT REQUIRES EXCAVATION, DRYING, OR DISPOSAL.
 - SCARIFICATION: SCARIFY THE SURFACE LAYER OF EXPOSED SUBGRADE SOIL TO RECEIVE FILL TO A MINIMUM DEPTH OF 6 INCHES.
 - WATER CONTENT ADJUSTMENT: DISTRIBUTE AND THOROUGHLY MIX WATER WITH THE SCARIFIED SUBGRADE SOIL IF NEEDED TO ADJUST THE MOISTURE CONTENT OR ALLOW TO DRY IF NEEDED TO ACHIEVE EFFECTIVE COMPACTION.
 - COMPACTION: COMPACT THE FILL SUBGRADE SOIL OR WASTE TO RECEIVE FILL WITH A MINIMUM OF 5 PASSES OF COMPACTION EQUIPMENT UNTIL THE SURFACE IS SUBSTANTIALLY UNYIELDING.
 - COMPACTION AND WATER CONTENT MAINTENANCE: MAINTAIN THE SURFACE COMPACTION AND WATER CONTENT OF THE COMPACTED SUBGRADE UNTIL THE COMPACTED SUBGRADE IS COVERED BY AT LEAST ONE LAYER OF COMPACTED SOIL FILL.
- FILL LIFT SUBGRADE PREPARATION: PRIOR TO PLACEMENT OF EACH UNCOMPACTED SOIL LIFT, SCARIFY THE SURFACE OF THE SUPPORTING COMPACTED SUBGRADE OR COMPACTED SOIL LIFT TO A DEPTH OF 1 TO 2 INCHES BELOW THE EXPOSED SURFACE TO FACILITATE BONDING OF THE SUPPORTING LIFT WITH THE NEW LIFT.
- FILL LIFT THICKNESS: PLACE UNCOMPACTED SOIL IN LOOSE LIFTS THAT PRODUCE A COMPACTED LIFT THICKNESS NOT GREATER THAN 6 INCHES.
- LIFT COMPACTION: COMPACT THE SOIL FILL LIFT WITH AT LEAST 5 PASSES OF SUITABLE COMPACTION EQUIPMENT OR MORE AS NECESSARY TO EFFECTIVELY RE-MOLD THE ENTIRE LIFT THICKNESS TO PRODUCE A STABLE LIFT SURFACE WITH A DRY DENSITY OF AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY COMPACTED TO WITHIN 3%+ TO 1%- OF THE STANDARD PROCTOR OPTIMUM WATER CONTENT, UNLESS OTHERWISE NOTED.
- WATER CONTENT CONTROL: TEST COMPACTED FILL TO CONFIRM WATER CONTENT AND DRY DENSITY CRITERIA ARE ACHIEVED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS AND COA PLAN. IF NECESSARY TO ACHIEVE WATER CONTENT LIMITS, ADD WATER AND THOROUGHLY MIX SOIL TO MODIFY THE WATER CONTENT OF SOIL THROUGHOUT THE LIFT PRIOR TO RE-COMPACTION TO WITHIN 3%+ TO 1%- OF THE STANDARD PROCTOR OPTIMUM WATER CONTENT, UNLESS OTHERWISE NOTED.
- COMPACTED FILL WATER CONTENT MAINTENANCE: APPLY WATER TO THE FINISHED COMPACTED SOIL FILL SURFACE AS NEEDED, TO PREVENT SURFACE AND SUBSURFACE CRACKING UNTIL THE EXPOSED SURFACE IS COVERED BY ADDITIONAL FILL OR FINAL COVER. SCARIFY, ADJUST WATER CONTENT, AND RECOMPACT COMPACTED SOIL FILL THAT DRIES AND CRACKS IN ACCORDANCE WITH THE DRAWING AND SPECIFICATIONS.
- TOPSOIL FILL LIFT THICKNESS: PLACE UNCOMPACTED SOIL IN LOOSE LIFTS. TOPSOIL SHALL NOT BE COMPACTED MORE THAN IS NECESSARY TO SPREAD AND GRADE THE LAYER(S) TO A FINAL THICKNESS OF 6 INCHES.

ACCESS ROAD AND RIPRAP APRON CONSTRUCTION NOTES

- ACCESS ROAD AND RIPRAP APRONS: CONSTRUCT ACCESS ROADS AND RIPRAP APRONS AS SHOWN ON THE DRAWINGS.
- NON-WOVEN GEOTEXTILE: PROVIDE A 6-OZ/SY NON-WOVEN GEOTEXTILE FILTER/SEPARATOR; PROPEX "GEOTEX 601", OR EQUAL APPROVED BY OWNER.
- WOVEN GEOTEXTILE: PROVIDE A 6-OZ/SY WOVEN GEOTEXTILE FILTER/SEPARATOR; TENCATE "MIRAFI 600X", PROPEX "GEOTEX 315ST", OR EQUAL APPROVED BY OWNER.
- ROAD BASE: PROVIDE CRUSHED ROCK ROAD BASE IN ACCORDANCE WITH TXDOT STD. SPEC. 247, TYPE A, GRADE 1.
- RIPRAP: PROVIDE RIPRAP IN ACCORDANCE WITH TXDOT STD. SPEC 432, TXDOT 12" PROTECTION RIPRAP.
- CLEARING AND SUBGRADE COMPACTION: STRIP THE SURFACE AND COMPACT THE SUBGRADE TO BE COVERED BY ACCESS ROAD FILL AND ROAD BASE IN ACCORDANCE WITH SITE PREPARATION NOTES, SHEET 3 AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- COMPACTED SOIL FILL: CONSTRUCT COMPACTED FILL WHERE NEEDED TO SUPPORT THE ROAD BASE AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH SOIL FILL NOTES, SHEET 5 AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- GEOTEXTILE PLACEMENT: PLACE WOVEN GEOTEXTILE FILTER/SEPARATOR ON THE COMPACTED SOIL FILL SURFACE FOLLOWING PLACEMENT AND COMPACTION OF THE ROAD BASE WHERE SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. PLACE NONWOVEN GEOTEXTILE FILTER/SEPARATOR ON THE COMPACTED SOIL FILL SURFACE FOLLOWING PLACEMENT OF RIPRAP WHERE SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
 - LONG AXIS: CENTER THE PANELS ON THE CENTERLINE OF THE ROAD SECTION UNLESS OTHERWISE APPROVED BY OWNER.
 - LAPS: LAP GEOTEXTILES 4 FEET AT END AND SIDE LAPS.
 - LAP CLEARANCES: CONFIGURE PLACEMENT OF PANELS SO THAT THERE ARE NO LAPS WITHIN 10 FEET OF PIPE TRENCHES OR AT EDGES OR ENDS OF THE NEW ROAD.
- ROAD BASE: PLACE AND COMPACT ROAD BASE IN TWO EQUAL-COMPACTED-THICKNESS LIFTS TO A TOTAL THICKNESS OF 10 INCHES OVER THE PREPARED SUBGRADE SURFACE AND GEOTEXTILE FILTER/SEPARATOR WHERE SHOWN ON THE DRAWINGS.

SOURCES:

- CONTOUR DATA: SAN ANTONIO RIVER AUTHORITY, 2017.
- AERIAL IMAGE: GOOGLE EARTH PRO, IMAGERY DATE 7/2023.



LEGEND

	PROPERTY BOUNDARY
	EXISTING OVERHEAD ELECTRIC LINE
	EXISTING POWER POLE
	PROPOSED CONTOURS
	EXISTING CONTOURS
	EXISTING MONITORING WELL
	LIMITS OF DISTURBANCE
	ROCK RIPRAP
	CONCRETE DRIVEWAY

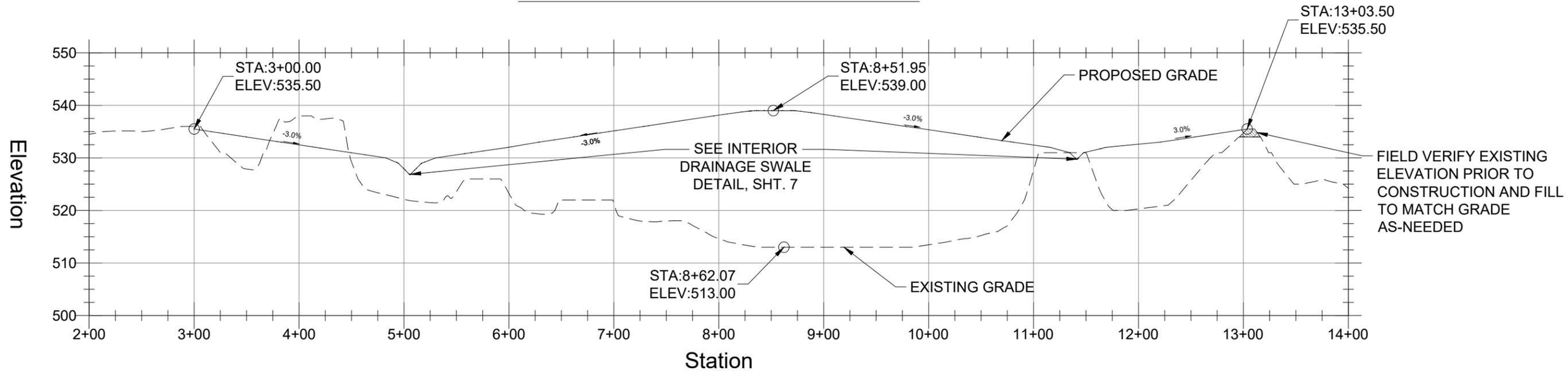
Rev.	Date	Description	By	Chk
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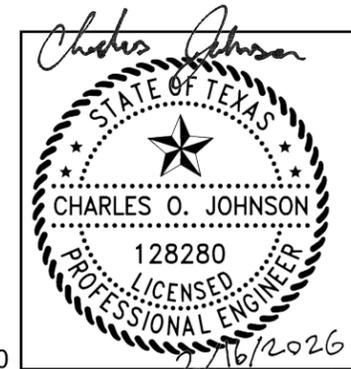
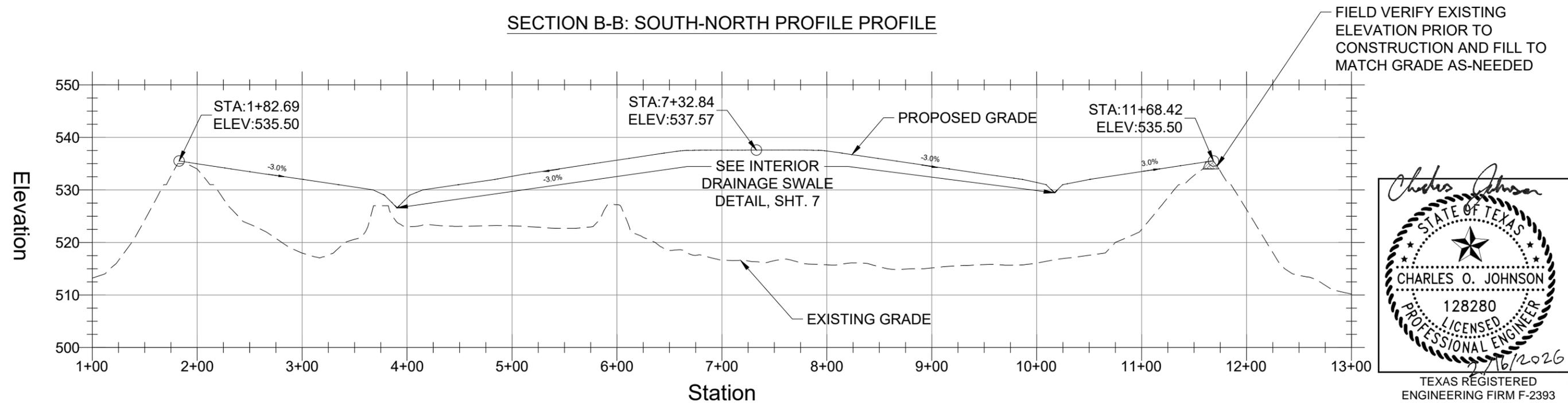
FINAL GRADING PLAN				DISPLN NO.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215				REV.
SCALE	AS SHOWN	DESIGNED BY	PROJECT NUMBER	SHEET NO. 5
DATE DRAWN	1.23.2026	DRAWN BY	0798002	
		COJ	JRF	

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SECTION A-A: WEST-EAST PROFILE PROFILE



SECTION B-B: SOUTH-NORTH PROFILE PROFILE



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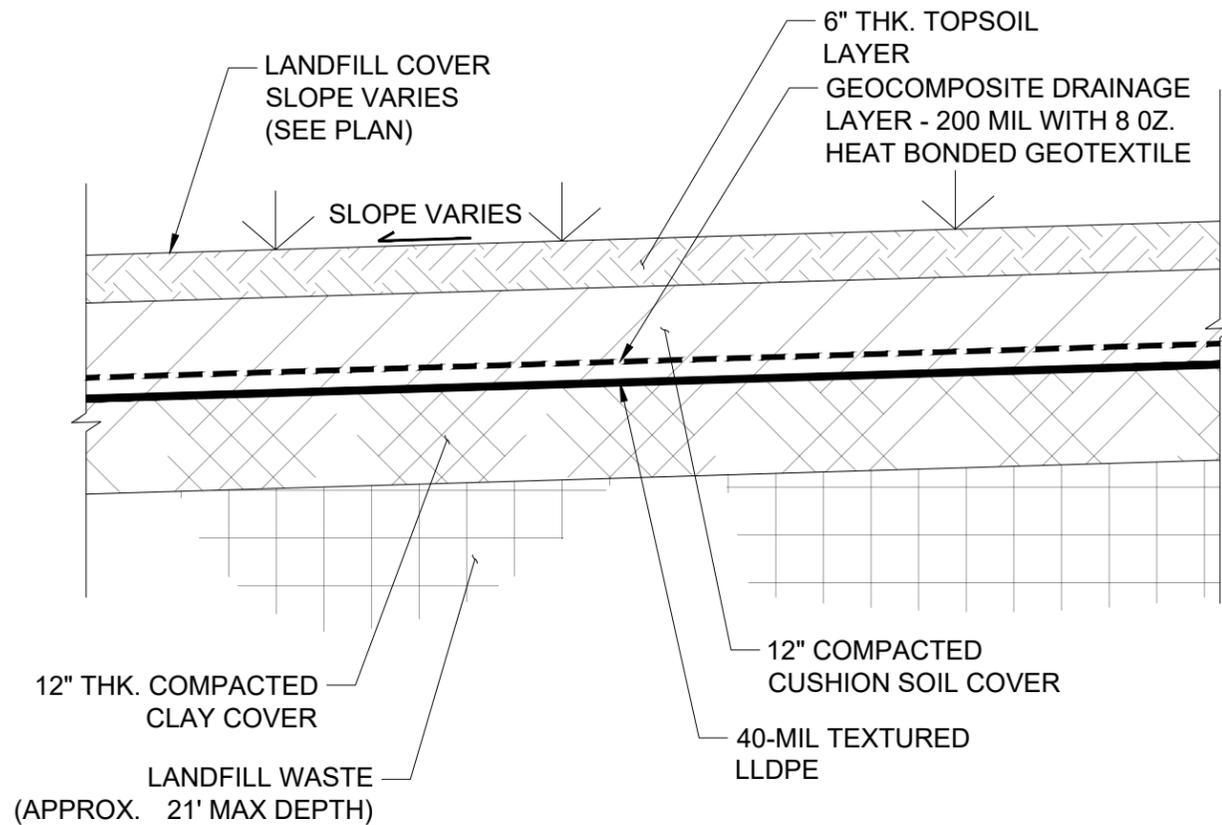
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0	01/20/2026	DRAFT FOR REVIEW	COJ	

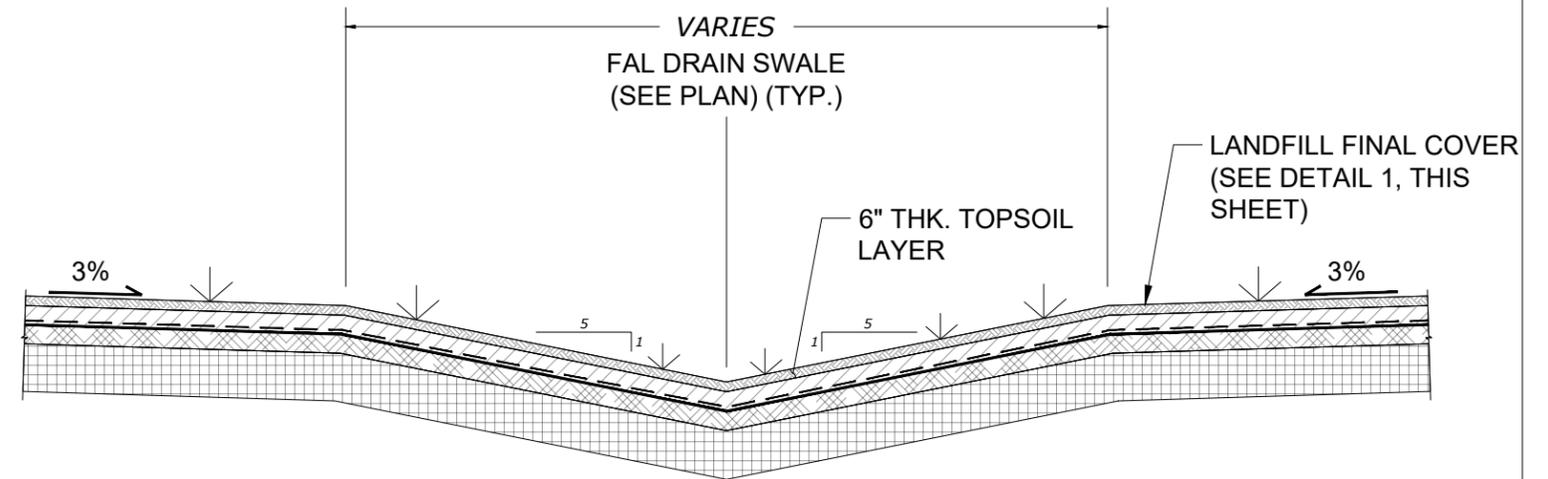


SECTIONS				DISPLN NO.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215				REV.
SCALE	AS SHOWN	DESIGNED BY	PROJECT NUMBER	SHEET NO.
DATE DRAWN	1.23.2026	DRAWN BY	0798002	
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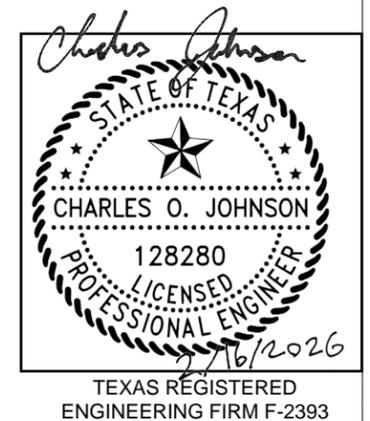
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1 TYPICAL FINAL COVER DETAIL
7 SCALE: N.T.S.

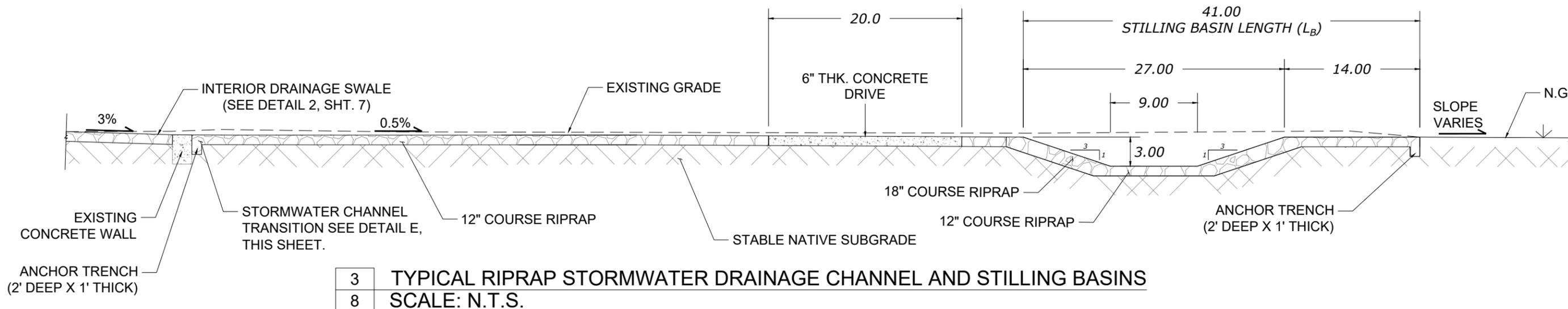


2 TYPICAL INTERIOR DRAINAGE SWALE SECTION
7 SCALE: N.T.S.

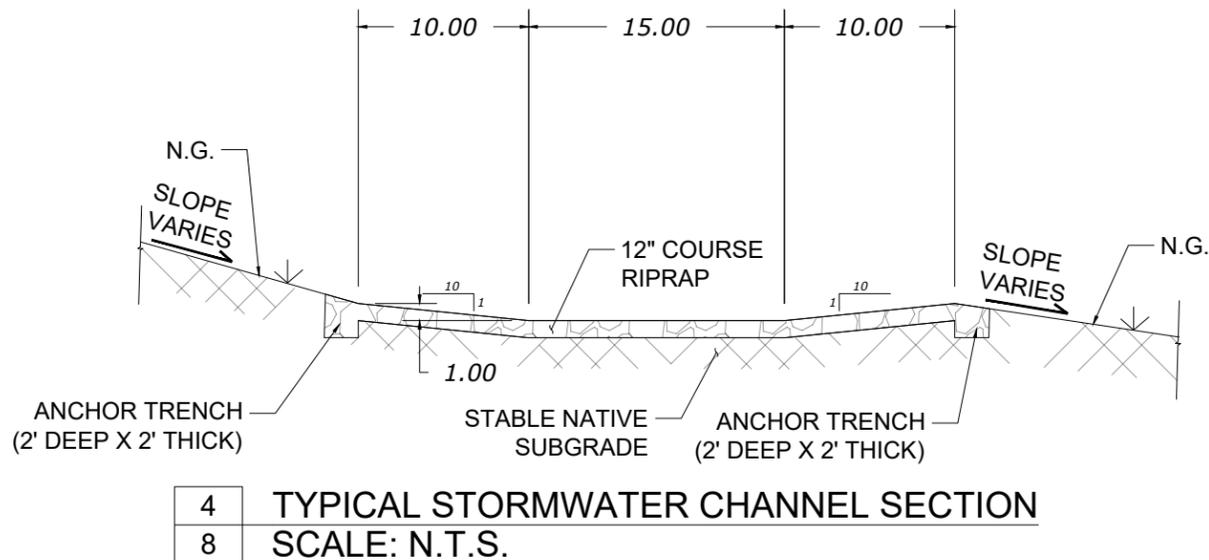


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				CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215				REV.
SCALE		AS SHOWN		DESIGNED BY		PROJECT NUMBER		SHEET NO. 7
DATE DRAWN		1.23.2026		DRAWN BY		0798002		
0		01/20/2026		DRAFT FOR REVIEW				
Rev.	Date	Description		By	Chk			

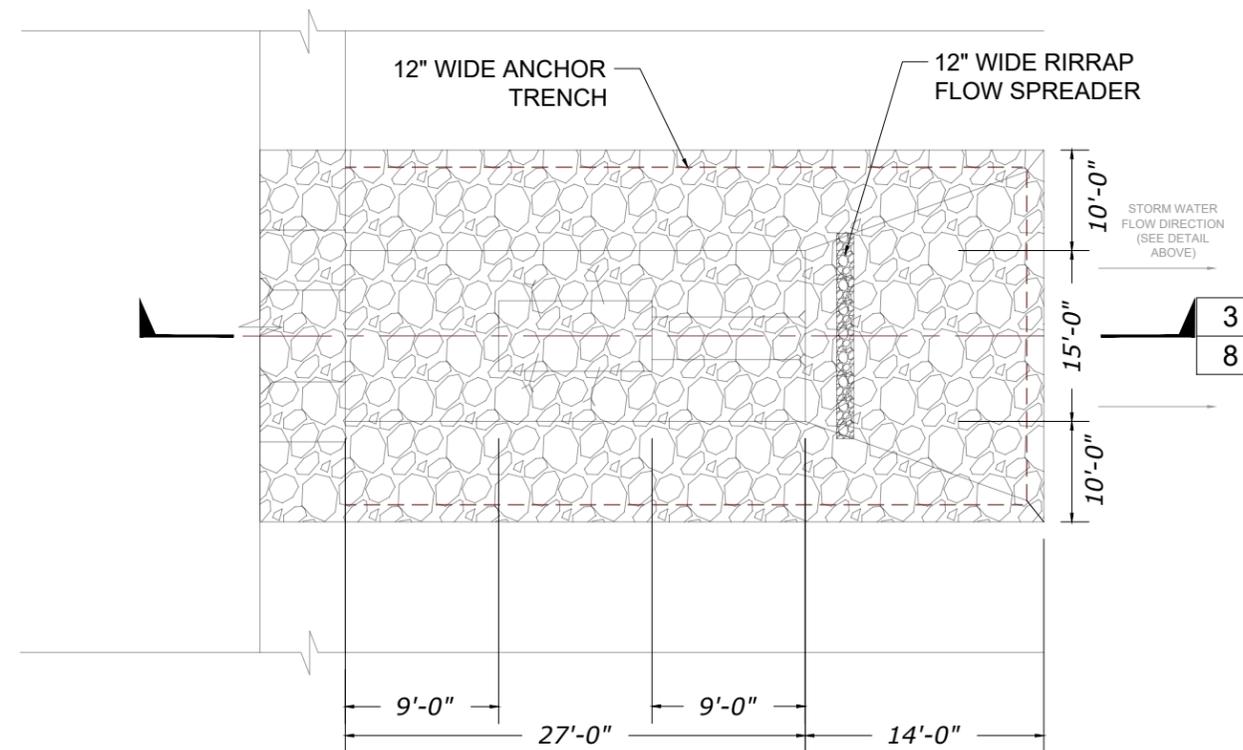
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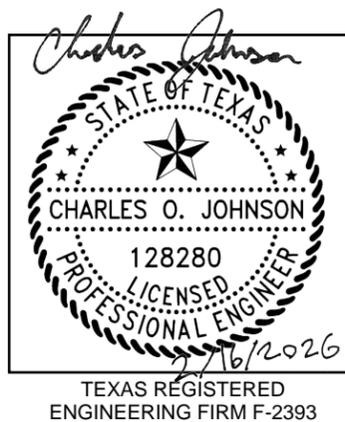
3 TYPICAL RIPRAP STORMWATER DRAINAGE CHANNEL AND STILLING BASINS
8 SCALE: N.T.S.



4 TYPICAL STORMWATER CHANNEL SECTION
8 SCALE: N.T.S.



5 TYPICAL STORM WATER CHANNEL TRANSITION
8 SCALE: N.T.S.

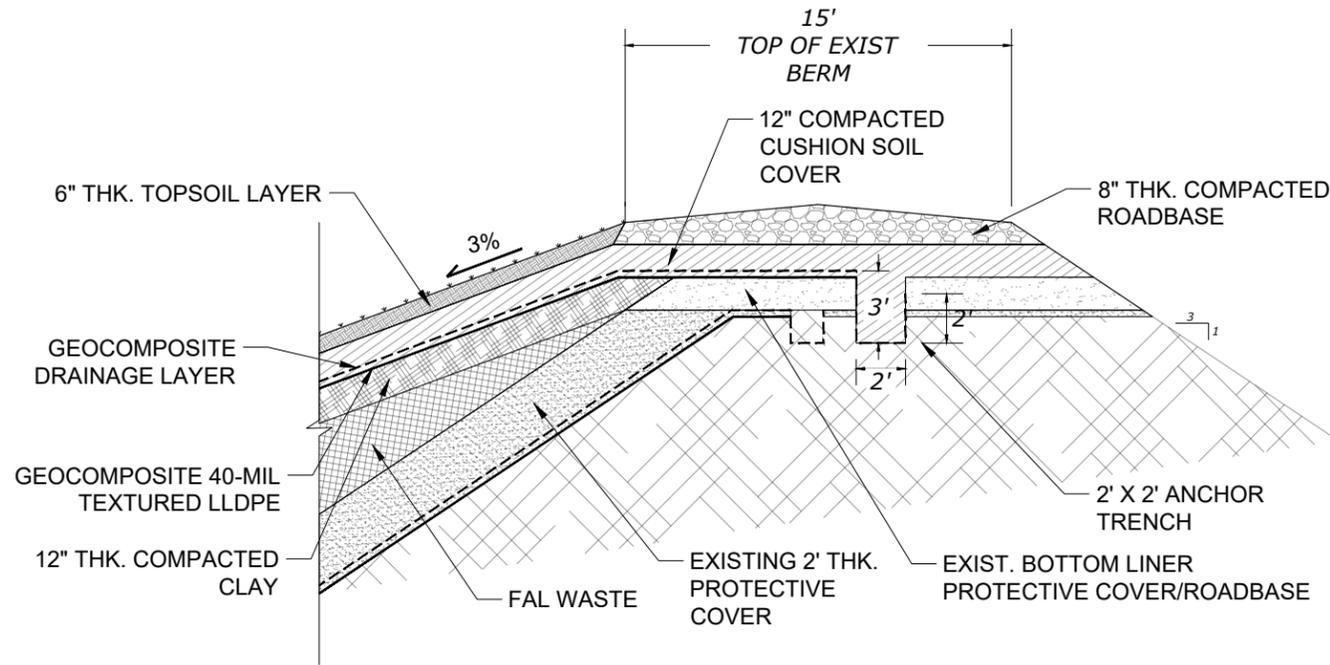


Rev.	Date	Description	By	Chk
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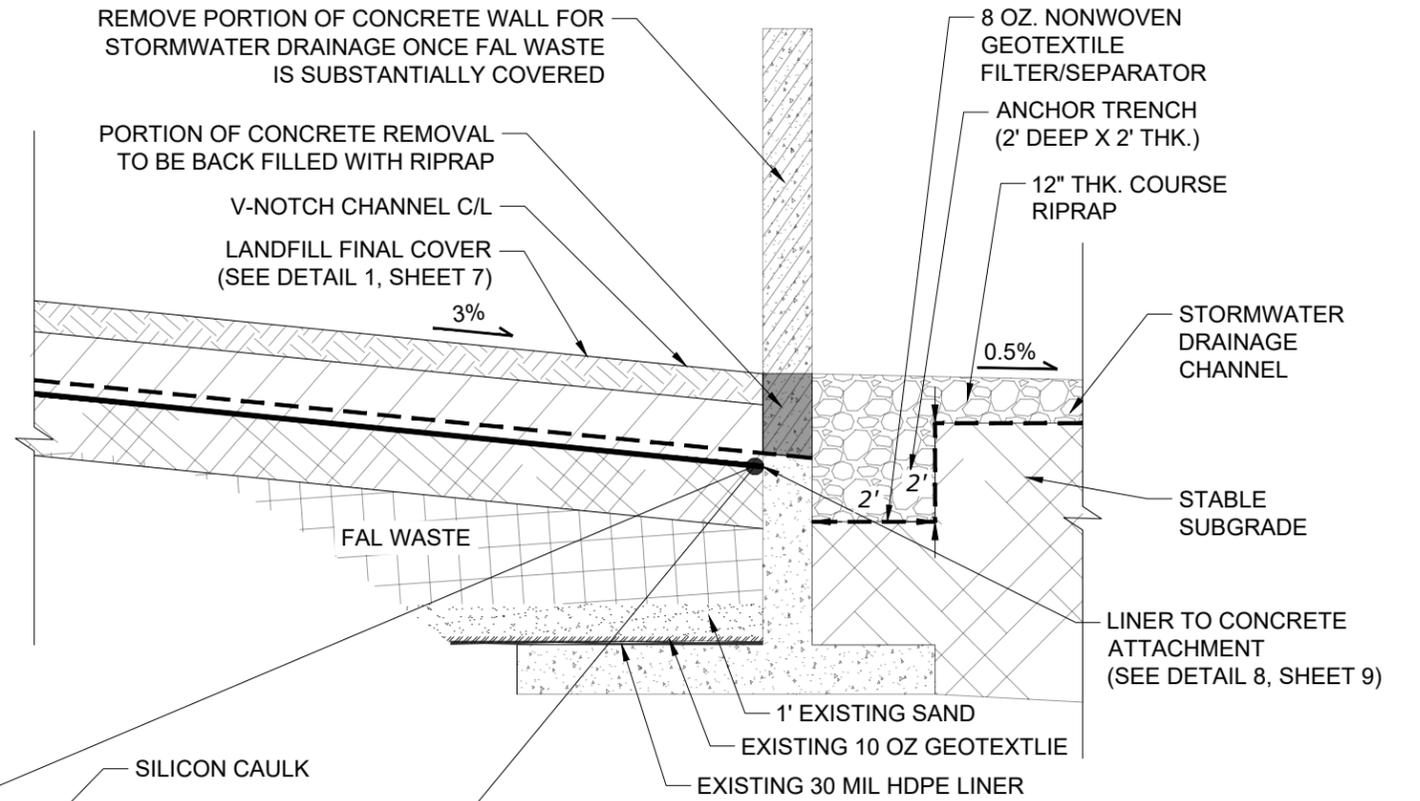


DETAILS (2 OF 3)				DISPLN NO.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215				REV.
SCALE	AS SHOWN	DESIGNED BY	PROJECT NUMBER	SHEET NO. 8
DATE DRAWN	1.23.2026	DRAWN BY	0798002	
		COJ		
		JRF		

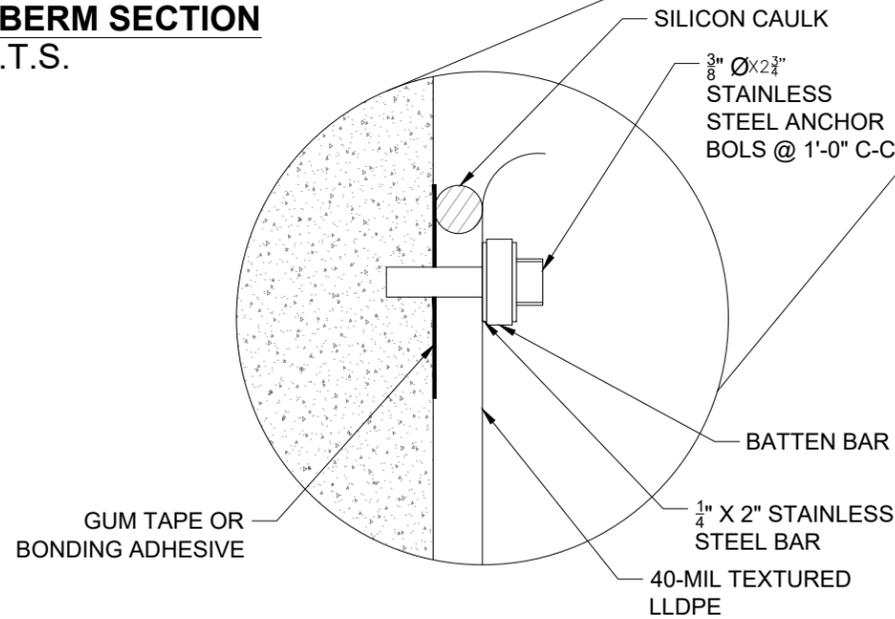
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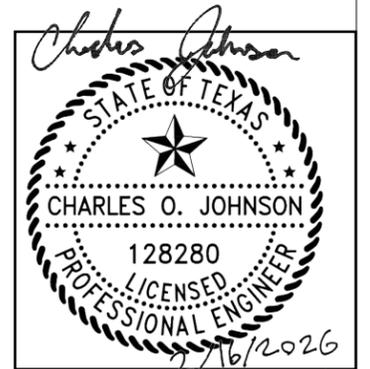
6 **TYPICAL BERM SECTION**
9 **SCALE: N.T.S.**



7 **TYPICAL BATTEN BAR SECTION**
9 **SCALE: N.T.S.**



8 **TYPICAL LINER TO CONCRETE ATTACHMENT**
9 **SCALE: N.T.S.**



TEXAS REGISTERED
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DETAILS (3 OF 3)				DISPLN NO.
CPS ENERGY 500 MCCULLOUGH AVENUE SAN ANTONIO, TEXAS 78215				REV.
SCALE	AS SHOWN	DESIGNED BY	PROJECT NUMBER	SHEET NO. 9
DATE DRAWN	1.23.2026	DRAWN BY	0798002	
		COJ	JRF	

CONTROL POINT SUMMARY				
CONTROL POINT INDEX NO.	Northing	Easting	TOP OF WASTE (ELEVATION, FEET)	TOP OF TOPSOIL (ELEVATION, FEET)
66	13667738.7638	2187305.3920	535.06	537.56
2	13667138.7638	2186905.3920	532.07	534.57
3	13667138.7638	2187005.3920	531.92	534.42
4	13667138.7638	2187105.3920	531.77	534.27
5	13667138.7638	2187205.3920	531.62	534.12
6	13667138.7638	2187305.3920	531.47	533.97
7	13667138.7638	2187405.3920	531.32	533.82
8	13667138.7638	2187505.3920	531.17	533.67
9	13667138.7638	2187605.3920	531.02	534.52
11	13667238.7638	2186805.3920	524.53	527.03
12	13667238.7638	2186905.3920	528.94	531.44
13	13667238.7638	2187005.3920	528.87	531.37
14	13667238.7638	2187105.3920	528.81	531.31
15	13667238.7638	2187205.3920	528.74	531.24
16	13667238.7638	2187305.3920	528.68	531.18
17	13667238.7638	2187405.3920	528.61	531.11
18	13667238.7638	2187505.3920	529.24	531.74
19	13667238.7638	2187605.3920	531.44	533.94
20	13667338.7638	2186705.3920	531.45	533.95
21	13667338.7638	2186805.3920	528.62	531.12
22	13667338.7638	2186905.3920	527.19	529.69
23	13667338.7638	2187005.3920	527.71	530.21
24	13667338.7638	2187105.3920	527.77	530.27
25	13667338.7638	2187205.3920	527.83	530.33
26	13667338.7638	2187305.3920	527.89	530.39
27	13667338.7638	2187405.3920	527.95	530.45
28	13667338.7638	2187505.3920	529.19	531.69
29	13667338.7638	2187605.3920	531.44	533.94
30	13667438.7638	2186705.3920	531.44	533.94
31	13667438.7638	2186805.3920	528.44	530.94
32	13667438.7638	2186905.3920	528.13	530.63
33	13667438.7638	2187005.3920	530.78	533.28
34	13667438.7638	2187105.3920	530.88	533.38
35	13667438.7638	2187205.3920	530.93	533.43
36	13667438.7638	2187305.3920	530.98	533.48
37	13667438.7638	2187405.3920	529.91	532.41
38	13667438.7638	2187505.3920	529.15	531.65
39	13667438.7638	2187605.3920	531.44	533.94
40	13667538.7638	2186705.3920	531.43	533.93
41	13667538.7638	2186805.3920	528.43	530.93
42	13667538.7638	2186905.3920	528.14	530.64
43	13667538.7638	2187005.3920	531.21	533.71
44	13667538.7638	2187105.3920	533.86	536.36
45	13667538.7638	2187205.3920	533.93	536.43
46	13667538.7638	2187305.3920	533.62	536.12
47	13667538.7638	2187405.3920	530.71	533.21
48	13667538.7638	2187505.3920	529.06	531.56
49	13667538.7638	2187605.3920	531.45	533.95
50	13667638.7638	2186705.3920	531.42	533.92
51	13667638.7638	2186805.3920	528.42	530.92
52	13667638.7638	2186905.3920	528.15	530.65
53	13667638.7638	2187005.3920	531.21	533.71
54	13667638.7638	2187105.3920	534.21	536.71
55	13667638.7638	2187205.3920	536.50	539.00
56	13667638.7638	2187305.3920	534.36	536.86

CONTROL POINT SUMMARY				
CONTROL POINT INDEX NO.	Northing	Easting	TOP OF WASTE (ELEVATION, FEET)	TOP OF TOPSOIL (ELEVATION, FEET)
57	13667638.7638	2187405.3920	531.43	533.93
58	13667638.7638	2187505.3920	528.63	531.13
59	13667638.7638	2187605.3920	531.45	533.95
60	13667738.7638	2186705.3920	531.41	533.91
61	13667738.7638	2186805.3920	528.41	530.91
62	13667738.7638	2186905.3920	528.16	530.66
63	13667738.7638	2187005.3920	531.22	533.72
64	13667738.7638	2187105.3920	533.98	536.48
65	13667738.7638	2187205.3920	534.70	537.20
67	13667738.7638	2187405.3920	532.27	534.77
68	13667738.7638	2187505.3920	529.01	531.51
69	13667738.7638	2187605.3920	531.45	533.95
70	13667838.7638	2186705.3920	531.40	533.90
71	13667838.7638	2186805.3920	528.40	530.90
72	13667838.7638	2186905.3920	528.16	530.66
73	13667838.7638	2187005.3920	530.40	532.90
74	13667838.7638	2187105.3920	531.07	533.57
75	13667838.7638	2187205.3920	531.76	534.26
76	13667838.7638	2187305.3920	532.56	535.06
77	13667838.7638	2187405.3920	533.01	535.51
78	13667838.7638	2187505.3920	530.17	532.67
79	13667838.7638	2187605.3920	531.45	533.95
80	13667938.7638	2186705.3920	531.39	533.89
82	13667938.7638	2186905.3920	528.69	531.19
83	13667938.7638	2187005.3920	528.71	531.21
84	13667938.7638	2187105.3920	528.62	531.12
85	13667938.7638	2187205.3920	527.96	530.46
86	13667938.7638	2187305.3920	529.67	532.17
87	13667938.7638	2187405.3920	530.45	532.95
88	13667938.7638	2187505.3920	530.47	532.97
89	13667938.7638	2187605.3920	531.45	533.95
90	13668038.7638	2186705.3920	532.38	534.88
91	13668038.7638	2186805.3920	531.68	534.18
92	13668038.7638	2186905.3920	531.69	534.19
93	13668038.7638	2187005.3920	531.71	534.21
94	13668038.7638	2187105.3920	531.72	534.22
95	13668038.7638	2187205.3920	531.64	534.14
96	13668038.7638	2187305.3920	531.52	534.02
97	13668038.7638	2187405.3920	531.40	533.90
98	13668038.7638	2187505.3920	531.28	533.78
99	13668038.7638	2187605.3920	532.11	534.61
100	13667310.3994	2186859.7318	522.50	525.00
101	13667309.8710	2186884.7262	522.66	525.16
102	13667309.3427	2186909.7206	522.82	525.32
103	13667308.8144	2186934.7150	522.98	525.48
104	13667308.2862	2186959.7095	523.13	525.63
105	13667307.7582	2186984.7039	523.29	525.79
106	13667307.2301	2187009.6983	523.45	525.95
107	13667306.7018	2187034.6927	523.59	526.09
108	13667306.1735	2187059.6871	523.71	526.21
109	13667305.6452	2187084.6816	523.84	526.34
110	13667305.1169	2187109.6760	523.96	526.46
111	13667304.5887	2187134.6704	524.09	526.59
112	13667304.0604	2187159.6648	524.21	526.71
113	13667303.5322	2187184.6592	524.34	526.84

CONTROL POINT SUMMARY				
CONTROL POINT INDEX NO.	Northing	Easting	TOP OF WASTE (ELEVATION, FEET)	TOP OF TOPSOIL (ELEVATION, FEET)
114	13667303.0039	2187209.6536	524.46	526.96
115	13667302.4444	2187234.6474	524.59	527.09
116	13667301.8713	2187259.6408	524.73	527.23
117	13667301.2981	2187284.6342	524.86	527.36
118	13667300.7250	2187309.6277	524.99	527.49
119	13667300.1652	2187334.6214	525.13	527.63
120	13667299.6061	2187359.6151	525.26	527.76
121	13667299.0469	2187384.6089	525.40	527.90
122	13667299.4194	2187409.6027	525.50	528.00
123	13667311.5900	2187430.4277	526.01	528.51
124	13667332.6553	2187442.7424	526.48	528.98
125	13667357.2781	2187447.0677	526.49	528.99
126	13667381.8924	2187451.4421	526.49	528.99
127	13667406.5067	2187455.8166	526.49	528.99
128	13667431.1211	2187460.1910	526.49	528.99
129	13667455.7354	2187464.5655	526.50	529.00
130	13667480.3497	2187468.9400	526.50	529.00
131	13667504.9725	2187473.2660	526.59	529.09
132	13667529.5987	2187477.5730	526.71	529.21
133	13667554.2249	2187481.8800	526.84	529.34
134	13667578.8511	2187486.1870	526.96	529.46
135	13667603.4773	2187490.4940	527.09	529.59
136	13667628.1035	2187494.8010	527.21	529.71
137	13667652.7297	2187499.1081	527.34	529.84
138	13667677.3559	2187503.4151	527.46	529.96
139	13667701.9829	2187507.7174	527.59	530.09
140	13667726.6103	2187512.0178	527.72	530.22
141	13667751.2376	2187516.3182	527.84	530.34
142	13667775.8650	2187520.6186	527.97	530.47
143	13667800.4923	2187524.9191	528.10	530.60
144	13667825.1197	2187529.2195	528.22	530.72
145	13667849.7470	2187533.5199	528.35	530.85
146	13667874.3744	2187537.8203	528.48	530.98
147	13667899.0017	2187542.1208	528.78	531.28
148	13667923.7281	2187545.7241	529.18	531.68
149	13667948.5791	2187548.4496	529.50	532.00
150	13667971.9125	2187542.3866	529.50	532.00
151	13667987.1852	2187523.0165	529.50	532.00
152	13667987.7917	2187498.5760	529.35	531.85
153	13667983.9931	2187473.8662	528.97	531.47
154	13667980.1946	2187449.1565	528.59	531.09
155	13667976.3519	2187424.4536	528.41	530.91
156	13667972.4944	2187399.7530	528.28	530.78
157	13667968.6368	2187375.0524	528.16	530.66
158	13667964.7793	2187350.3518	528.03	530.53
159	13667960.9217	2187325.6512	527.91	530.41
160	13667957.0642	2187300.9506	527.78	530.28
161	13667953.2066	2187276.2500	527.66	530.16
162	13667949.3491	2187251.5494	527.53	530.03
163	13667945.4916	2187226.8489	527.41	529.91
164	13667941.6340	2187202.1483	527.28	529.78
165	13667937.7765	2187177.4477	527.16	529.66
166	13667933.9189	2187152.7471	527.03	529.53
167	13667930.0614	2187128.0465	526.91	529.41
168	13667926.2038	2187103.3459	526.78	529.28

CONTROL POINT SUMMARY				
CONTROL POINT INDEX NO.	Northing	Easting	TOP OF WASTE (ELEVATION, FEET)	TOP OF TOPSOIL (ELEVATION, FEET)
169	13667922.3463	2187078.6453	526.66	529.16
170	13667918.4887	2187053.9447	526.53	529.03
171	13667914.6312	2187029.2441	526.50	529.00
172	13667910.7737	2187004.5435	526.50	529.00



ATTACHMENT 3

SLOPE STABILITY ANALYSIS

Fly Ash Landfill Closure, Final Cover System Slope Stability Analysis
 CPS Energy
 Calaveras Power Station
 San Antonio, Texas

Objective: Determine the slope stability of the Final Cover System against vaneer slope failure.

Reference Documents:
 Analysis and Design of Vaneer Cover Soils

Koerner & Soong, 2005

Constants and Site Specific Variables Used in Calculation

Default Values	Definition	Value	Units	Reference
W _a	Total weight of active wedge	Calculated	lb	Koerner & Soong, 2005
W _p	Total weight of passive wedge	Calculated	lb	Koerner & Soong, 2005
N _a	Effective force normal to the failure plane of the active wedge	Calculated	psf	Koerner & Soong, 2005
N _p	Effective force normal to the failure plane of the passive wedge	Calculated	psf	Koerner & Soong, 2005
L (3%)	Length of slope measured along the geomembrane	340	ft	Design Drawings
L (20%)	Length of slope measured along the geomembrane	35	ft	Design Drawings
h	Thickness of cover soil	1.5	ft	Design Drawings
g	Unit weight of cover soil	120	pcf	conservative high
b (3%)	Soil slope angle beneath the geomembrane	1.7	degrees	Design Drawings
b (20%)	Soil slope angle beneath the geomembrane	11.6	degrees	Design Drawings
f	Friction angle of the cover soil	20	degrees	conservative low
d	Interface friction angle between cover soil and geocomposite	15	degrees	conservative low
C _a	Adhesive force between cover soil of the active wedge and the geomembrane	Calculated	psf	Koerner & Soong, 2005
c _a	adhesion between cover soil of the active wedge and the geomembrane	50	psf	conservative low
C	Cohesive force along the failure plane of the passive wedge	Calculated	psf	conservative low
c	Cohesion of the cover soil	0	psf	conservative low
FS	Factor of safety against cover soil sliding on the geomembrane	Calculated	NA	Koerner & Soong, 2005

$$FS = \frac{\sum \text{Resisting forces}}{\sum \text{Driving forces}} \quad (1a)$$

$$= \frac{N \tan \delta}{W \sin \beta} = \frac{W \cos \beta \tan \delta}{W \sin \beta} \quad (1b)$$

Hence:

$$\tau_p = c_{ap} + \sigma_n \tan \delta_p \quad (2a)$$

$$\tau_r = c_{ar} + \sigma_n \tan \delta_r \quad (2b)$$

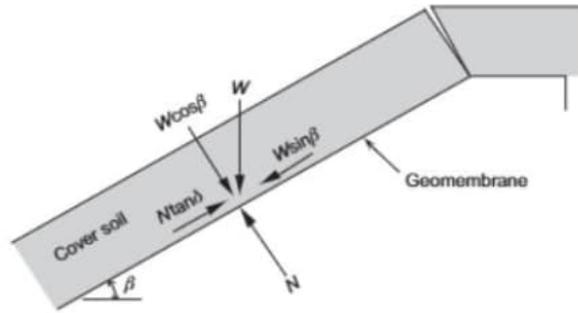


Figure 1. Limit equilibrium forces involved in an infinite slope analysis for a uniformly thick cohesionless cover soil

$$W_A = \gamma h^2 \left(\frac{L}{h} - \frac{1}{\sin \beta} - \frac{\tan \beta}{2} \right) \quad (3)$$

$$N_A = W_A \cos \beta \quad (4)$$

$$E_A \sin \beta = W_A - N_A \cos \beta - \frac{N_A \tan \delta + C_a}{\sin \beta} \sin \beta \quad (6)$$

$$W_P = \frac{\gamma h^2}{\sin 2\beta} \quad (8)$$

$$N_P = W_P + E_P \sin \beta \quad (9)$$

$$C = ch \quad (10)$$

$$E_P \cos \beta = \frac{C + N_P \tan \phi}{\cos \beta} \quad (11)$$

$$E_P = \frac{C + W_P \tan \phi}{\sin \beta \cos \beta} \quad (12)$$

$$a(FS)^2 + b(FS) + c = 0 \quad (13)$$

$$a = (W_A - N_A \cos \beta) \cos \beta$$

$$b = -[(W_A - N_A \cos \beta) \sin \beta \tan \phi$$

$$+ (N_A \tan \delta + C_a) \sin \beta \cos \beta$$

$$+ \sin \beta (C + W_P \tan \phi)] \quad (14)$$

$$FS = \frac{-b + \sqrt{b^2 - 4ac}}{2a} \quad (15)$$

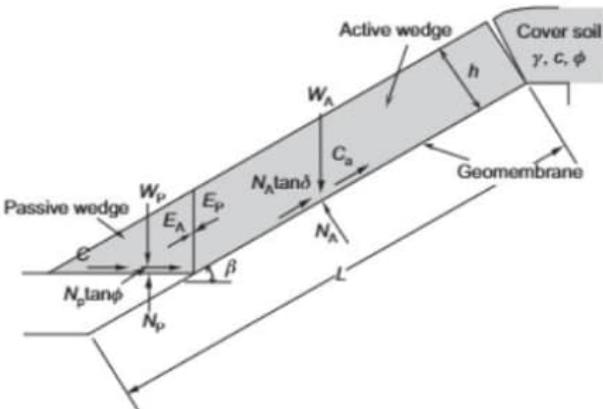


Figure 3. Limit equilibrium forces involved in a finite length slope analysis for a uniformly thick cover soil

ATTACHMENT 3-2 - DRAFT 1/26/2026

Fly Ash Landfill Closure, Final Cover System Slope Stability Analysis
 CPS Energy
 Calaveras Power Station
 San Antonio, Texas

Interface	Safety Factor	Slope (%)	Slope (degrees) b	Slope Length (ft) L	Unit Weight of Soil (pcf) g	Cover Soil Thickness (ft) h	Internal Friction Angle of Soil (degrees), f	Interface friction angle between cover soil and geomembrane (degrees) d	Adhesive force between cover soil of the active wedge and the geomembrane (psf) Ca	Adhesion between cover soil of the active wedge and the geomembrane (psf) ca	Cohesive force along the failure plane of the passive wedge (psf) C	Cohesion of the cover soil (psf) c	Effective force normal to the failure plane of the active wedge (lb) Na	Total weight of active wedge (lb) Wa	Total weight of Passive wedge (lb) Wp	a	b	c
Static Conditions																		
Cover Soil/Geocomposite Drainage Net (3%)	20.8	3%	1.7	340	120	1.5	20	15	14,499	50	2,501	50	52,168	52,192	4504	47	(978)	9.32
Cover Soil/Geocomposite Drainage Net (20%)	3.5	20%	11.3	35	120	1.5	20	15	1,368	50	382	50	4,801	4,896	702	185	(649)	37.15

Notes

Input Values
Calculated Values



ATTACHMENT 4

HELP MODEL RESULTS

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

Title: CPSE Calaveras FAL Final Cover... **Simulated On:** 1/25/2026 17:26

Layer 1

Type 1 - Vertical Percolation Layer (Cover Soil)

SL - Sandy Loam

Material Texture Number 6

Thickness	=	6 inches
Porosity	=	0.453 vol/vol
Field Capacity	=	0.19 vol/vol
Wilting Point	=	0.085 vol/vol
Initial Soil Water Content	=	0.1767 vol/vol
Effective Sat. Hyd. Conductivity	=	7.20E-04 cm/sec

Layer 2

Type 1 - Vertical Percolation Layer

CL - Clay Loam

Material Texture Number 11

Thickness	=	12 inches
Porosity	=	0.464 vol/vol
Field Capacity	=	0.31 vol/vol
Wilting Point	=	0.187 vol/vol
Initial Soil Water Content	=	0.365 vol/vol
Effective Sat. Hyd. Conductivity	=	6.40E-05 cm/sec

Layer 3

Type 2 - Lateral Drainage Layer

Drainage Net (0.5 cm)

Material Texture Number 20

Thickness	=	0.2 inches
Porosity	=	0.85 vol/vol
Field Capacity	=	0.01 vol/vol
Wilting Point	=	0.005 vol/vol
Initial Soil Water Content	=	0.01 vol/vol
Effective Sat. Hyd. Conductivity	=	1.00E+01 cm/sec
Slope	=	3 %
Drainage Length	=	340 ft

Layer 4

Type 4 - Flexible Membrane Liner

LDPE Membrane

Material Texture Number 36

Thickness	=	0.04 inches
Effective Sat. Hyd. Conductivity	=	4.00E-13 cm/sec
FML Pinhole Density	=	0 Holes/Acre
FML Installation Defects	=	0 Holes/Acre
FML Placement Quality	=	3 Good

Layer 5

Type 3 - Barrier Soil Liner

CL - Clay Loam

Material Texture Number 11

Thickness	=	12 inches
Porosity	=	0.464 vol/vol
Field Capacity	=	0.31 vol/vol
Wilting Point	=	0.187 vol/vol
Initial Soil Water Content	=	0.464 vol/vol
Effective Sat. Hyd. Conductivity	=	6.40E-05 cm/sec

Layer 6

Type 1 - Vertical Percolation Layer (Waste)

High-Density Electric Plant Coal Fly Ash

Material Texture Number 30

Thickness	=	252 inches
Porosity	=	0.541 vol/vol
Field Capacity	=	0.187 vol/vol
Wilting Point	=	0.047 vol/vol
Initial Soil Water Content	=	0.187 vol/vol
Effective Sat. Hyd. Conductivity	=	5.00E-05 cm/sec

Layer 7

Type 3 - Barrier Soil Liner

S - Sand

Material Texture Number 2

Thickness	=	12 inches
Porosity	=	0.437 vol/vol
Field Capacity	=	0.062 vol/vol
Wilting Point	=	0.024 vol/vol
Initial Soil Water Content	=	0.437 vol/vol

Effective Sat. Hyd. Conductivity = 5.80E-03 cm/sec

Layer 8

Type 4 - Flexible Membrane Liner

HDPE Membrane

Material Texture Number 35

Thickness	=	0.03 inches
Effective Sat. Hyd. Conductivity	=	2.00E-13 cm/sec
FML Pinhole Density	=	0 Holes/Acre
FML Installation Defects	=	0 Holes/Acre
FML Placement Quality	=	3 Good

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	=	60.8
Fraction of Area Allowing Runoff	=	100 %
Area projected on a horizontal plane	=	21.97 acres
Evaporative Zone Depth	=	18 inches
Initial Water in Evaporative Zone	=	5.44 inches
Upper Limit of Evaporative Storage	=	8.286 inches
Lower Limit of Evaporative Storage	=	2.754 inches
Initial Snow Water	=	0 inches
Initial Water in Layer Materials	=	63.378 inches
Total Initial Water	=	63.378 inches
Total Subsurface Inflow	=	0 inches/year

Note: SCS Runoff Curve Number was calculated by HELP.

Evapotranspiration and Weather Data

Station Latitude	=	29.36 Degrees
Maximum Leaf Area Index	=	5
Start of Growing Season (Julian Date)	=	60 days
End of Growing Season (Julian Date)	=	334 days
Average Wind Speed	=	7 mph
Average 1st Quarter Relative Humidity	=	60 %
Average 2nd Quarter Relative Humidity	=	71 %
Average 3rd Quarter Relative Humidity	=	68 %
Average 4th Quarter Relative Humidity	=	68 %

Note: Evapotranspiration data was obtained for San Antonio, Texas

Normal Mean Monthly Precipitation (inches)

<u>Jan/Jul</u>	<u>Feb/Aug</u>	<u>Mar/Sep</u>	<u>Apr/Oct</u>	<u>May/Nov</u>	<u>Jun/Dec</u>
1.611103	1.659102	1.968858	2.48274	3.354872	3.584565
2.858087	2.55682	3.089317	3.21069	2.372397	1.803775

Note: Precipitation was simulated based on HELP V4 weather simulation for:
Lat/Long: 29.36/-98.3

Normal Mean Monthly Temperature (Degrees Fahrenheit)

<u>Jan/Jul</u>	<u>Feb/Aug</u>	<u>Mar/Sep</u>	<u>Apr/Oct</u>	<u>May/Nov</u>	<u>Jun/Dec</u>
60.4	61.8	68.9	79	85.5	91.3
94.7	93.4	87.8	80.5	73	64.3

Note: Temperature was simulated based on HELP V4 weather simulation for:
Lat/Long: 29.36/-98.3
Solar radiation was simulated based on HELP V4 weather simulation for:
Lat/Long: 29.36/-98.3

Daily Output for Year 1

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.098	0.2968	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.113	0.2873	0.0091	0.0456	1.36E-08	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.116	0.2774	0.0129	0.0643	1.36E-08	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.171	0.2653	0.0102	0.0508	1.36E-08	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.143	0.2552	0.0077	0.0386	1.36E-08	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.164	0.2443	0.0067	0.0334	1.36E-08	0.0000	0.0000	6.80E-09
7			0.00	0.000	0.169	0.2331	0.0062	0.0308	1.36E-08	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.169	0.2221	0.0061	0.0307	1.36E-08	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.077	0.2164	0.0052	0.0259	1.36E-08	0.0000	0.0000	6.80E-09
10			0.42	0.000	0.064	0.2348	0.0041	0.0204	1.36E-08	0.0000	0.0000	6.80E-09
11			0.01	0.000	0.272	0.2187	0.0051	0.0254	1.36E-08	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.053	0.2153	0.0029	0.0147	1.36E-08	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.044	0.2123	0.0021	0.0107	1.36E-08	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.039	0.2096	0.0018	0.0089	1.36E-08	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.036	0.2072	0.0015	0.0075	1.36E-08	0.0000	0.0000	6.80E-09
16			0.10	0.000	0.038	0.2105	0.0013	0.0065	1.36E-08	0.0000	0.0000	6.80E-09
17			0.13	0.000	0.035	0.2154	0.0006	0.0029	1.13E-08	0.0000	0.0000	6.80E-09
18			0.01	0.000	0.033	0.2139	0.0001	0.0003	6.60E-09	0.0000	0.0000	6.80E-09
19			0.05	0.000	0.032	0.2149	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.04	0.000	0.031	0.2157	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.026	0.2142	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.025	0.2128	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.024	0.2115	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.024	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.023	0.2089	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.022	0.2077	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.022	0.2065	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.15	0.000	0.023	0.2138	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.00	0.000	0.022	0.2127	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.00	0.000	0.020	0.2115	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.00	0.000	0.020	0.2105	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32	*	0.00	0.000	0.019	0.2094	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.019	0.2084	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.00	0.000	0.018	0.2073	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.018	0.2063	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36		0.00	0.000	0.018	0.2054	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.67	0.000	0.019	0.2414	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.103	0.2356	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.093	0.2305	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
40		0.00	0.000	0.118	0.2239	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.079	0.2196	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
42	*	0.00	0.000	0.077	0.2153	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43		0.00	0.000	0.059	0.2120	0.0001	0.0005	6.67E-09	0.0000	0.0000	6.80E-09
44		0.00	0.000	0.050	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45		0.00	0.000	0.044	0.2068	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.039	0.2046	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.036	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.034	0.2007	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49		0.00	0.000	0.032	0.1990	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50	*	0.02	0.000	0.050	0.1973	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51		0.04	0.000	0.030	0.1976	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52	*	0.15	0.000	0.033	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53	*	0.00	0.000	0.044	0.1998	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54		0.11	0.000	0.057	0.2045	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.027	0.2030	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56		0.00	0.000	0.026	0.2014	0.0003	0.0014	9.07E-09	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.025	0.2000	0.0000	0.0002	6.46E-09	0.0000	0.0000	6.80E-09
58		0.00	0.000	0.024	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59		0.00	0.000	0.024	0.1974	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60		0.00	0.000	0.023	0.1961	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61		0.00	0.000	0.022	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
62		0.00	0.000	0.022	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63	0.00	0.000	0.021	0.1925	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64	0.00	0.000	0.021	0.1913	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65	0.08	0.000	0.022	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66	0.00	0.000	0.020	0.1934	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67	0.00	0.000	0.020	0.1923	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68	0.00	0.000	0.020	0.1911	0.0003	0.0013	1.36E-08	0.0000	0.0000	6.80E-09
69	0.00	0.000	0.019	0.1901	0.0000	0.0000	1.92E-09	0.0000	0.0000	6.80E-09
70	0.00	0.000	0.019	0.1890	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71	0.00	0.000	0.020	0.1879	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72	0.00	0.000	0.021	0.1867	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73	0.00	0.000	0.021	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74	0.59	0.000	0.025	0.2170	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75	0.00	0.000	0.025	0.2156	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
76	0.00	0.000	0.022	0.2144	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77	0.00	0.000	0.022	0.2131	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78	0.00	0.000	0.022	0.2119	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79	0.00	0.000	0.021	0.2107	0.0002	0.0008	1.11E-08	0.0000	0.0000	6.80E-09
80	0.00	0.000	0.022	0.2095	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81	0.00	0.000	0.020	0.2084	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82	0.00	0.000	0.023	0.2071	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83	0.00	0.000	0.020	0.2060	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84	0.00	0.000	0.027	0.2045	0.0001	0.0004	6.62E-09	0.0000	0.0000	6.80E-09
85	0.00	0.000	0.028	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86	0.09	0.000	0.022	0.2069	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
87	0.19	0.000	0.025	0.2161	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
88	0.00	0.000	0.027	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89	0.00	0.000	0.034	0.2128	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90	0.00	0.000	0.045	0.2103	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91	0.00	0.000	0.036	0.2083	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92	0.00	0.000	0.041	0.2060	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
93	0.32	0.000	0.045	0.2212	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
94	0.09	0.000	0.129	0.2191	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95	0.30	0.000	0.218	0.2235	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96	0.00	0.000	0.107	0.2176	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97	0.02	0.000	0.253	0.2047	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98		0.00	0.000	0.230	0.1920	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99		0.00	0.000	0.111	0.1858	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100		0.00	0.000	0.111	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101		0.00	0.000	0.088	0.1747	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
102	*	0.00	0.000	0.075	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
103		0.00	0.000	0.060	0.1672	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
104		0.00	0.000	0.054	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105		0.00	0.000	0.072	0.1602	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
106	*	0.00	0.000	0.054	0.1572	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
107		0.00	0.000	0.067	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
108		0.02	0.000	0.019	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
109		0.28	0.000	0.044	0.1670	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
110		0.29	0.000	0.041	0.1805	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
111		0.00	0.000	0.041	0.1783	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
112		0.00	0.000	0.051	0.1754	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
113		0.00	0.000	0.042	0.1731	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
114		0.00	0.000	0.069	0.1693	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
115		0.00	0.000	0.067	0.1656	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
116		0.00	0.000	0.056	0.1625	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
117		0.00	0.000	0.040	0.1602	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
118		0.00	0.000	0.068	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
119		0.00	0.000	0.047	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120		0.00	0.000	0.013	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
121		0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
122		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127		0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
128		1.24	0.000	0.049	0.2189	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129		0.67	0.000	0.185	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130		0.26	0.000	0.086	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131		0.00	0.000	0.190	0.2452	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132		0.00	0.000	0.213	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.62	0.000	0.244	0.2544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
134	1.53	0.000	0.221	0.3274	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.00	0.000	0.412	0.3038	0.0024	0.0120	9.07E-09	0.0000	0.0000	6.80E-09
136	0.00	0.000	0.409	0.2790	0.0065	0.0326	1.36E-08	0.0000	0.0000	6.80E-09
137	0.00	0.000	0.201	0.2656	0.0076	0.0378	1.36E-08	0.0000	0.0000	6.80E-09
138	0.00	0.000	0.440	0.2378	0.0117	0.0584	1.36E-08	0.0000	0.0000	6.80E-09
139	0.03	0.000	0.300	0.2201	0.0094	0.0472	1.36E-08	0.0000	0.0000	6.80E-09
140	0.06	0.000	0.250	0.2067	0.0106	0.0532	1.36E-08	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.321	0.1850	0.0161	0.0807	1.36E-08	0.0000	0.0000	6.80E-09
142	0.00	0.000	0.218	0.1729	0.0000	0.0000	1.77E-09	0.0000	0.0000	6.80E-09
143	0.09	0.000	0.260	0.1632	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	0.20	0.000	0.147	0.1663	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.00	0.000	0.087	0.1614	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.00	0.000	0.082	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	0.00	0.000	0.053	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
148	0.00	0.000	0.011	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
149	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	0.69	0.000	0.096	0.1858	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	1.62	0.000	0.068	0.2720	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
155	0.00	0.000	0.205	0.2606	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
156	0.00	0.000	0.256	0.2464	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
157	0.00	0.000	0.288	0.2304	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
158	0.00	0.000	0.283	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.361	0.1947	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.297	0.1782	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.214	0.1663	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
162	0.00	0.000	0.214	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
163	0.00	0.000	0.021	0.1530	0.0008	0.0041	6.95E-09	0.0000	0.0000	6.80E-09
164	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
165	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
166	0.89	0.000	0.119	0.1958	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
167	0.47	0.000	0.189	0.2115	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.00	0.000	0.249	0.1978	0.0000	0.0000	2.13E-09	0.0000	0.0000	6.80E-09
169	0.00	0.000	0.192	0.1871	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
170	0.00	0.000	0.088	0.1822	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	0.00	0.000	0.275	0.1670	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.00	0.000	0.108	0.1610	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.04	0.000	0.125	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.00	0.000	0.042	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.00	0.000	0.016	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.09	0.000	0.027	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.08	0.000	0.044	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.37	0.000	0.125	0.1723	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
179	0.16	0.000	0.087	0.1763	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
180	0.42	0.000	0.142	0.1919	0.0000	0.0000	4.45E-09	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.195	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.00	0.000	0.353	0.1614	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
183	0.00	0.000	0.119	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.00	0.000	0.023	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
187	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
191	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
192	0.59	0.000	0.207	0.1743	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
193	0.00	0.000	0.114	0.1680	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
194	0.00	0.000	0.176	0.1582	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
195	0.00	0.000	0.083	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
196	0.00	0.000	0.008	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.15	0.000	0.028	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
199	0.11	0.000	0.064	0.1625	0.0000	0.0000	4.45E-09	0.0000	0.0000	6.80E-09
200	0.08	0.000	0.126	0.1598	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.059	0.1568	0.0000	0.0000	1.83E-09	0.0000	0.0000	6.80E-09
202	0.02	0.000	0.050	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.92	0.000	0.085	0.2010	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.17	0.000	0.282	0.1946	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
205	0.00	0.000	0.364	0.1744	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.00	0.000	0.243	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.00	0.000	0.112	0.1547	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
208	0.00	0.000	0.021	0.1535	0.0003	0.0016	6.80E-09	0.0000	0.0000	6.80E-09
209	0.00	0.000	0.006	0.1532	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
210	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
211	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
213	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
214	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
215	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
216	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
217	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
218	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
219	0.19	0.000	0.042	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
220	0.00	0.000	0.082	0.1564	0.0000	0.0000	6.34E-09	0.0000	0.0000	6.80E-09
221	0.00	0.000	0.039	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
222	0.00	0.000	0.014	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
223	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
224	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
225	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
226	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
230	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.07	0.000	0.032	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
232	0.32	0.000	0.131	0.1656	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.00	0.000	0.086	0.1608	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.111	0.1546	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
235	0.00	0.000	0.022	0.1534	0.0000	0.0000	4.24E-09	0.0000	0.0000	6.80E-09
236	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
237	0.03	0.000	0.028	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

238	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
242	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
243	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.03	0.000	0.025	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.006	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.82	0.000	0.124	0.1917	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	0.00	0.000	0.185	0.1814	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.00	0.000	0.134	0.1740	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
252	0.01	0.000	0.167	0.1652	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.02	0.000	0.077	0.1619	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.086	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.052	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.015	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
261	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.04	0.000	0.032	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.43	0.000	0.061	0.1738	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.89	0.000	0.069	0.2194	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
266	1.02	0.000	0.126	0.2689	0.0000	0.0000	2.17E-09	0.0000	0.0000	6.80E-09
267	0.10	0.000	0.110	0.2685	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
268	0.00	0.000	0.190	0.2579	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.00	0.000	0.219	0.2458	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
270	0.00	0.000	0.162	0.2368	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.271	0.2217	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
272	0.00	0.000	0.216	0.2097	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.201	0.1985	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.151	0.1901	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
275	0.01	0.000	0.112	0.1846	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.134	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.00	0.000	0.175	0.1676	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.04	0.000	0.248	0.1558	0.0001	0.0005	6.66E-09	0.0000	0.0000	6.80E-09
279	0.00	0.000	0.042	0.1530	0.0017	0.0085	8.04E-09	0.0000	0.0000	6.80E-09
280	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.13	0.000	0.046	0.1579	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.049	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.032	0.1534	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
284	0.00	0.000	0.006	0.1531	0.0000	0.0000	2.17E-09	0.0000	0.0000	6.80E-09
285	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.46	0.000	0.050	0.1761	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.00	0.000	0.054	0.1731	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.084	0.1684	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.00	0.000	0.098	0.1630	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.00	0.000	0.057	0.1598	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
297	0.00	0.000	0.050	0.1570	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
298	0.00	0.000	0.047	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
299	0.58	0.000	0.092	0.1816	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
300	0.28	0.000	0.094	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
301	1.06	0.000	0.110	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
302	0.40	0.000	0.086	0.2625	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
303	0.29	0.000	0.096	0.2733	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
304	3.08	0.069	0.108	0.4243	0.0044	0.0222	2.27E-09	0.0000	0.0000	6.80E-09
305	0.37	0.000	0.163	0.3802	12.8936	1.0012	4.39E-06	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.062	0.3322	5.3639	0.9266	1.82E-06	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.077	0.3166	0.0443	0.2216	1.53E-08	0.0000	0.0000	6.80E-09

308		0.00	0.000	0.110	0.3038	0.0259	0.1294	1.36E-08	0.0000	0.0000	6.80E-09
309		0.00	0.000	0.110	0.2928	0.0181	0.0904	1.36E-08	0.0000	0.0000	6.80E-09
310		0.00	0.000	0.047	0.2863	0.0148	0.0740	1.36E-08	0.0000	0.0000	6.80E-09
311		0.00	0.000	0.061	0.2797	0.0118	0.0589	1.36E-08	0.0000	0.0000	6.80E-09
312		0.00	0.000	0.068	0.2735	0.0093	0.0466	1.36E-08	0.0000	0.0000	6.80E-09
313		0.00	0.000	0.060	0.2683	0.0070	0.0348	1.36E-08	0.0000	0.0000	6.80E-09
314		0.00	0.000	0.069	0.2626	0.0066	0.0329	1.36E-08	0.0000	0.0000	6.80E-09
315		0.00	0.000	0.037	0.2590	0.0057	0.0286	1.36E-08	0.0000	0.0000	6.80E-09
316		0.00	0.000	0.085	0.2530	0.0048	0.0240	1.36E-08	0.0000	0.0000	6.80E-09
317		0.00	0.000	0.039	0.2495	0.0045	0.0227	1.36E-08	0.0000	0.0000	6.80E-09
318		0.00	0.000	0.054	0.2453	0.0045	0.0223	1.36E-08	0.0000	0.0000	6.80E-09
319		0.00	0.000	0.095	0.2390	0.0039	0.0196	1.36E-08	0.0000	0.0000	6.80E-09
320		0.00	0.000	0.099	0.2325	0.0035	0.0175	1.36E-08	0.0000	0.0000	6.80E-09
321		0.10	0.000	0.087	0.2321	0.0040	0.0200	1.36E-08	0.0000	0.0000	6.80E-09
322		0.39	0.000	0.150	0.2446	0.0036	0.0180	1.36E-08	0.0000	0.0000	6.80E-09
323		0.00	0.000	0.064	0.2404	0.0025	0.0126	1.36E-08	0.0000	0.0000	6.80E-09
324		0.00	0.000	0.094	0.2346	0.0022	0.0108	1.36E-08	0.0000	0.0000	6.80E-09
325		0.03	0.000	0.097	0.2306	0.0018	0.0089	1.36E-08	0.0000	0.0000	6.80E-09
326		0.02	0.000	0.041	0.2291	0.0009	0.0044	1.36E-08	0.0000	0.0000	6.80E-09
327	*	0.12	0.000	0.051	0.2299	0.0009	0.0047	1.36E-08	0.0000	0.0000	6.80E-09
328		0.00	0.000	0.087	0.2278	0.0004	0.0019	1.34E-08	0.0000	0.0000	6.80E-09
329		0.00	0.000	0.086	0.2231	0.0001	0.0006	6.70E-09	0.0000	0.0000	6.80E-09
330		0.00	0.000	0.100	0.2175	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331		0.00	0.000	0.093	0.2124	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332		0.00	0.000	0.107	0.2064	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333		0.00	0.000	0.078	0.2021	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334		0.11	0.000	0.084	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335		0.15	0.000	0.075	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336		0.01	0.000	0.045	0.2058	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337		0.61	0.000	0.055	0.2364	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338	*	0.00	0.000	0.042	0.2340	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339		0.00	0.000	0.058	0.2307	0.0001	0.0007	6.71E-09	0.0000	0.0000	6.80E-09
340		0.00	0.000	0.035	0.2288	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341		0.00	0.000	0.060	0.2254	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342		0.00	0.000	0.036	0.2234	0.0001	0.0005	6.68E-09	0.0000	0.0000	6.80E-09

343	*	0.09	0.000	0.028	0.2245	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344	*	0.00	0.000	0.024	0.2256	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
345		0.43	0.000	0.092	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
346		0.00	0.000	0.076	0.2403	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
347		0.69	0.000	0.043	0.2762	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
348		0.00	0.000	0.052	0.2733	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.00	0.000	0.052	0.2704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.060	0.2672	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
351		0.01	0.000	0.043	0.2651	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
352		0.00	0.000	0.061	0.2617	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.059	0.2584	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354		0.00	0.000	0.057	0.2552	0.0002	0.0012	9.07E-09	0.0000	0.0000	6.80E-09
355		0.00	0.000	0.071	0.2513	0.0000	0.0000	2.16E-09	0.0000	0.0000	6.80E-09
356		0.00	0.000	0.134	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357		0.00	0.000	0.079	0.2395	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.00	0.000	0.050	0.2367	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359	*	1.25	0.000	0.025	0.2377	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360	*	0.03	0.000	0.027	0.2388	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361		0.00	0.000	0.000	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362		0.00	0.000	0.037	0.3025	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.32	0.000	0.110	0.3143	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364		0.00	0.000	0.092	0.3092	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365		0.00	0.000	0.163	0.3002	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 1			
	inches	cubic feet	percent
Precipitation	30.79	2,455,299.2	100.00
Runoff	0.069	5,491.9	0.22
Evapotranspiration	27.139	2,164,388.5	88.15
Drainage Collected from Layer 3	3.6161	288,389.1	11.75
Percolation/Leakage through Layer 5	0.000007	0.5565	0.00
Average Head on Top of Layer 4	0.0509	---	---

Percolation/Leakage through Layer 8	0.000002	0.1980	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.0372	-2,970.6	-0.12
Soil Water at Start of Year	63.3783	5,054,490.1	205.86
Soil Water at End of Year	63.3411	5,051,519.6	205.74
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

Daily Output for Year 2

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.15	0.000	0.077	0.3042	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2			0.24	0.000	0.072	0.3121	0.0038	0.0190	9.07E-09	0.0000	0.0000	6.80E-09
3	*		0.29	0.000	0.025	0.3100	0.0116	0.0578	1.36E-08	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.045	0.3181	0.0111	0.0554	1.36E-08	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.131	0.3082	0.0093	0.0465	1.36E-08	0.0000	0.0000	6.80E-09
6			0.10	0.000	0.141	0.3031	0.0099	0.0495	1.36E-08	0.0000	0.0000	6.80E-09
7			0.11	0.000	0.086	0.3030	0.0060	0.0301	1.36E-08	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.075	0.2985	0.0004	0.0022	8.81E-09	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.109	0.2912	0.0039	0.0195	1.36E-08	0.0000	0.0000	6.80E-09
10			0.00	0.000	0.055	0.2860	0.0079	0.0393	1.36E-08	0.0000	0.0000	6.80E-09
11	*		0.00	0.000	0.055	0.2809	0.0074	0.0368	1.36E-08	0.0000	0.0000	6.80E-09
12	*		0.00	0.000	0.038	0.2773	0.0057	0.0283	1.36E-08	0.0000	0.0000	6.80E-09
13	*		0.00	0.000	0.000	0.2757	0.0056	0.0280	1.36E-08	0.0000	0.0000	6.80E-09
14	*		0.00	0.000	0.057	0.2709	0.0059	0.0294	1.36E-08	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.071	0.2656	0.0051	0.0254	1.36E-08	0.0000	0.0000	6.80E-09
16			0.28	0.000	0.055	0.2773	0.0039	0.0196	1.36E-08	0.0000	0.0000	6.80E-09
17			0.39	0.000	0.069	0.2941	0.0040	0.0200	1.36E-08	0.0000	0.0000	6.80E-09
18	*		0.19	0.000	0.058	0.2940	0.0043	0.0217	1.36E-08	0.0000	0.0000	6.80E-09
19			0.23	0.000	0.081	0.3078	0.0040	0.0198	1.36E-08	0.0000	0.0000	6.80E-09
20			0.20	0.000	0.114	0.3119	0.0033	0.0165	1.36E-08	0.0000	0.0000	6.80E-09
21			0.15	0.000	0.146	0.3111	0.0028	0.0142	1.36E-08	0.0000	0.0000	6.80E-09
22			0.02	0.000	0.125	0.3045	0.0037	0.0184	1.36E-08	0.0000	0.0000	6.80E-09
23			0.01	0.000	0.140	0.2969	0.0011	0.0053	1.06E-08	0.0000	0.0000	6.80E-09
24			0.01	0.000	0.098	0.2918	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.160	0.2824	0.0010	0.0052	1.13E-08	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.084	0.2765	0.0048	0.0237	1.36E-08	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.073	0.2708	0.0051	0.0254	1.36E-08	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.133	0.2620	0.0059	0.0294	1.36E-08	0.0000	0.0000	6.80E-09
29		0.00	0.000	0.081	0.2560	0.0053	0.0263	1.36E-08	0.0000	0.0000	6.80E-09
30		0.00	0.000	0.135	0.2468	0.0061	0.0305	1.36E-08	0.0000	0.0000	6.80E-09
31		0.00	0.000	0.157	0.2368	0.0045	0.0227	1.36E-08	0.0000	0.0000	6.80E-09
32		0.43	0.000	0.146	0.2509	0.0056	0.0281	1.36E-08	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.209	0.2379	0.0048	0.0241	1.36E-08	0.0000	0.0000	6.80E-09
34		0.00	0.000	0.264	0.2216	0.0059	0.0293	1.36E-08	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.116	0.2141	0.0040	0.0201	1.36E-08	0.0000	0.0000	6.80E-09
36		0.00	0.000	0.076	0.2092	0.0027	0.0136	1.36E-08	0.0000	0.0000	6.80E-09
37		0.00	0.000	0.059	0.2054	0.0021	0.0104	1.36E-08	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.050	0.2022	0.0017	0.0085	1.36E-08	0.0000	0.0000	6.80E-09
39	*	0.00	0.000	0.044	0.1994	0.0014	0.0072	1.36E-08	0.0000	0.0000	6.80E-09
40	*	0.59	0.000	0.023	0.2002	0.0011	0.0053	1.36E-08	0.0000	0.0000	6.80E-09
41	*	0.00	0.000	0.000	0.2013	0.0001	0.0003	6.60E-09	0.0000	0.0000	6.80E-09
42		0.08	0.000	0.071	0.2308	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43		0.11	0.000	0.129	0.2300	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44		0.03	0.000	0.042	0.2293	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45		2.02	0.000	0.039	0.3391	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.13	0.000	0.213	0.3335	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.231	0.3094	0.0387	0.1936	1.50E-08	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.165	0.2943	0.0250	0.1248	1.36E-08	0.0000	0.0000	6.80E-09
49		0.00	0.000	0.199	0.2797	0.0127	0.0635	1.36E-08	0.0000	0.0000	6.80E-09
50		0.00	0.000	0.125	0.2699	0.0108	0.0542	1.36E-08	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.297	0.2507	0.0096	0.0479	1.36E-08	0.0000	0.0000	6.80E-09
52		0.00	0.000	0.222	0.2364	0.0072	0.0357	1.36E-08	0.0000	0.0000	6.80E-09
53		0.00	0.000	0.185	0.2239	0.0083	0.0413	1.36E-08	0.0000	0.0000	6.80E-09
54		0.00	0.000	0.077	0.2178	0.0068	0.0339	1.36E-08	0.0000	0.0000	6.80E-09
55		0.40	0.000	0.061	0.2353	0.0051	0.0255	1.36E-08	0.0000	0.0000	6.80E-09
56		0.32	0.000	0.051	0.2489	0.0038	0.0190	1.36E-08	0.0000	0.0000	6.80E-09
57		0.03	0.000	0.122	0.2430	0.0034	0.0171	1.36E-08	0.0000	0.0000	6.80E-09
58		0.00	0.000	0.148	0.2337	0.0042	0.0210	1.36E-08	0.0000	0.0000	6.80E-09
59		0.00	0.000	0.185	0.2225	0.0033	0.0165	1.36E-08	0.0000	0.0000	6.80E-09
60		0.00	0.000	0.077	0.2177	0.0021	0.0107	1.36E-08	0.0000	0.0000	6.80E-09
61		0.07	0.000	0.060	0.2177	0.0015	0.0075	1.36E-08	0.0000	0.0000	6.80E-09
62		0.18	0.000	0.051	0.2244	0.0014	0.0070	1.36E-08	0.0000	0.0000	6.80E-09

63		0.03	0.000	0.045	0.2233	0.0004	0.0018	1.12E-08	0.0000	0.0000	6.80E-09
64		0.00	0.000	0.040	0.2211	0.0001	0.0005	6.66E-09	0.0000	0.0000	6.80E-09
65		0.00	0.000	0.037	0.2190	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66		0.00	0.000	0.035	0.2171	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67		0.00	0.000	0.032	0.2153	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68		0.00	0.000	0.031	0.2136	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69		0.00	0.000	0.030	0.2119	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70		0.00	0.000	0.028	0.2104	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71		0.01	0.000	0.028	0.2095	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72		0.18	0.000	0.028	0.2180	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73		0.00	0.000	0.027	0.2164	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74		0.00	0.000	0.026	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75		0.68	0.000	0.026	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
76		0.14	0.000	0.106	0.2535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77		0.03	0.000	0.176	0.2451	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78		0.00	0.000	0.142	0.2372	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79		0.00	0.000	0.079	0.2328	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80		0.00	0.000	0.142	0.2250	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81	*	0.03	0.000	0.106	0.2210	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82		0.03	0.000	0.061	0.2191	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83		0.00	0.000	0.048	0.2164	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84		0.42	0.000	0.047	0.2372	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85		0.33	0.000	0.232	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86		0.06	0.000	0.155	0.2375	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
87		0.55	0.000	0.231	0.2549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
88		0.00	0.000	0.246	0.2413	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89		0.00	0.000	0.327	0.2231	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90		0.00	0.000	0.195	0.2123	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91		0.13	0.000	0.085	0.2145	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92		0.00	0.000	0.069	0.2107	0.0000	0.0002	4.54E-09	0.0000	0.0000	6.80E-09
93		0.00	0.000	0.057	0.2075	0.0000	0.0000	1.86E-09	0.0000	0.0000	6.80E-09
94		0.00	0.000	0.058	0.2043	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95		0.00	0.000	0.048	0.2016	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96		0.00	0.000	0.054	0.1986	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97		0.00	0.000	0.042	0.1963	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98	0.00	0.000	0.038	0.1942	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99	0.08	0.000	0.037	0.1964	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100	0.00	0.000	0.034	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101	0.02	0.000	0.043	0.1933	0.0000	0.0001	2.27E-09	0.0000	0.0000	6.80E-09
102	0.04	0.000	0.052	0.1924	0.0000	0.0000	3.98E-09	0.0000	0.0000	6.80E-09
103	0.00	0.000	0.035	0.1905	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
104	0.00	0.000	0.035	0.1887	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105	0.00	0.000	0.036	0.1867	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
106	0.00	0.000	0.047	0.1841	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
107	0.00	0.000	0.050	0.1813	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
108	0.00	0.000	0.041	0.1791	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
109	0.05	0.000	0.045	0.1795	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
110	0.89	0.000	0.044	0.2267	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
111	0.00	0.000	0.288	0.2107	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
112	0.00	0.000	0.040	0.2085	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
113	0.00	0.000	0.044	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
114	0.00	0.000	0.075	0.2019	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
115	0.00	0.000	0.061	0.1985	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
116	0.51	0.000	0.041	0.2244	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
117	0.00	0.000	0.271	0.2094	0.0003	0.0016	2.27E-09	0.0000	0.0000	6.80E-09
118	0.24	0.000	0.292	0.2062	0.0000	0.0000	4.51E-09	0.0000	0.0000	6.80E-09
119	0.00	0.000	0.276	0.1909	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120	0.03	0.000	0.144	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
121	0.00	0.000	0.101	0.1789	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
122	0.42	0.000	0.101	0.1966	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123	0.01	0.000	0.149	0.1890	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124	0.04	0.000	0.140	0.1832	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125	0.01	0.000	0.139	0.1759	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126	0.01	0.000	0.179	0.1666	0.0004	0.0022	4.54E-09	0.0000	0.0000	6.80E-09
127	0.00	0.000	0.134	0.1592	0.0000	0.0000	2.25E-09	0.0000	0.0000	6.80E-09
128	0.00	0.000	0.094	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129	0.00	0.000	0.012	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131	0.32	0.000	0.045	0.1684	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132	0.19	0.000	0.071	0.1748	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.01	0.000	0.130	0.1682	0.0000	0.0000	8.88E-09	0.0000	0.0000	6.80E-09
134	0.63	0.000	0.129	0.1959	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.67	0.000	0.084	0.2287	0.0000	0.0000	3.94E-09	0.0000	0.0000	6.80E-09
136	0.01	0.000	0.188	0.2189	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
137	0.00	0.000	0.277	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
138	0.20	0.000	0.305	0.1978	0.0000	0.0002	4.54E-09	0.0000	0.0000	6.80E-09
139	0.00	0.000	0.298	0.1813	0.0000	0.0000	1.90E-09	0.0000	0.0000	6.80E-09
140	0.82	0.000	0.266	0.2120	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
141	0.28	0.000	0.335	0.2088	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
142	0.00	0.000	0.186	0.1984	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
143	0.00	0.000	0.167	0.1892	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	0.00	0.000	0.350	0.1697	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.00	0.000	0.250	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.00	0.000	0.041	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	0.00	0.000	0.010	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
148	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
149	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	1.15	0.000	0.116	0.2104	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.00	0.000	0.159	0.2015	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.00	0.000	0.192	0.1908	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	2.74	0.000	0.265	0.3283	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	0.81	0.000	0.115	0.3514	0.0213	0.1063	7.23E-09	0.0000	0.0000	6.80E-09
155	0.00	0.000	0.379	0.3124	0.8740	0.4653	2.99E-07	0.0000	0.0000	6.80E-09
156	0.00	0.000	0.186	0.2971	0.0191	0.0955	1.36E-08	0.0000	0.0000	6.80E-09
157	0.00	0.000	0.259	0.2769	0.0215	0.1076	1.36E-08	0.0000	0.0000	6.80E-09
158	0.00	0.000	0.437	0.2491	0.0139	0.0695	1.36E-08	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.420	0.2230	0.0097	0.0485	1.36E-08	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.241	0.2070	0.0101	0.0505	1.36E-08	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.365	0.1821	0.0182	0.0911	1.39E-08	0.0000	0.0000	6.80E-09
162	0.00	0.000	0.243	0.1686	0.0000	0.0000	2.03E-09	0.0000	0.0000	6.80E-09
163	0.00	0.000	0.191	0.1580	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
164	0.00	0.000	0.090	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
165	0.06	0.000	0.027	0.1549	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
166	0.09	0.000	0.046	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
167	0.00	0.000	0.032	0.1553	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.00	0.000	0.031	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
169	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
170	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	0.04	0.000	0.027	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.00	0.000	0.006	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
179	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
180	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
183	0.14	0.000	0.052	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.37	0.000	0.127	0.1710	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.23	0.000	0.161	0.1747	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.48	0.000	0.206	0.1900	0.0000	0.0000	1.80E-09	0.0000	0.0000	6.80E-09
187	0.00	0.000	0.257	0.1758	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.00	0.000	0.197	0.1648	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.00	0.000	0.192	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.00	0.000	0.014	0.1534	0.0000	0.0002	6.80E-09	0.0000	0.0000	6.80E-09
191	0.06	0.000	0.028	0.1553	0.0000	0.0000	1.56E-09	0.0000	0.0000	6.80E-09
192	0.16	0.000	0.040	0.1617	0.0001	0.0004	2.27E-09	0.0000	0.0000	6.80E-09
193	0.08	0.000	0.113	0.1597	0.0000	0.0000	1.09E-08	0.0000	0.0000	6.80E-09
194	0.00	0.000	0.063	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
195	0.00	0.000	0.039	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
196	0.00	0.000	0.011	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.004	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
199	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
200	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	0.05	0.000	0.026	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.02	0.000	0.024	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.08	0.000	0.028	0.1567	0.0000	0.0000	8.48E-10	0.0000	0.0000	6.80E-09
205	0.00	0.000	0.020	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.00	0.000	0.036	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
208	0.49	0.000	0.128	0.1731	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
209	0.00	0.000	0.171	0.1636	0.0000	0.0000	6.76E-09	0.0000	0.0000	6.80E-09
210	0.05	0.000	0.162	0.1575	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
211	0.00	0.000	0.039	0.1553	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.033	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
213	0.12	0.000	0.032	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
214	0.08	0.000	0.069	0.1591	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
215	0.21	0.000	0.119	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
216	0.00	0.000	0.132	0.1570	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
217	0.00	0.000	0.057	0.1538	0.0000	0.0000	4.50E-09	0.0000	0.0000	6.80E-09
218	0.00	0.000	0.011	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
219	0.00	0.000	0.004	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
220	0.11	0.000	0.036	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
221	0.30	0.000	0.077	0.1695	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
222	0.00	0.000	0.121	0.1628	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
223	0.00	0.000	0.148	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
224	0.07	0.000	0.048	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
225	0.57	0.000	0.057	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
226	0.00	0.000	0.114	0.1781	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.167	0.1688	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.072	0.1648	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.174	0.1551	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
230	0.00	0.000	0.037	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
232	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
235	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
236	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
237	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

238	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.41	0.000	0.071	0.1721	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.36	0.000	0.078	0.1875	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	0.22	0.000	0.097	0.1941	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
242	0.00	0.000	0.194	0.1833	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
243	0.00	0.000	0.106	0.1775	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.00	0.000	0.135	0.1700	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.02	0.000	0.193	0.1606	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.00	0.000	0.105	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.029	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.03	0.000	0.023	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	0.00	0.000	0.005	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.51	0.000	0.115	0.1751	0.0000	0.0000	6.80E-09	0.0000	0.0000	6.80E-09
252	0.00	0.000	0.068	0.1713	0.0000	0.0000	2.16E-09	0.0000	0.0000	6.80E-09
253	0.00	0.000	0.124	0.1644	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.160	0.1555	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.031	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.010	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.17	0.000	0.029	0.1608	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.01	0.000	0.085	0.1564	0.0000	0.0000	6.34E-09	0.0000	0.0000	6.80E-09
261	0.12	0.000	0.063	0.1593	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.08	0.000	0.072	0.1595	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.066	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.00	0.000	0.031	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.00	0.000	0.012	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
266	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
267	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
268	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
270	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
272	0.92	0.000	0.078	0.1998	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.228	0.1871	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.203	0.1759	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
275	1.13	0.000	0.323	0.2206	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	0.99	0.000	0.131	0.2683	0.0000	0.0000	6.67E-09	0.0000	0.0000	6.80E-09
277	1.02	0.000	0.205	0.3135	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.01	0.000	0.172	0.3044	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.00	0.000	0.119	0.2978	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
280	0.78	0.000	0.294	0.3247	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.01	0.000	0.091	0.3182	0.0036	0.0182	4.54E-09	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.171	0.3076	0.0061	0.0305	1.36E-08	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.238	0.2911	0.0118	0.0590	1.36E-08	0.0000	0.0000	6.80E-09
284	1.07	0.000	0.223	0.3336	0.0166	0.0829	1.36E-08	0.0000	0.0000	6.80E-09
285	0.02	0.000	0.199	0.3189	0.0136	0.0682	1.36E-08	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.111	0.3066	0.0231	0.1153	1.36E-08	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.095	0.2956	0.0211	0.1053	1.36E-08	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.140	0.2830	0.0182	0.0908	1.36E-08	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.199	0.2685	0.0134	0.0669	1.36E-08	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.200	0.2551	0.0084	0.0421	1.36E-08	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.201	0.2419	0.0081	0.0405	1.36E-08	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.075	0.2359	0.0065	0.0323	1.36E-08	0.0000	0.0000	6.80E-09
293	0.11	0.000	0.095	0.2349	0.0068	0.0337	1.36E-08	0.0000	0.0000	6.80E-09
294	0.84	0.000	0.251	0.2663	0.0053	0.0265	1.36E-08	0.0000	0.0000	6.80E-09
295	0.00	0.000	0.187	0.2544	0.0050	0.0250	1.36E-08	0.0000	0.0000	6.80E-09
296	0.00	0.000	0.111	0.2469	0.0051	0.0257	1.36E-08	0.0000	0.0000	6.80E-09
297	0.00	0.000	0.124	0.2391	0.0036	0.0179	1.36E-08	0.0000	0.0000	6.80E-09
298	0.00	0.000	0.116	0.2319	0.0027	0.0136	1.36E-08	0.0000	0.0000	6.80E-09
299	0.00	0.000	0.125	0.2244	0.0023	0.0113	1.36E-08	0.0000	0.0000	6.80E-09
300	0.00	0.000	0.081	0.2194	0.0017	0.0084	1.36E-08	0.0000	0.0000	6.80E-09
301	0.00	0.000	0.103	0.2136	0.0005	0.0027	1.06E-08	0.0000	0.0000	6.80E-09
302	0.00	0.000	0.073	0.2095	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
303	0.00	0.000	0.059	0.2063	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
304	0.00	0.000	0.061	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
305	0.00	0.000	0.053	0.2000	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.045	0.1975	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.040	0.1952	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

308	0.00	0.000	0.037	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
309	0.78	0.000	0.057	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
310	0.00	0.000	0.191	0.2228	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
311	0.00	0.000	0.175	0.2130	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
312	0.00	0.000	0.139	0.2053	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
313	0.00	0.000	0.078	0.2010	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
314	0.00	0.000	0.060	0.1976	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
315	0.00	0.000	0.053	0.1947	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
316	0.00	0.000	0.046	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
317	0.00	0.000	0.045	0.1896	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
318	0.00	0.000	0.042	0.1873	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
319	0.00	0.000	0.045	0.1848	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
320	0.00	0.000	0.041	0.1825	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
321	0.00	0.000	0.051	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
322	0.00	0.000	0.052	0.1767	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
323	0.00	0.000	0.049	0.1740	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
324	0.00	0.000	0.049	0.1713	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325	0.00	0.000	0.038	0.1691	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326	0.00	0.000	0.049	0.1664	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327	0.00	0.000	0.039	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328	0.32	0.000	0.062	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329	0.51	0.000	0.074	0.2028	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330	0.00	0.000	0.040	0.2006	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331	0.09	0.000	0.064	0.2019	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332	0.00	0.000	0.048	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333	0.00	0.000	0.059	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334	0.00	0.000	0.043	0.1936	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335	0.00	0.000	0.019	0.1926	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336	0.00	0.000	0.019	0.1915	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337	0.06	0.000	0.033	0.1931	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338	0.00	0.000	0.018	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339	0.00	0.000	0.018	0.1911	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
340	0.00	0.000	0.017	0.1902	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341	0.00	0.000	0.017	0.1892	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342	0.33	0.000	0.031	0.2060	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

343		0.00	0.000	0.256	0.1918	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344		0.00	0.000	0.016	0.1908	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
345		0.00	0.000	0.016	0.1899	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
346		0.00	0.000	0.016	0.1891	0.0000	0.0001	7.94E-09	0.0000	0.0000	6.80E-09
347		0.00	0.000	0.016	0.1882	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
348	*	0.00	0.000	0.016	0.1873	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.00	0.000	0.019	0.1865	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.015	0.1857	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
351		0.00	0.000	0.015	0.1848	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
352		0.00	0.000	0.015	0.1840	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.015	0.1832	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354		0.00	0.000	0.014	0.1824	0.0001	0.0004	6.65E-09	0.0000	0.0000	6.80E-09
355		0.00	0.000	0.014	0.1816	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356		0.00	0.000	0.014	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357		0.00	0.000	0.014	0.1800	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.00	0.000	0.014	0.1793	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359		0.00	0.000	0.014	0.1785	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360		0.00	0.000	0.013	0.1778	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361		0.00	0.000	0.013	0.1770	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362		0.00	0.000	0.013	0.1763	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.013	0.1756	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364	*	0.00	0.000	0.000	0.1756	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365	*	0.00	0.000	0.013	0.1749	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 2			
	inches	cubic feet	percent
Precipitation	34.30	2,735,252.3	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	32.962	2,628,728.1	96.11
Drainage Collected from Layer 3	3.5909	286,380.4	10.47
Percolation/Leakage through Layer 5	0.000002	0.1222	0.00
Average Head on Top of Layer 4	0.0041	---	---

Percolation/Leakage through Layer 8	0.000002	0.1980	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-2.2552	-179,856.4	-6.58
Soil Water at Start of Year	63.3411	5,051,519.6	184.68
Soil Water at End of Year	61.0858	4,871,663.2	178.11
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

Daily Output for Year 3

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1	*		0.00	0.000	0.013	0.1742	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2	*		0.00	0.000	0.013	0.1735	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
3	*		0.00	0.000	0.013	0.1728	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
4	*		0.00	0.000	0.010	0.1722	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
5	*		0.04	0.000	0.021	0.1731	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6	*		0.19	0.000	0.016	0.1742	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7	*		0.00	0.000	0.012	0.1753	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8	*		0.05	0.000	0.033	0.1764	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9	*		0.11	0.000	0.013	0.1775	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10	*		0.01	0.000	0.020	0.1786	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11	*		0.11	0.000	0.013	0.1797	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.13	0.000	0.031	0.1982	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13	*		0.00	0.000	0.000	0.1982	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14	*		0.00	0.000	0.027	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.011	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.27	0.000	0.024	0.2094	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.09	0.000	0.093	0.2091	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.075	0.2050	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.00	0.000	0.080	0.2005	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.00	0.000	0.055	0.1975	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.065	0.1940	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.33	0.000	0.066	0.2086	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.050	0.2058	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.066	0.2021	0.0000	0.0001	2.27E-09	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.038	0.2000	0.0000	0.0000	4.05E-09	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.061	0.1966	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.052	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28	0.00	0.000	0.045	0.1912	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29	0.00	0.000	0.040	0.1890	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30	0.00	0.000	0.036	0.1870	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31	0.00	0.000	0.033	0.1852	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32	0.00	0.000	0.031	0.1835	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33	0.00	0.000	0.029	0.1818	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34	0.00	0.000	0.027	0.1803	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35	0.05	0.000	0.039	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36	0.00	0.000	0.025	0.1797	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37	0.45	0.000	0.037	0.2027	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38	0.50	0.000	0.036	0.2287	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39	0.00	0.000	0.132	0.2214	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
40	0.00	0.000	0.123	0.2145	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41	0.07	0.000	0.093	0.2135	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
42	0.02	0.000	0.098	0.2091	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43	0.00	0.000	0.142	0.2012	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44	0.00	0.000	0.068	0.1974	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45	0.00	0.000	0.070	0.1935	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46	0.00	0.000	0.053	0.1906	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47	0.00	0.000	0.046	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48	0.00	0.000	0.040	0.1858	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49	0.18	0.000	0.049	0.1933	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50	0.98	0.000	0.046	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51	0.00	0.000	0.086	0.2406	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52	0.00	0.000	0.109	0.2345	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53	0.00	0.000	0.124	0.2277	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54	0.00	0.000	0.152	0.2192	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55	0.00	0.000	0.123	0.2124	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56	0.00	0.000	0.097	0.2070	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57	0.00	0.000	0.074	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
58	0.00	0.000	0.057	0.1997	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59	0.15	0.000	0.061	0.2047	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60	0.00	0.000	0.043	0.2024	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61	0.51	0.000	0.052	0.2276	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
62	0.05	0.000	0.100	0.2246	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63		0.00	0.000	0.116	0.2182	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64		0.00	0.000	0.161	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65		0.00	0.000	0.074	0.2051	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66		0.53	0.000	0.082	0.2302	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67		0.00	0.000	0.138	0.2225	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68		0.00	0.000	0.129	0.2153	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69		0.00	0.000	0.111	0.2091	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70	*	0.00	0.000	0.077	0.2048	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71	*	0.00	0.000	0.000	0.2048	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72	*	0.00	0.000	0.043	0.2024	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73		0.00	0.000	0.050	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74		0.00	0.000	0.044	0.1972	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75		0.00	0.000	0.040	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
76		0.00	0.000	0.039	0.1928	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77		0.00	0.000	0.036	0.1908	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78		0.86	0.000	0.045	0.2363	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79		0.03	0.000	0.175	0.2283	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80		0.02	0.000	0.190	0.2187	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81		0.51	0.000	0.221	0.2347	0.0000	0.0000	4.94E-09	0.0000	0.0000	6.80E-09
82		0.13	0.000	0.106	0.2361	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83		0.13	0.000	0.156	0.2345	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84		0.06	0.000	0.076	0.2337	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85	*	0.60	0.000	0.050	0.2348	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86		0.00	0.000	0.074	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
87		0.01	0.000	0.140	0.2526	0.0000	0.0000	4.47E-09	0.0000	0.0000	6.80E-09
88	*	0.00	0.000	0.097	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89		0.31	0.000	0.126	0.2576	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90		0.17	0.000	0.162	0.2582	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91		0.00	0.000	0.152	0.2498	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92		0.00	0.000	0.092	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
93		0.00	0.000	0.050	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
94	*	0.00	0.000	0.046	0.2393	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95		0.00	0.000	0.181	0.2292	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96		0.05	0.000	0.067	0.2286	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97		2.96	0.000	0.098	0.3874	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98		0.00	0.000	0.189	0.3224	4.1909	0.8323	1.43E-06	0.0000	0.0000	6.80E-09
99		0.02	0.000	0.162	0.3074	0.0519	0.2592	2.14E-08	0.0000	0.0000	6.80E-09
100		0.00	0.000	0.115	0.2949	0.0228	0.1138	1.36E-08	0.0000	0.0000	6.80E-09
101		0.00	0.000	0.132	0.2833	0.0165	0.0822	1.36E-08	0.0000	0.0000	6.80E-09
102	*	0.00	0.000	0.073	0.2764	0.0106	0.0532	1.36E-08	0.0000	0.0000	6.80E-09
103	*	0.01	0.000	0.102	0.2686	0.0101	0.0507	1.36E-08	0.0000	0.0000	6.80E-09
104	*	0.00	0.000	0.000	0.2668	0.0071	0.0354	1.36E-08	0.0000	0.0000	6.80E-09
105		0.00	0.000	0.043	0.2629	0.0051	0.0253	1.36E-08	0.0000	0.0000	6.80E-09
106		0.00	0.000	0.156	0.2528	0.0056	0.0282	1.36E-08	0.0000	0.0000	6.80E-09
107		0.00	0.000	0.182	0.2416	0.0040	0.0202	1.36E-08	0.0000	0.0000	6.80E-09
108		0.00	0.000	0.107	0.2348	0.0034	0.0169	1.36E-08	0.0000	0.0000	6.80E-09
109		0.00	0.000	0.150	0.2253	0.0039	0.0192	1.36E-08	0.0000	0.0000	6.80E-09
110		0.51	0.000	0.095	0.2468	0.0048	0.0240	1.36E-08	0.0000	0.0000	6.80E-09
111		0.00	0.000	0.102	0.2400	0.0041	0.0207	1.36E-08	0.0000	0.0000	6.80E-09
112		0.00	0.000	0.214	0.2268	0.0045	0.0226	1.36E-08	0.0000	0.0000	6.80E-09
113		0.00	0.000	0.087	0.2210	0.0039	0.0195	1.36E-08	0.0000	0.0000	6.80E-09
114		0.00	0.000	0.091	0.2152	0.0029	0.0143	1.36E-08	0.0000	0.0000	6.80E-09
115		0.00	0.000	0.062	0.2112	0.0022	0.0109	1.36E-08	0.0000	0.0000	6.80E-09
116		0.00	0.000	0.065	0.2071	0.0017	0.0084	1.36E-08	0.0000	0.0000	6.80E-09
117		0.00	0.000	0.067	0.2030	0.0016	0.0079	1.36E-08	0.0000	0.0000	6.80E-09
118		0.00	0.000	0.070	0.1989	0.0008	0.0039	1.33E-08	0.0000	0.0000	6.80E-09
119		0.00	0.000	0.083	0.1943	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120		0.00	0.000	0.077	0.1901	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
121		0.00	0.000	0.055	0.1869	0.0004	0.0019	8.99E-09	0.0000	0.0000	6.80E-09
122		0.00	0.000	0.049	0.1842	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123		1.36	0.000	0.079	0.2555	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124		0.41	0.000	0.258	0.2639	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125		0.14	0.000	0.087	0.2668	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126		0.00	0.000	0.110	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127		0.00	0.000	0.088	0.2558	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
128		0.00	0.000	0.124	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129		0.00	0.000	0.249	0.2351	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130		0.69	0.000	0.186	0.2631	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131		0.00	0.000	0.333	0.2446	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132		0.03	0.000	0.227	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.00	0.000	0.359	0.2135	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
134	0.00	0.000	0.237	0.2003	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.00	0.000	0.229	0.1876	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
136	0.00	0.000	0.139	0.1799	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
137	0.00	0.000	0.176	0.1702	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
138	0.00	0.000	0.128	0.1631	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
139	0.00	0.000	0.142	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
140	0.00	0.000	0.039	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.000	0.1530	0.0000	0.0000	5.55E-16	0.0000	0.0000	6.80E-09
142	0.02	0.000	0.022	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
143	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.04	0.000	0.018	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	0.00	0.000	0.008	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
148	0.09	0.000	0.028	0.1572	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
149	0.25	0.000	0.106	0.1650	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	0.00	0.000	0.075	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.00	0.000	0.092	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.13	0.000	0.067	0.1591	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	0.12	0.000	0.063	0.1624	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	0.13	0.000	0.119	0.1628	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
155	0.08	0.000	0.128	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
156	0.00	0.000	0.073	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
157	0.00	0.000	0.035	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
158	0.00	0.000	0.011	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.004	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.004	0.1530	0.0000	0.0002	2.27E-09	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.000	0.1530	0.0000	0.0000	4.22E-09	0.0000	0.0000	6.80E-09
162	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
163	0.18	0.000	0.021	0.1616	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
164	0.00	0.000	0.049	0.1589	0.0000	0.0000	6.34E-09	0.0000	0.0000	6.80E-09
165	0.00	0.000	0.080	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
166	0.00	0.000	0.021	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
167	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
169	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
170	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
179	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
180	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
183	0.37	0.000	0.111	0.1676	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.01	0.000	0.071	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.00	0.000	0.121	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.23	0.000	0.119	0.1641	0.0000	0.0000	1.40E-16	0.0000	0.0000	6.80E-09
187	0.70	0.000	0.092	0.1977	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.12	0.000	0.127	0.1976	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.24	0.000	0.137	0.2036	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.93	0.000	0.297	0.2389	0.0000	0.0002	9.05E-09	0.0000	0.0000	6.80E-09
191	0.43	0.000	0.123	0.2560	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
192	0.00	0.000	0.249	0.2421	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
193	0.00	0.000	0.145	0.2341	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
194	0.00	0.000	0.152	0.2256	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
195	0.47	0.000	0.388	0.2300	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
196	0.00	0.000	0.331	0.2116	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.293	0.1954	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.00	0.000	0.300	0.1787	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
199	0.00	0.000	0.273	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
200	0.00	0.000	0.146	0.1555	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.045	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.50	0.000	0.068	0.1769	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
205	0.00	0.000	0.147	0.1689	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.13	0.000	0.101	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.25	0.000	0.189	0.1739	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
208	0.90	0.000	0.163	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
209	0.11	0.000	0.221	0.2087	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
210	0.00	0.000	0.131	0.2014	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
211	0.00	0.000	0.290	0.1852	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.166	0.1760	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
213	0.00	0.000	0.306	0.1590	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
214	0.00	0.000	0.075	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
215	0.00	0.000	0.026	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
216	0.00	0.000	0.007	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
217	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
218	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
219	0.25	0.000	0.037	0.1650	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
220	0.34	0.000	0.080	0.1793	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
221	0.00	0.000	0.155	0.1707	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
222	0.11	0.000	0.098	0.1711	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
223	0.00	0.000	0.213	0.1595	0.0000	0.0000	4.42E-09	0.0000	0.0000	6.80E-09
224	0.00	0.000	0.104	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
225	0.00	0.000	0.009	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
226	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
229	0.50	0.000	0.114	0.1743	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
230	0.82	0.000	0.109	0.2135	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.00	0.000	0.183	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
232	0.00	0.000	0.257	0.1891	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.00	0.000	0.253	0.1750	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.254	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
235	0.14	0.000	0.119	0.1623	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
236	0.05	0.000	0.119	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
237	0.19	0.000	0.089	0.1645	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

238	0.07	0.000	0.131	0.1612	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.21	0.000	0.141	0.1652	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.00	0.000	0.111	0.1590	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	0.00	0.000	0.084	0.1543	0.0000	0.0002	6.80E-09	0.0000	0.0000	6.80E-09
242	0.00	0.000	0.016	0.1535	0.0000	0.0000	1.34E-09	0.0000	0.0000	6.80E-09
243	0.00	0.000	0.006	0.1531	0.0001	0.0005	6.80E-09	0.0000	0.0000	6.80E-09
244	0.00	0.000	0.002	0.1530	0.0000	0.0000	1.99E-09	0.0000	0.0000	6.80E-09
245	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.04	0.000	0.030	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.00	0.000	0.005	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
252	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.22	0.000	0.047	0.1626	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
261	0.00	0.000	0.051	0.1597	0.0000	0.0000	6.34E-09	0.0000	0.0000	6.80E-09
262	0.00	0.000	0.087	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.023	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.00	0.000	0.008	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.20	0.000	0.043	0.1618	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
266	0.12	0.000	0.048	0.1658	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
267	0.17	0.000	0.103	0.1695	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
268	0.05	0.000	0.129	0.1652	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.12	0.000	0.158	0.1632	0.0000	0.0000	6.07E-09	0.0000	0.0000	6.80E-09
270	0.00	0.000	0.109	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.055	0.1541	0.0000	0.0001	6.80E-09	0.0000	0.0000	6.80E-09
272	0.06	0.000	0.051	0.1547	0.0000	0.0000	9.18E-10	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.015	0.1538	0.0001	0.0004	6.80E-09	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.009	0.1533	0.0000	0.0000	1.90E-09	0.0000	0.0000	6.80E-09
275	0.01	0.000	0.011	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.57	0.000	0.103	0.1788	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.18	0.000	0.086	0.1839	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.23	0.000	0.156	0.1881	0.0000	0.0000	4.50E-09	0.0000	0.0000	6.80E-09
280	0.00	0.000	0.132	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.00	0.000	0.072	0.1770	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.054	0.1740	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.105	0.1682	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
284	0.00	0.000	0.094	0.1630	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.00	0.000	0.053	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.112	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.010	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.03	0.000	0.026	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
297	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
298	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
299	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
300	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
301	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
302	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
303	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
304	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
305	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

308		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
309		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
310		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
311		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
312		0.26	0.000	0.043	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
313		0.00	0.000	0.047	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
314		0.15	0.000	0.091	0.1662	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
315		0.09	0.000	0.081	0.1665	0.0000	0.0000	4.54E-09	0.0000	0.0000	6.80E-09
316		0.02	0.000	0.071	0.1639	0.0000	0.0000	1.93E-09	0.0000	0.0000	6.80E-09
317		0.00	0.000	0.067	0.1602	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
318		0.00	0.000	0.091	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
319		0.00	0.000	0.028	0.1536	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
320		0.35	0.000	0.075	0.1692	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
321		0.47	0.000	0.040	0.1929	0.0000	0.0000	2.21E-09	0.0000	0.0000	6.80E-09
322		0.00	0.000	0.038	0.1908	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
323		0.69	0.000	0.078	0.2248	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
324		0.02	0.000	0.141	0.2183	0.0000	0.0000	2.14E-09	0.0000	0.0000	6.80E-09
325		0.00	0.000	0.143	0.2104	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326		0.00	0.000	0.242	0.1970	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327		0.00	0.000	0.103	0.1912	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328		0.00	0.000	0.056	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329		0.00	0.000	0.085	0.1834	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330		0.00	0.000	0.073	0.1793	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331		0.00	0.000	0.097	0.1739	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332		0.00	0.000	0.060	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333	*	0.00	0.000	0.041	0.1682	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334	*	0.18	0.000	0.025	0.1693	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335		0.01	0.000	0.051	0.1747	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336		0.00	0.000	0.055	0.1716	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337		0.29	0.000	0.114	0.1813	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338		0.31	0.000	0.152	0.1898	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339		0.20	0.000	0.091	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
340		0.13	0.000	0.062	0.1992	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341		0.00	0.000	0.085	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342		0.00	0.000	0.096	0.1891	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

343	0.00	0.000	0.085	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344	0.00	0.000	0.080	0.1800	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
345	0.00	0.000	0.062	0.1765	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
346	0.00	0.000	0.070	0.1727	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
347	0.00	0.000	0.051	0.1698	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
348	0.01	0.000	0.065	0.1670	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349	0.63	0.000	0.053	0.1993	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
350	0.41	0.000	0.065	0.2184	0.0000	0.0000	1.83E-09	0.0000	0.0000	6.80E-09
351	0.00	0.000	0.047	0.2158	0.0000	0.0001	9.07E-09	0.0000	0.0000	6.80E-09
352	0.00	0.000	0.072	0.2117	0.0000	0.0000	1.21E-09	0.0000	0.0000	6.80E-09
353	0.00	0.000	0.034	0.2098	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354	0.16	0.000	0.061	0.2151	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
355	0.00	0.000	0.045	0.2126	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356	0.00	0.000	0.081	0.2081	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357	0.00	0.000	0.067	0.2044	0.0000	0.0000	4.50E-09	0.0000	0.0000	6.80E-09
358	0.00	0.000	0.090	0.1994	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359	0.00	0.000	0.059	0.1961	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360	0.00	0.000	0.033	0.1943	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361	*	0.00	0.019	0.1933	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362	*	0.38	0.018	0.1944	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.05	0.006	0.2156	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364		0.27	0.059	0.2273	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365		0.01	0.035	0.2262	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 3			
	inches	cubic feet	percent
Precipitation	30.05	2,396,707.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	27.456	2,189,679.2	91.36
Drainage Collected from Layer 3	1.6726	133,388.9	5.57
Percolation/Leakage through Layer 5	0.000002	0.1471	0.00
Average Head on Top of Layer 4	0.0119	---	---

Percolation/Leakage through Layer 8	0.000002	0.1980	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	0.9234	73,638.8	3.07
Soil Water at Start of Year	61.0858	4,871,663.2	203.26
Soil Water at End of Year	62.0092	4,945,302.0	206.34
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

Daily Output for Year 4

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1	*		0.00	0.000	0.000	0.2262	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2	*		0.00	0.000	0.000	0.2262	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
3			1.09	0.000	0.076	0.2827	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.055	0.2796	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.069	0.2758	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.042	0.2735	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7			0.01	0.000	0.070	0.2702	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.059	0.2671	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.055	0.2641	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10			0.00	0.000	0.066	0.2604	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11			0.00	0.000	0.078	0.2561	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.097	0.2507	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.167	0.2414	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.161	0.2325	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.095	0.2272	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.20	0.000	0.081	0.2338	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.00	0.000	0.078	0.2294	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.080	0.2250	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19	*		0.00	0.000	0.038	0.2229	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20	*		0.00	0.000	0.000	0.2229	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.055	0.2200	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.083	0.2154	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.077	0.2111	0.0000	0.0002	4.54E-09	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.059	0.2078	0.0000	0.0000	1.91E-09	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.050	0.2051	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.01	0.000	0.053	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.039	0.2008	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.036	0.1988	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.00	0.000	0.034	0.1969	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.05	0.000	0.044	0.1970	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.02	0.000	0.040	0.1958	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32		0.49	0.000	0.041	0.2207	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.099	0.2152	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.00	0.000	0.027	0.2137	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.026	0.2123	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36		0.00	0.000	0.028	0.2109	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.00	0.000	0.024	0.2096	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.024	0.2082	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39		0.14	0.000	0.033	0.2143	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
40		2.23	0.000	0.032	0.3362	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.44	0.000	0.073	0.3470	0.0269	0.1343	1.03E-08	0.0000	0.0000	6.80E-09
42	*	0.00	0.000	0.041	0.3342	0.0336	0.1679	1.70E-08	0.0000	0.0000	6.80E-09
43		0.09	0.000	0.145	0.3192	0.0484	0.2418	1.65E-08	0.0000	0.0000	6.80E-09
44		0.18	0.000	0.144	0.3151	0.0260	0.1300	1.36E-08	0.0000	0.0000	6.80E-09
45		0.00	0.000	0.060	0.3065	0.0181	0.0906	1.36E-08	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.088	0.2983	0.0130	0.0652	1.36E-08	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.110	0.2884	0.0137	0.0687	1.36E-08	0.0000	0.0000	6.80E-09
48		0.03	0.000	0.071	0.2838	0.0090	0.0448	1.36E-08	0.0000	0.0000	6.80E-09
49		0.19	0.000	0.094	0.2875	0.0062	0.0311	1.36E-08	0.0000	0.0000	6.80E-09
50		0.22	0.000	0.136	0.2915	0.0042	0.0208	1.36E-08	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.117	0.2837	0.0039	0.0195	1.36E-08	0.0000	0.0000	6.80E-09
52		0.03	0.000	0.135	0.2765	0.0048	0.0238	1.36E-08	0.0000	0.0000	6.80E-09
53		0.35	0.000	0.133	0.2875	0.0033	0.0167	1.36E-08	0.0000	0.0000	6.80E-09
54		0.08	0.000	0.108	0.2846	0.0046	0.0228	1.36E-08	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.065	0.2799	0.0043	0.0214	1.36E-08	0.0000	0.0000	6.80E-09
56		0.00	0.000	0.140	0.2711	0.0035	0.0175	1.36E-08	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.175	0.2600	0.0047	0.0237	1.36E-08	0.0000	0.0000	6.80E-09
58		0.00	0.000	0.188	0.2486	0.0037	0.0186	1.36E-08	0.0000	0.0000	6.80E-09
59		0.00	0.000	0.143	0.2399	0.0027	0.0134	1.36E-08	0.0000	0.0000	6.80E-09
60		0.00	0.000	0.179	0.2293	0.0023	0.0117	1.36E-08	0.0000	0.0000	6.80E-09
61		0.00	0.000	0.192	0.2186	0.0007	0.0033	9.04E-09	0.0000	0.0000	6.80E-09
62		0.00	0.000	0.096	0.2133	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63		0.00	0.000	0.078	0.2090	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64		0.00	0.000	0.060	0.2056	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65		0.64	0.000	0.057	0.2380	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66		0.00	0.000	0.087	0.2331	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67		0.00	0.000	0.140	0.2253	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68		0.01	0.000	0.107	0.2202	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69		0.00	0.000	0.078	0.2159	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70		0.00	0.000	0.060	0.2125	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71		0.00	0.000	0.052	0.2096	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72		0.00	0.000	0.044	0.2072	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73		0.00	0.000	0.043	0.2048	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74		0.00	0.000	0.039	0.2027	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75		0.00	0.000	0.039	0.2005	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
76		0.05	0.000	0.040	0.2012	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77		0.08	0.000	0.041	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78		0.00	0.000	0.032	0.2017	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79		0.00	0.000	0.034	0.1998	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80		0.00	0.000	0.034	0.1979	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81		0.00	0.000	0.040	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82		0.05	0.000	0.037	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83		0.00	0.000	0.035	0.1948	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84		0.00	0.000	0.029	0.1931	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85		0.28	0.000	0.036	0.2067	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86		0.00	0.000	0.032	0.2050	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
87	*	0.00	0.000	0.027	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
88		0.00	0.000	0.029	0.2019	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89		0.00	0.000	0.034	0.2000	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90		0.00	0.000	0.029	0.1984	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91		0.51	0.000	0.033	0.2249	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92		0.00	0.000	0.150	0.2166	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
93		0.00	0.000	0.048	0.2139	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
94		0.00	0.000	0.039	0.2117	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95		0.00	0.000	0.036	0.2098	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96		0.00	0.000	0.028	0.2082	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97		0.00	0.000	0.029	0.2066	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98		0.00	0.000	0.027	0.2050	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99		0.00	0.000	0.025	0.2036	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100		0.05	0.000	0.036	0.2046	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101	*	0.43	0.000	0.046	0.2057	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
102		0.00	0.000	0.180	0.2157	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
103		0.00	0.000	0.098	0.2103	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
104		0.66	0.000	0.045	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105		0.00	0.000	0.136	0.2367	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
106		0.00	0.000	0.220	0.2245	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
107		0.00	0.000	0.180	0.2145	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
108		0.00	0.000	0.192	0.2038	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
109		0.00	0.000	0.119	0.1972	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
110		0.00	0.000	0.110	0.1911	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
111		0.00	0.000	0.113	0.1848	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
112		0.00	0.000	0.118	0.1782	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
113		0.29	0.000	0.077	0.1901	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
114		0.71	0.000	0.114	0.2235	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
115		0.00	0.000	0.302	0.2067	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
116		0.00	0.000	0.193	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
117		0.00	0.000	0.327	0.1778	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
118		0.10	0.000	0.234	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
119		0.00	0.000	0.209	0.1589	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120		0.00	0.000	0.092	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
121		0.00	0.000	0.010	0.1533	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
122		0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123		0.43	0.000	0.075	0.1728	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124		0.00	0.000	0.074	0.1687	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125		0.00	0.000	0.152	0.1603	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126		1.01	0.000	0.193	0.2056	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127		0.10	0.000	0.319	0.1932	0.0000	0.0000	1.98E-09	0.0000	0.0000	6.80E-09
128		0.00	0.000	0.307	0.1761	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129		0.05	0.000	0.284	0.1633	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130		0.00	0.000	0.137	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131		0.05	0.000	0.070	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132		0.92	0.000	0.108	0.1997	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.39	0.000	0.236	0.2080	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
134	0.02	0.000	0.278	0.1935	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.00	0.000	0.250	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
136	0.00	0.000	0.314	0.1622	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
137	0.00	0.000	0.127	0.1551	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
138	0.00	0.000	0.026	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
139	0.00	0.000	0.013	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
140	0.05	0.000	0.027	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.012	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
142	0.00	0.000	0.007	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
143	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	1.21	0.000	0.161	0.2111	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.16	0.000	0.096	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.00	0.000	0.213	0.2032	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	0.00	0.000	0.154	0.1946	0.0000	0.0000	6.91E-09	0.0000	0.0000	6.80E-09
148	0.00	0.000	0.206	0.1832	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
149	0.00	0.000	0.230	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	0.00	0.000	0.160	0.1615	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.00	0.000	0.126	0.1545	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.79	0.000	0.146	0.1904	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	0.00	0.000	0.191	0.1798	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	0.00	0.000	0.228	0.1671	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
155	0.00	0.000	0.191	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
156	0.00	0.000	0.051	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
157	0.00	0.000	0.009	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
158	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
162	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
163	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
164	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
165	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
166	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
167	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
169	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
170	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.04	0.000	0.030	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.00	0.000	0.005	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.25	0.000	0.043	0.1644	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
179	0.00	0.000	0.098	0.1591	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
180	0.85	0.000	0.155	0.1980	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.207	0.1865	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.00	0.000	0.125	0.1795	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
183	0.00	0.000	0.219	0.1674	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.00	0.000	0.209	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.00	0.000	0.039	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
187	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
191	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
192	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
193	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
194	0.14	0.000	0.031	0.1590	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
195	0.09	0.000	0.095	0.1587	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
196	0.00	0.000	0.060	0.1554	0.0000	0.0000	1.96E-09	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.038	0.1533	0.0000	0.0000	2.01E-09	0.0000	0.0000	6.80E-09
198	0.00	0.000	0.004	0.1531	0.0000	0.0000	6.69E-09	0.0000	0.0000	6.80E-09
199	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
200	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

238	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	1.28	0.000	0.133	0.2168	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
242	0.09	0.000	0.242	0.2084	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
243	0.00	0.000	0.224	0.1959	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.03	0.000	0.160	0.1888	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.03	0.000	0.254	0.1762	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.00	0.000	0.122	0.1694	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.111	0.1632	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
248	0.00	0.000	0.144	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.00	0.000	0.026	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	0.00	0.000	0.013	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
252	0.12	0.000	0.049	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.58	0.000	0.137	0.1815	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.22	0.000	0.161	0.1846	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.280	0.1690	0.0000	0.0000	4.35E-09	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.238	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.86	0.000	0.153	0.1950	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.45	0.000	0.209	0.2086	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.00	0.000	0.166	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.31	0.000	0.104	0.2108	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
261	0.00	0.000	0.125	0.2038	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.00	0.000	0.216	0.1918	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.269	0.1769	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.00	0.000	0.346	0.1576	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.00	0.000	0.074	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
266	0.00	0.000	0.010	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
267	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.22E-16	0.0000	0.0000	6.80E-09
268	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.01	0.000	0.006	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
270	0.10	0.000	0.034	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.22	0.000	0.054	0.1657	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
272	0.69	0.000	0.059	0.2010	0.0000	0.0000	4.35E-09	0.0000	0.0000	6.80E-09

273	0.89	0.000	0.146	0.2424	0.0000	0.0000	3.82E-09	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.085	0.2377	0.0000	0.0000	2.17E-09	0.0000	0.0000	6.80E-09
275	0.00	0.000	0.164	0.2286	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.198	0.2176	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.00	0.000	0.098	0.2121	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.00	0.000	0.172	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.00	0.000	0.184	0.1924	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
280	0.12	0.000	0.138	0.1917	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.00	0.000	0.102	0.1862	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.187	0.1758	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.090	0.1708	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
284	0.53	0.000	0.126	0.1933	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.04	0.000	0.159	0.1869	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.158	0.1781	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.140	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.153	0.1619	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.125	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.030	0.1533	0.0000	0.0000	1.11E-16	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.46	0.000	0.051	0.1757	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.79	0.000	0.074	0.2153	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
297	1.20	0.000	0.085	0.2773	0.0000	0.0000	2.17E-09	0.0000	0.0000	6.80E-09
298	1.26	0.000	0.069	0.3434	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
299	0.04	0.000	0.169	0.3266	0.0314	0.1571	1.42E-08	0.0000	0.0000	6.80E-09
300	0.01	0.000	0.243	0.3054	0.0278	0.1390	1.36E-08	0.0000	0.0000	6.80E-09
301	0.22	0.000	0.196	0.3003	0.0234	0.1169	1.36E-08	0.0000	0.0000	6.80E-09
302	0.00	0.000	0.132	0.2895	0.0142	0.0709	1.36E-08	0.0000	0.0000	6.80E-09
303	0.00	0.000	0.140	0.2786	0.0111	0.0557	1.36E-08	0.0000	0.0000	6.80E-09
304	1.22	0.000	0.078	0.3400	0.0090	0.0450	1.36E-08	0.0000	0.0000	6.80E-09
305	0.00	0.000	0.055	0.3234	0.0407	0.2033	1.99E-08	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.095	0.3088	0.0380	0.1900	1.46E-08	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.246	0.2902	0.0201	0.1004	1.36E-08	0.0000	0.0000	6.80E-09

308		0.00	0.000	0.189	0.2766	0.0106	0.0529	1.36E-08	0.0000	0.0000	6.80E-09
309		0.00	0.000	0.094	0.2688	0.0101	0.0505	1.36E-08	0.0000	0.0000	6.80E-09
310		0.00	0.000	0.114	0.2597	0.0101	0.0504	1.36E-08	0.0000	0.0000	6.80E-09
311		0.00	0.000	0.071	0.2534	0.0086	0.0431	1.36E-08	0.0000	0.0000	6.80E-09
312		0.15	0.000	0.085	0.2553	0.0072	0.0358	1.36E-08	0.0000	0.0000	6.80E-09
313		0.12	0.000	0.101	0.2550	0.0055	0.0277	1.36E-08	0.0000	0.0000	6.80E-09
314		0.03	0.000	0.111	0.2492	0.0053	0.0265	1.36E-08	0.0000	0.0000	6.80E-09
315		0.09	0.000	0.078	0.2487	0.0048	0.0238	1.36E-08	0.0000	0.0000	6.80E-09
316		0.00	0.000	0.197	0.2367	0.0037	0.0186	1.36E-08	0.0000	0.0000	6.80E-09
317		0.00	0.000	0.243	0.2218	0.0049	0.0246	1.36E-08	0.0000	0.0000	6.80E-09
318		0.00	0.000	0.170	0.2113	0.0042	0.0212	1.36E-08	0.0000	0.0000	6.80E-09
319		0.00	0.000	0.222	0.1980	0.0034	0.0169	1.36E-08	0.0000	0.0000	6.80E-09
320		0.00	0.000	0.083	0.1929	0.0021	0.0104	1.36E-08	0.0000	0.0000	6.80E-09
321		0.00	0.000	0.103	0.1867	0.0018	0.0087	1.36E-08	0.0000	0.0000	6.80E-09
322		0.00	0.000	0.046	0.1842	0.0002	0.0012	6.76E-09	0.0000	0.0000	6.80E-09
323		0.00	0.000	0.038	0.1820	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
324	*	0.08	0.000	0.048	0.1831	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325	*	0.00	0.000	0.008	0.1831	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326	*	0.00	0.000	0.029	0.1816	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327		0.00	0.000	0.107	0.1756	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328		0.00	0.000	0.117	0.1691	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329		0.25	0.000	0.075	0.1784	0.0012	0.0061	7.63E-09	0.0000	0.0000	6.80E-09
330		0.02	0.000	0.051	0.1764	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331	*	0.00	0.000	0.030	0.1748	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332		0.00	0.000	0.061	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333	*	0.00	0.000	0.000	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334	*	0.00	0.000	0.000	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335	*	0.02	0.000	0.015	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336	*	0.00	0.000	0.000	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337	*	0.00	0.000	0.035	0.1692	0.0008	0.0038	4.54E-09	0.0000	0.0000	6.80E-09
338		0.00	0.000	0.043	0.1665	0.0013	0.0066	1.36E-08	0.0000	0.0000	6.80E-09
339		0.03	0.000	0.043	0.1658	0.0000	0.0000	2.26E-09	0.0000	0.0000	6.80E-09
340		0.11	0.000	0.053	0.1691	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341		0.00	0.000	0.041	0.1668	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342		0.02	0.000	0.071	0.1639	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

343		0.27	0.000	0.091	0.1739	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344		0.12	0.000	0.080	0.1757	0.0020	0.0098	4.54E-09	0.0000	0.0000	6.80E-09
345		0.00	0.000	0.073	0.1716	0.0000	0.0000	5.05E-09	0.0000	0.0000	6.80E-09
346		0.13	0.000	0.076	0.1749	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
347		0.00	0.000	0.034	0.1731	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
348		0.00	0.000	0.080	0.1686	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.00	0.000	0.042	0.1663	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.051	0.1634	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
351		0.28	0.000	0.095	0.1738	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
352		0.00	0.000	0.090	0.1688	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.044	0.1664	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354		0.16	0.000	0.051	0.1723	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
355		0.00	0.000	0.037	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356	*	0.00	0.000	0.000	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357		0.00	0.000	0.032	0.1685	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.15	0.000	0.092	0.1720	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359		0.00	0.000	0.064	0.1686	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360		0.13	0.000	0.068	0.1722	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361		0.05	0.000	0.060	0.1719	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362		0.00	0.000	0.040	0.1697	0.0000	0.0001	4.54E-09	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.042	0.1674	0.0000	0.0000	1.82E-09	0.0000	0.0000	6.80E-09
364		0.33	0.000	0.053	0.1828	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365		0.10	0.000	0.130	0.1813	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 4			
	inches	cubic feet	percent
Precipitation	31.42	2,505,715.5	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	29.523	2,354,453.3	93.96
Drainage Collected from Layer 3	2.7048	215,709.5	8.61
Percolation/Leakage through Layer 5	0.000001	0.0561	0.00
Average Head on Top of Layer 4	0.0015	---	---

Percolation/Leakage through Layer 8	0.000002	0.1986	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.8081	-64,447.6	-2.57
Soil Water at Start of Year	62.0092	4,945,302.0	197.36
Soil Water at End of Year	61.2011	4,880,854.4	194.79
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

Daily Output for Year 5

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.043	0.1789	0.0000	0.0000	6.79E-09	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.052	0.1760	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.038	0.1739	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.024	0.1726	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.040	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.041	0.1681	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7			0.00	0.000	0.036	0.1661	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.032	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.030	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10			0.00	0.000	0.028	0.1611	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11			0.00	0.000	0.026	0.1597	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.025	0.1583	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.023	0.1570	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.025	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.024	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.00	0.000	0.020	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30	*	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32		0.09	0.000	0.020	0.1572	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.18	0.000	0.026	0.1659	0.0000	0.0000	6.80E-09	0.0000	0.0000	6.80E-09
34		0.07	0.000	0.028	0.1683	0.0000	0.0000	1.36E-08	0.0000	0.0000	6.80E-09
35		0.06	0.000	0.026	0.1700	0.0000	0.0000	1.20E-09	0.0000	0.0000	6.80E-09
36		0.00	0.000	0.007	0.1696	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.23	0.000	0.029	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38	*	0.00	0.000	0.012	0.1801	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.012	0.1795	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
40		0.00	0.000	0.010	0.1790	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.010	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
42		0.00	0.000	0.010	0.1779	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43		0.00	0.000	0.010	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44		0.00	0.000	0.010	0.1768	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45		0.00	0.000	0.010	0.1762	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.009	0.1757	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.011	0.1751	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.08	0.000	0.030	0.1777	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49		0.16	0.000	0.030	0.1851	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50		0.99	0.000	0.031	0.2383	0.0000	0.0000	2.18E-09	0.0000	0.0000	6.80E-09
51		0.36	0.000	0.082	0.2539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52		0.08	0.000	0.078	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53		0.00	0.000	0.057	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54		0.00	0.000	0.051	0.2480	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.079	0.2437	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56	*	0.00	0.000	0.039	0.2415	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.038	0.2394	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
58		0.00	0.000	0.066	0.2358	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59		0.00	0.000	0.095	0.2305	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60		0.03	0.000	0.099	0.2267	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61		0.50	0.000	0.134	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
62		0.12	0.000	0.227	0.2414	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63	0.00	0.000	0.138	0.2338	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64	0.00	0.000	0.118	0.2272	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65	0.00	0.000	0.105	0.2214	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66	0.00	0.000	0.086	0.2166	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67	0.00	0.000	0.128	0.2095	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68	0.00	0.000	0.058	0.2063	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69	0.00	0.000	0.076	0.2021	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70	0.00	0.000	0.060	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71	0.00	0.000	0.051	0.1959	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72	0.00	0.000	0.045	0.1934	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73	0.00	0.000	0.041	0.1911	0.0000	0.0001	5.67E-09	0.0000	0.0000	6.80E-09
74	0.00	0.000	0.039	0.1889	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75	0.82	0.000	0.055	0.2316	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
76	0.06	0.000	0.106	0.2290	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77	0.03	0.000	0.078	0.2261	0.0000	0.0002	6.49E-09	0.0000	0.0000	6.80E-09
78	0.00	0.000	0.065	0.2225	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79	0.00	0.000	0.090	0.2175	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80	0.00	0.000	0.065	0.2139	0.0001	0.0003	6.59E-09	0.0000	0.0000	6.80E-09
81	0.00	0.000	0.213	0.2021	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82	0.00	0.000	0.125	0.1951	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83	0.00	0.000	0.083	0.1905	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84	0.00	0.000	0.066	0.1869	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85	0.00	0.000	0.053	0.1839	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86	0.02	0.000	0.060	0.1818	0.0000	0.0001	6.22E-09	0.0000	0.0000	6.80E-09
87	0.19	0.000	0.062	0.1889	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
88	0.00	0.000	0.043	0.1865	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89	0.00	0.000	0.043	0.1841	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90	0.00	0.000	0.036	0.1821	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91	0.00	0.000	0.036	0.1801	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92	0.00	0.000	0.034	0.1782	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
93	0.00	0.000	0.041	0.1759	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
94	0.00	0.000	0.037	0.1739	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95	0.00	0.000	0.036	0.1718	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96	0.00	0.000	0.037	0.1698	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97	0.00	0.000	0.031	0.1681	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98	0.00	0.000	0.033	0.1662	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99	0.00	0.000	0.033	0.1644	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100	0.00	0.000	0.040	0.1622	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101	0.00	0.000	0.030	0.1605	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
102	0.00	0.000	0.027	0.1590	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
103	0.30	0.000	0.053	0.1728	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
104	0.00	0.000	0.045	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105	0.00	0.000	0.042	0.1680	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
106	0.00	0.000	0.041	0.1657	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
107	0.00	0.000	0.039	0.1635	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
108	0.00	0.000	0.039	0.1614	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
109	0.05	0.000	0.052	0.1610	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
110	0.01	0.000	0.043	0.1589	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
111	0.31	0.000	0.045	0.1736	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
112	0.00	0.000	0.040	0.1715	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
113	1.26	0.000	0.042	0.2392	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
114	0.05	0.000	0.156	0.2335	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
115	0.00	0.000	0.137	0.2260	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
116	0.03	0.000	0.256	0.2132	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
117	0.00	0.000	0.330	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
118	0.01	0.000	0.297	0.1788	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
119	0.32	0.000	0.115	0.1902	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120	0.00	0.000	0.274	0.1750	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
121	0.00	0.000	0.106	0.1691	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
122	0.24	0.000	0.124	0.1756	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123	0.00	0.000	0.140	0.1679	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124	0.00	0.000	0.171	0.1584	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125	0.00	0.000	0.081	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126	0.00	0.000	0.015	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
128	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130	1.48	0.000	0.190	0.2244	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131	0.05	0.000	0.122	0.2203	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132	0.00	0.000	0.372	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.00	0.000	0.331	0.1812	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
134	0.05	0.000	0.414	0.1608	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.01	0.000	0.113	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
136	0.15	0.000	0.096	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
137	0.07	0.000	0.074	0.1574	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
138	0.00	0.000	0.039	0.1553	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
139	0.00	0.000	0.033	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
140	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
142	0.00	0.000	0.001	0.1530	0.0000	0.0000	6.78E-09	0.0000	0.0000	6.80E-09
143	0.17	0.000	0.046	0.1597	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	0.00	0.000	0.082	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.00	0.000	0.025	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.00	0.000	0.009	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
148	0.07	0.000	0.039	0.1551	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
149	0.00	0.000	0.016	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	0.00	0.000	0.016	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
155	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
156	0.24	0.000	0.036	0.1646	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
157	0.05	0.000	0.101	0.1615	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
158	0.82	0.000	0.242	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.169	0.1843	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.124	0.1774	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.244	0.1638	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
162	0.00	0.000	0.095	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
163	0.00	0.000	0.090	0.1536	0.0000	0.0000	1.40E-09	0.0000	0.0000	6.80E-09
164	0.37	0.000	0.143	0.1662	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
165	0.44	0.000	0.125	0.1837	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
166	0.00	0.000	0.221	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
167	0.00	0.000	0.174	0.1617	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.00	0.000	0.127	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
169	0.00	0.000	0.020	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
170	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.44	0.000	0.132	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.11	0.000	0.116	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.00	0.000	0.114	0.1639	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.00	0.000	0.144	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
179	0.00	0.000	0.039	0.1537	0.0000	0.0000	3.96E-09	0.0000	0.0000	6.80E-09
180	0.00	0.000	0.011	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
183	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.01	0.000	0.010	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
187	0.30	0.000	0.098	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.00	0.000	0.088	0.1595	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.00	0.000	0.095	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.00	0.000	0.014	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
191	0.00	0.000	0.007	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
192	0.07	0.000	0.043	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
193	0.04	0.000	0.034	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
194	0.00	0.000	0.015	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
195	0.00	0.000	0.020	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
196	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
199	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
200	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
205	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
208	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
209	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
210	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
211	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
213	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
214	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
215	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
216	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
217	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
218	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
219	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
220	0.17	0.000	0.050	0.1597	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
221	0.00	0.000	0.080	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
222	0.17	0.000	0.059	0.1615	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
223	0.00	0.000	0.087	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
224	0.00	0.000	0.042	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
225	0.00	0.000	0.016	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
226	0.05	0.000	0.039	0.1540	0.0001	0.0003	6.80E-09	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.011	0.1534	0.0000	0.0000	1.71E-09	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.002	0.1530	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
230	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.97	0.000	0.069	0.2028	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
232	0.75	0.000	0.216	0.2322	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.01	0.000	0.278	0.2174	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.62	0.000	0.312	0.2348	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
235	0.00	0.000	0.388	0.2133	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
236	0.15	0.000	0.169	0.2123	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
237	0.00	0.000	0.162	0.2032	0.0001	0.0007	6.71E-09	0.0000	0.0000	6.80E-09

238	0.00	0.000	0.288	0.1872	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.48	0.000	0.303	0.1969	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.93	0.000	0.126	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	0.00	0.000	0.141	0.2340	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
242	0.00	0.000	0.110	0.2279	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
243	0.00	0.000	0.164	0.2188	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.00	0.000	0.206	0.2073	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.01	0.000	0.119	0.2015	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.00	0.000	0.146	0.1934	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.269	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.01	0.000	0.285	0.1633	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.09	0.000	0.213	0.1568	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	0.00	0.000	0.050	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.00	0.000	0.012	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
252	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
261	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.52	0.000	0.117	0.1754	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
266	0.00	0.000	0.099	0.1699	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
267	0.56	0.000	0.096	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
268	0.00	0.000	0.135	0.1882	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.00	0.000	0.117	0.1817	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
270	0.10	0.000	0.290	0.1713	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.184	0.1610	0.0000	0.0001	8.28E-09	0.0000	0.0000	6.80E-09
272	0.00	0.000	0.104	0.1553	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.026	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.010	0.1532	0.0002	0.0010	6.80E-09	0.0000	0.0000	6.80E-09
275	0.00	0.000	0.003	0.1531	0.0000	0.0000	2.14E-09	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.26	0.000	0.042	0.1651	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.05	0.000	0.060	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
280	0.00	0.000	0.032	0.1625	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.00	0.000	0.029	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.039	0.1587	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.039	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
284	0.00	0.000	0.033	0.1547	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.00	0.000	0.024	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.002	0.1530	0.0000	0.0000	6.19E-09	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.84	0.000	0.045	0.1972	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.10	0.000	0.093	0.1977	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.20	0.000	0.108	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.43	0.000	0.120	0.2200	0.0000	0.0000	2.15E-09	0.0000	0.0000	6.80E-09
297	0.48	0.000	0.147	0.2388	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
298	0.00	0.000	0.068	0.2350	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
299	0.00	0.000	0.040	0.2327	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
300	0.00	0.000	0.021	0.2316	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
301	0.00	0.000	0.043	0.2292	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
302	0.00	0.000	0.036	0.2272	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
303	0.00	0.000	0.044	0.2247	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
304	0.00	0.000	0.038	0.2226	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
305	0.00	0.000	0.028	0.2211	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.028	0.2195	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.107	0.2136	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

308	0.00	0.000	0.034	0.2117	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
309	0.00	0.000	0.038	0.2096	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
310	0.00	0.000	0.047	0.2070	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
311	0.00	0.000	0.033	0.2051	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
312	0.00	0.000	0.046	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
313	0.00	0.000	0.073	0.1985	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
314	0.69	0.000	0.228	0.2240	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
315	0.03	0.000	0.066	0.2219	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
316	0.05	0.000	0.195	0.2138	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
317	0.04	0.000	0.112	0.2099	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
318	0.02	0.000	0.086	0.2063	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
319	0.56	0.000	0.089	0.2325	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
320	0.86	0.000	0.192	0.2695	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
321	0.00	0.000	0.157	0.2607	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
322	0.00	0.000	0.208	0.2492	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
323	0.00	0.000	0.165	0.2401	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
324	0.00	0.000	0.052	0.2371	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325	0.40	0.000	0.098	0.2537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326	0.04	0.000	0.068	0.2519	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327	0.00	0.000	0.061	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328	0.00	0.000	0.110	0.2424	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329	0.00	0.000	0.094	0.2372	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330	0.00	0.000	0.125	0.2302	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331	0.00	0.000	0.091	0.2252	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332	0.00	0.000	0.072	0.2211	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333	0.09	0.000	0.116	0.2197	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334	0.00	0.000	0.072	0.2157	0.0000	0.0000	4.55E-09	0.0000	0.0000	6.80E-09
335	0.00	0.000	0.135	0.2082	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
336	0.00	0.000	0.085	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337	0.00	0.000	0.035	0.2015	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338	0.00	0.000	0.049	0.1988	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339	0.00	0.000	0.068	0.1950	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
340	0.00	0.000	0.058	0.1918	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341	0.00	0.000	0.048	0.1892	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342	0.00	0.000	0.032	0.1874	0.0000	0.0001	6.26E-09	0.0000	0.0000	6.80E-09

343		0.00	0.000	0.022	0.1862	0.0000	0.0000	5.08E-09	0.0000	0.0000	6.80E-09
344		0.00	0.000	0.039	0.1840	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
345		0.02	0.000	0.054	0.1819	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
346	*	0.00	0.000	0.017	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
347		0.02	0.000	0.055	0.1791	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
348		0.32	0.000	0.067	0.1928	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.00	0.000	0.055	0.1898	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.037	0.1877	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
351		0.00	0.000	0.061	0.1843	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
352		0.01	0.000	0.035	0.1827	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.035	0.1807	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354		0.48	0.000	0.064	0.2041	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
355		0.13	0.000	0.078	0.2072	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356		0.00	0.000	0.074	0.2031	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357		0.00	0.000	0.125	0.1961	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.00	0.000	0.119	0.1895	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359		0.01	0.000	0.076	0.1858	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360		0.00	0.000	0.185	0.1755	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361		0.36	0.000	0.102	0.1900	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362		0.26	0.000	0.177	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.190	0.1840	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364		0.00	0.000	0.125	0.1770	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365		0.00	0.000	0.054	0.1740	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 5			
	inches	cubic feet	percent
Precipitation	23.95	1,910,079.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	24.078	1,920,235.7	100.53
Drainage Collected from Layer 3	0.0031	245.3	0.01
Percolation/Leakage through Layer 5	0.000000	0.0101	0.00
Average Head on Top of Layer 4	0.0000	---	---

Percolation/Leakage through Layer 8	0.000002	0.1980	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.1304	-10,402.2	-0.54
Soil Water at Start of Year	61.2011	4,880,854.4	255.53
Soil Water at End of Year	61.0707	4,870,452.2	254.99
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

Daily Output for Year 6

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.059	0.1708	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.037	0.1687	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.044	0.1660	0.0009	0.0047	6.80E-09	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.037	0.1639	0.0000	0.0000	2.26E-09	0.0000	0.0000	6.80E-09
5			0.15	0.000	0.059	0.1688	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.034	0.1669	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7	*		0.00	0.000	0.032	0.1652	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.030	0.1635	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.028	0.1619	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10			0.00	0.000	0.024	0.1606	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11			0.00	0.000	0.021	0.1595	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.019	0.1584	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.020	0.1573	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.019	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.018	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.00	0.000	0.023	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.05	0.000	0.037	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.01	0.000	0.013	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.00	0.000	0.003	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.00	0.000	0.004	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.003	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.003	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.003	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.003	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.01	0.000	0.009	0.1534	0.0000	0.0000	4.51E-09	0.0000	0.0000	6.80E-09
26			0.04	0.000	0.020	0.1543	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
27			0.21	0.000	0.024	0.1646	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.01	0.000	0.015	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.01	0.000	0.018	0.1641	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.00	0.000	0.010	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.00	0.000	0.008	0.1631	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09
32		0.00	0.000	0.010	0.1626	0.0000	0.0000	4.52E-09	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.010	0.1620	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.02	0.000	0.022	0.1617	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.011	0.1611	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36	*	0.00	0.000	0.011	0.1606	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.00	0.000	0.010	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.010	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.010	0.1589	0.0000	0.0000	6.61E-09	0.0000	0.0000	6.80E-09
40	*	0.00	0.000	0.010	0.1583	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.010	0.1578	0.0000	0.0000	6.33E-09	0.0000	0.0000	6.80E-09
42		0.00	0.000	0.009	0.1573	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
43		0.37	0.000	0.032	0.1758	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44		0.21	0.000	0.031	0.1856	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45		0.49	0.000	0.032	0.2108	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.039	0.2087	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.064	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.033	0.2034	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49		0.00	0.000	0.055	0.2003	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50		0.00	0.000	0.054	0.1973	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.045	0.1948	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52		0.00	0.000	0.040	0.1926	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53		0.02	0.000	0.050	0.1910	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54	*	0.17	0.000	0.040	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.081	0.1936	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56	*	0.00	0.000	0.029	0.1920	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.032	0.1902	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
58		0.51	0.000	0.052	0.2157	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59		0.66	0.000	0.131	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60		0.04	0.000	0.097	0.2417	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61		0.41	0.000	0.118	0.2577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
62		0.00	0.000	0.149	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63		0.06	0.000	0.170	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64		0.44	0.000	0.156	0.2590	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65		0.00	0.000	0.045	0.2566	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66		0.21	0.000	0.185	0.2581	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67		0.13	0.000	0.139	0.2573	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68		0.00	0.000	0.070	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69		0.00	0.000	0.101	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70	*	0.00	0.000	0.044	0.2454	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71		0.14	0.000	0.060	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72		0.33	0.000	0.085	0.2631	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73		0.00	0.000	0.103	0.2574	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74		0.00	0.000	0.160	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75		0.00	0.000	0.149	0.2402	0.0001	0.0003	2.27E-09	0.0000	0.0000	6.80E-09
76		0.00	0.000	0.212	0.2284	0.0001	0.0006	8.96E-09	0.0000	0.0000	6.80E-09
77		0.00	0.000	0.182	0.2183	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78		0.00	0.000	0.145	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79		0.75	0.000	0.101	0.2465	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80		0.23	0.000	0.283	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81		0.04	0.000	0.234	0.2327	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82		1.07	0.000	0.130	0.2847	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83		0.00	0.000	0.272	0.2696	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84		0.00	0.000	0.211	0.2579	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85		0.00	0.000	0.144	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86		0.00	0.000	0.099	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
87		0.00	0.000	0.074	0.2403	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
88		0.00	0.000	0.131	0.2330	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89		0.00	0.000	0.081	0.2285	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90		0.00	0.000	0.248	0.2148	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91		0.00	0.000	0.179	0.2048	0.0000	0.0001	6.23E-09	0.0000	0.0000	6.80E-09
92		0.00	0.000	0.083	0.2002	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
93		0.00	0.000	0.071	0.1962	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
94		0.37	0.000	0.076	0.2125	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95		0.00	0.000	0.063	0.2093	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96		0.00	0.000	0.051	0.2064	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97		0.00	0.000	0.056	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98	0.00	0.000	0.041	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99	0.00	0.000	0.054	0.1981	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100	0.00	0.000	0.050	0.1954	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101	0.26	0.000	0.065	0.2065	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
102	0.26	0.000	0.059	0.2176	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
103	0.00	0.000	0.207	0.2060	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
104	0.00	0.000	0.049	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105	0.00	0.000	0.037	0.2013	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
106	0.00	0.000	0.036	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
107	0.00	0.000	0.032	0.1975	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
108	0.00	0.000	0.048	0.1948	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
109	0.00	0.000	0.058	0.1916	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
110	0.00	0.000	0.083	0.1869	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
111	0.00	0.000	0.072	0.1830	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
112	0.00	0.000	0.090	0.1780	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
113	0.00	0.000	0.094	0.1727	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
114	0.00	0.000	0.073	0.1687	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
115	0.00	0.000	0.093	0.1635	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
116	0.00	0.000	0.089	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
117	0.00	0.000	0.080	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
118	0.00	0.000	0.021	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
119	0.18	0.000	0.022	0.1617	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120	0.00	0.000	0.031	0.1599	0.0000	0.0000	6.34E-09	0.0000	0.0000	6.80E-09
121	0.00	0.000	0.034	0.1581	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
122	0.00	0.000	0.030	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123	0.00	0.000	0.046	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124	0.00	0.000	0.012	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125	0.00	0.000	0.003	0.1530	0.0000	0.0000	6.70E-09	0.0000	0.0000	6.80E-09
126	0.05	0.000	0.019	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127	0.00	0.000	0.007	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
128	0.12	0.000	0.027	0.1597	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129	0.00	0.000	0.063	0.1562	0.0000	0.0000	8.55E-09	0.0000	0.0000	6.80E-09
130	0.00	0.000	0.040	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131	0.00	0.000	0.013	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
169	0.11	0.000	0.030	0.1572	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
170	0.02	0.000	0.029	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	1.92	0.000	0.066	0.2593	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.70	0.000	0.327	0.2800	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.00	0.000	0.276	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.00	0.000	0.304	0.2477	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.60	0.000	0.313	0.2637	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.00	0.000	0.122	0.2569	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.00	0.000	0.123	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.00	0.000	0.361	0.2301	0.0000	0.0000	4.53E-09	0.0000	0.0000	6.80E-09
179	0.01	0.000	0.158	0.2219	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
180	0.00	0.000	0.334	0.2034	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.426	0.1797	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.00	0.000	0.311	0.1622	0.0007	0.0033	6.80E-09	0.0000	0.0000	6.80E-09
183	0.00	0.000	0.166	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.02	0.000	0.022	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
187	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.33	0.000	0.081	0.1671	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.28	0.000	0.085	0.1781	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.00	0.000	0.103	0.1723	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
191	0.00	0.000	0.164	0.1633	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
192	1.91	0.000	0.227	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
193	0.00	0.000	0.353	0.2370	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
194	0.06	0.000	0.294	0.2239	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
195	0.90	0.000	0.316	0.2563	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
196	0.06	0.000	0.294	0.2434	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.267	0.2286	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.59	0.000	0.162	0.2522	0.0002	0.0011	1.33E-08	0.0000	0.0000	6.80E-09
199	0.00	0.000	0.326	0.2340	0.0001	0.0004	6.64E-09	0.0000	0.0000	6.80E-09
200	0.00	0.000	0.271	0.2190	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.217	0.2069	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	0.00	0.000	0.202	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.00	0.000	0.130	0.1885	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.00	0.000	0.127	0.1814	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
205	0.00	0.000	0.286	0.1655	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.00	0.000	0.167	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.00	0.000	0.058	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
208	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
209	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
210	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
211	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
213	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
214	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
215	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
216	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
217	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
218	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
219	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
220	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
221	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
222	0.23	0.000	0.035	0.1640	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
223	0.00	0.000	0.091	0.1591	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
224	0.00	0.000	0.087	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
225	0.00	0.000	0.016	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
226	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
230	0.08	0.000	0.041	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.02	0.000	0.029	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
232	0.31	0.000	0.115	0.1657	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.05	0.000	0.113	0.1621	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.081	0.1576	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
235	0.15	0.000	0.072	0.1620	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
236	0.00	0.000	0.073	0.1580	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
237	0.19	0.000	0.093	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

238	0.00	0.000	0.078	0.1592	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.00	0.000	0.086	0.1545	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.00	0.000	0.022	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	0.49	0.000	0.063	0.1768	0.0000	0.0001	6.80E-09	0.0000	0.0000	6.80E-09
242	0.12	0.000	0.051	0.1805	0.0000	0.0000	1.04E-09	0.0000	0.0000	6.80E-09
243	0.03	0.000	0.127	0.1753	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.07	0.000	0.070	0.1753	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.00	0.000	0.073	0.1713	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.00	0.000	0.045	0.1688	0.0000	0.0000	2.05E-09	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.037	0.1667	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.00	0.000	0.123	0.1599	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.00	0.000	0.070	0.1560	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	0.00	0.000	0.049	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
252	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.11	0.000	0.037	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.00	0.000	0.019	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.19	0.000	0.052	0.1638	0.0000	0.0000	3.43E-16	0.0000	0.0000	6.80E-09
260	0.03	0.000	0.119	0.1586	0.0000	0.0000	4.35E-09	0.0000	0.0000	6.80E-09
261	0.00	0.000	0.063	0.1551	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.00	0.000	0.028	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.00	0.000	0.001	0.1530	0.0000	0.0001	2.27E-09	0.0000	0.0000	6.80E-09
266	0.00	0.000	0.000	0.1530	0.0000	0.0000	3.55E-09	0.0000	0.0000	6.80E-09
267	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
268	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
270	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
272	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
275	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.05	0.000	0.028	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
280	0.07	0.000	0.032	0.1566	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.00	0.000	0.009	0.1560	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.029	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.014	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
284	0.00	0.000	0.007	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.33	0.000	0.048	0.1687	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.028	0.1672	0.0000	0.0000	2.93E-09	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.031	0.1654	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.044	0.1630	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.048	0.1604	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.032	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.09	0.000	0.057	0.1604	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.050	0.1576	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.00	0.000	0.034	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.00	0.000	0.019	0.1546	0.0000	0.0000	4.51E-09	0.0000	0.0000	6.80E-09
297	0.00	0.000	0.015	0.1538	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
298	0.00	0.000	0.011	0.1532	0.0000	0.0001	2.27E-09	0.0000	0.0000	6.80E-09
299	0.02	0.000	0.023	0.1532	0.0000	0.0000	3.99E-09	0.0000	0.0000	6.80E-09
300	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
301	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
302	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
303	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
304	1.06	0.000	0.037	0.2099	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
305	0.00	0.000	0.060	0.2065	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.127	0.1995	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.090	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

308		0.00	0.000	0.060	0.1911	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
309		0.00	0.000	0.069	0.1873	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
310		0.00	0.000	0.099	0.1818	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
311		0.00	0.000	0.217	0.1697	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
312		0.00	0.000	0.082	0.1651	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
313		0.00	0.000	0.149	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
314		0.00	0.000	0.050	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
315		0.19	0.000	0.052	0.1616	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
316		0.00	0.000	0.032	0.1598	0.0001	0.0007	8.89E-09	0.0000	0.0000	6.80E-09
317		0.00	0.000	0.038	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
318		0.00	0.000	0.034	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
319		0.00	0.000	0.036	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
320		0.00	0.000	0.011	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
321		0.02	0.000	0.023	0.1534	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
322		0.00	0.000	0.004	0.1532	0.0000	0.0000	2.17E-09	0.0000	0.0000	6.80E-09
323	*	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
324		0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325		0.39	0.000	0.042	0.1723	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326		0.00	0.000	0.014	0.1715	0.0000	0.0000	6.65E-09	0.0000	0.0000	6.80E-09
327		0.00	0.000	0.019	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328	*	0.00	0.000	0.018	0.1695	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329	*	0.00	0.000	0.000	0.1695	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330		0.00	0.000	0.018	0.1685	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331		0.86	0.000	0.047	0.2136	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332		1.13	0.000	0.076	0.2720	0.0000	0.0000	1.94E-09	0.0000	0.0000	6.80E-09
333		0.00	0.000	0.073	0.2680	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334		0.00	0.000	0.047	0.2653	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335		0.02	0.000	0.056	0.2632	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336		0.00	0.000	0.076	0.2590	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337		0.00	0.000	0.070	0.2551	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338		0.00	0.000	0.219	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339		0.05	0.000	0.154	0.2369	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
340		0.32	0.000	0.097	0.2491	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341		0.00	0.000	0.240	0.2357	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342		0.00	0.000	0.089	0.2308	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

343		0.00	0.000	0.069	0.2269	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344		0.00	0.000	0.101	0.2213	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
345		0.00	0.000	0.068	0.2176	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
346		0.01	0.000	0.133	0.2106	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
347		0.19	0.000	0.071	0.2174	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
348		0.00	0.000	0.060	0.2143	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.18	0.000	0.055	0.2212	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350	*	0.28	0.000	0.027	0.2223	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
351		0.47	0.000	0.003	0.2610	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
352		0.14	0.000	0.080	0.2643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.161	0.2554	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354		0.00	0.000	0.082	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
355		0.00	0.000	0.086	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356		0.00	0.000	0.081	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357		0.00	0.000	0.054	0.2386	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.10	0.000	0.148	0.2360	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359		0.28	0.000	0.186	0.2412	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360		0.00	0.000	0.060	0.2378	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361		0.23	0.000	0.070	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362		0.09	0.000	0.112	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.104	0.2398	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364		0.00	0.000	0.052	0.2369	0.0000	0.0001	6.29E-09	0.0000	0.0000	6.80E-09
365		0.00	0.000	0.071	0.2329	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 6			
	inches	cubic feet	percent
Precipitation	24.49	1,953,265.4	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	23.420	1,867,750.3	95.62
Drainage Collected from Layer 3	0.0119	945.9	0.05
Percolation/Leakage through Layer 5	0.000000	0.0142	0.00
Average Head on Top of Layer 4	0.0000	---	---

Percolation/Leakage through Layer 8	0.000002	0.1980	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	1.0604	84,569.0	4.33
Soil Water at Start of Year	61.0707	4,870,452.2	249.35
Soil Water at End of Year	62.1311	4,955,021.2	253.68
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

Daily Output for Year 7

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.07	0.000	0.103	0.2309	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.090	0.2259	0.0000	0.0001	5.43E-09	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.061	0.2225	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.056	0.2194	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
5			0.01	0.000	0.066	0.2161	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6	*		0.00	0.000	0.049	0.2133	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7	*		0.00	0.000	0.000	0.2133	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8	*		0.00	0.000	0.044	0.2109	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.087	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10			0.40	0.000	0.090	0.2235	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11			0.01	0.000	0.183	0.2139	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.15	0.000	0.145	0.2140	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13			0.92	0.000	0.182	0.2553	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.05	0.000	0.230	0.2455	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.12	0.000	0.086	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.35	0.000	0.179	0.2568	0.0005	0.0024	1.13E-08	0.0000	0.0000	6.80E-09
17			0.02	0.000	0.142	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.04	0.000	0.138	0.2444	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.19	0.000	0.065	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20	*		0.10	0.000	0.060	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.095	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.108	0.2425	0.0000	0.0002	6.45E-09	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.060	0.2391	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24	*		0.00	0.000	0.041	0.2369	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.077	0.2326	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.134	0.2252	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.072	0.2212	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.115	0.2148	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.09	0.000	0.175	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.43	0.000	0.077	0.2299	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.02	0.000	0.171	0.2217	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32		0.00	0.000	0.146	0.2136	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.088	0.2087	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34	*	0.00	0.000	0.047	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.077	0.2018	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36	*	0.00	0.000	0.051	0.1990	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.24	0.000	0.058	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.044	0.2068	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.039	0.2046	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
40		0.00	0.000	0.036	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.034	0.2007	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
42		0.00	0.000	0.032	0.1989	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43		0.00	0.000	0.030	0.1973	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44		0.88	0.000	0.036	0.2440	0.0000	0.0000	4.53E-09	0.0000	0.0000	6.80E-09
45		0.63	0.000	0.126	0.2721	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.119	0.2655	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.113	0.2593	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.246	0.2456	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49		0.00	0.000	0.187	0.2352	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50		0.28	0.000	0.146	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.078	0.2385	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52		0.13	0.000	0.118	0.2393	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53		0.00	0.000	0.152	0.2309	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54		0.00	0.000	0.078	0.2266	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.050	0.2238	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56		0.00	0.000	0.054	0.2208	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.128	0.2137	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
58		0.02	0.000	0.119	0.2079	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59		0.02	0.000	0.139	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60		0.07	0.000	0.083	0.2002	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61		0.00	0.000	0.061	0.1969	0.0000	0.0002	6.48E-09	0.0000	0.0000	6.80E-09
62		0.00	0.000	0.050	0.1941	0.0000	0.0001	6.01E-09	0.0000	0.0000	6.80E-09

63		0.00	0.000	0.045	0.1917	0.0000	0.0001	5.69E-09	0.0000	0.0000	6.80E-09
64		0.08	0.000	0.047	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65		0.00	0.000	0.038	0.1915	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66		0.00	0.000	0.035	0.1896	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67		0.17	0.000	0.040	0.1968	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68		0.00	0.000	0.032	0.1951	0.0000	0.0000	4.52E-09	0.0000	0.0000	6.80E-09
69		0.00	0.000	0.029	0.1934	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70		0.00	0.000	0.028	0.1918	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71		0.00	0.000	0.028	0.1903	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72		0.01	0.000	0.033	0.1893	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73		0.00	0.000	0.027	0.1878	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74		0.00	0.000	0.025	0.1864	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75		0.00	0.000	0.025	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
76		0.00	0.000	0.025	0.1836	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77		0.00	0.000	0.026	0.1821	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78		0.00	0.000	0.027	0.1807	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79		0.00	0.000	0.023	0.1794	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80		0.00	0.000	0.024	0.1781	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81		0.15	0.000	0.032	0.1848	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82		0.00	0.000	0.023	0.1835	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83		0.00	0.000	0.022	0.1823	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84	*	0.00	0.000	0.021	0.1811	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85	*	0.00	0.000	0.022	0.1799	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86		0.00	0.000	0.024	0.1785	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
87		0.00	0.000	0.021	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
88		0.05	0.000	0.029	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89		0.00	0.000	0.027	0.1769	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90		0.00	0.000	0.031	0.1752	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91		0.00	0.000	0.027	0.1737	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92		0.00	0.000	0.024	0.1724	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
93	*	0.00	0.000	0.021	0.1712	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
94		0.00	0.000	0.020	0.1701	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95		0.00	0.000	0.024	0.1687	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96		0.00	0.000	0.020	0.1676	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97		0.14	0.000	0.028	0.1738	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98	0.02	0.000	0.029	0.1736	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99	0.00	0.000	0.032	0.1718	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100	0.00	0.000	0.033	0.1700	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101	0.00	0.000	0.031	0.1683	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
102	0.00	0.000	0.055	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
103	0.00	0.000	0.043	0.1629	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
104	0.00	0.000	0.030	0.1613	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105	0.11	0.000	0.041	0.1651	0.0008	0.0040	6.80E-09	0.0000	0.0000	6.80E-09
106	0.00	0.000	0.038	0.1630	0.0000	0.0000	2.25E-09	0.0000	0.0000	6.80E-09
107	0.00	0.000	0.030	0.1613	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
108	0.00	0.000	0.027	0.1598	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
109	0.21	0.000	0.044	0.1689	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
110	0.12	0.000	0.046	0.1726	0.0006	0.0032	2.27E-09	0.0000	0.0000	6.80E-09
111	0.00	0.000	0.062	0.1692	0.0000	0.0000	4.53E-09	0.0000	0.0000	6.80E-09
112	0.00	0.000	0.031	0.1675	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
113	0.00	0.000	0.048	0.1648	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
114	0.00	0.000	0.049	0.1621	0.0000	0.0000	3.01E-09	0.0000	0.0000	6.80E-09
115	0.00	0.000	0.051	0.1592	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
116	0.00	0.000	0.030	0.1576	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
117	0.00	0.000	0.030	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
118	0.00	0.000	0.038	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
119	0.72	0.000	0.044	0.1911	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
120	0.00	0.000	0.249	0.1773	0.0000	0.0000	4.53E-09	0.0000	0.0000	6.80E-09
121	0.00	0.000	0.091	0.1723	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
122	0.00	0.000	0.111	0.1661	0.0001	0.0003	6.80E-09	0.0000	0.0000	6.80E-09
123	0.00	0.000	0.087	0.1612	0.0000	0.0000	1.74E-09	0.0000	0.0000	6.80E-09
124	0.00	0.000	0.102	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125	1.84	0.000	0.085	0.2533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126	0.00	0.000	0.273	0.2382	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127	0.00	0.000	0.279	0.2227	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
128	0.00	0.000	0.223	0.2104	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129	0.00	0.000	0.194	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130	0.00	0.000	0.213	0.1877	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131	0.00	0.000	0.223	0.1753	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132	0.39	0.000	0.107	0.1909	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.00	0.000	0.341	0.1720	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
134	0.00	0.000	0.165	0.1628	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.00	0.000	0.154	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
136	0.00	0.000	0.018	0.1532	0.0000	0.0000	2.22E-09	0.0000	0.0000	6.80E-09
137	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
138	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
139	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
140	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
142	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
143	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	0.01	0.000	0.006	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
148	0.81	0.000	0.076	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
149	0.30	0.000	0.105	0.2045	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	0.07	0.000	0.220	0.1958	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.08	0.000	0.314	0.1828	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.06	0.000	0.228	0.1735	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	0.00	0.000	0.166	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	0.00	0.000	0.151	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
155	0.00	0.000	0.036	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
156	0.54	0.000	0.099	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
157	0.00	0.000	0.057	0.1752	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
158	0.00	0.000	0.182	0.1651	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.172	0.1555	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.033	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.009	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
162	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
163	0.16	0.000	0.022	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
164	0.00	0.000	0.070	0.1570	0.0000	0.0000	6.34E-09	0.0000	0.0000	6.80E-09
165	0.00	0.000	0.055	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
166	0.09	0.000	0.048	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
167	0.42	0.000	0.074	0.1757	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

168	0.23	0.000	0.176	0.1787	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
169	0.00	0.000	0.273	0.1635	0.0000	0.0001	6.12E-09	0.0000	0.0000	6.80E-09
170	0.67	0.000	0.269	0.1859	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
171	0.00	0.000	0.208	0.1743	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
172	0.00	0.000	0.136	0.1667	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
173	0.28	0.000	0.245	0.1684	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
174	0.00	0.000	0.139	0.1607	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
175	0.00	0.000	0.106	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
176	0.00	0.000	0.023	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
177	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
178	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
179	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
180	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
181	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
182	0.01	0.000	0.006	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
183	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
184	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
185	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
186	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
187	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
188	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
189	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
190	0.10	0.000	0.026	0.1573	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
191	0.04	0.000	0.046	0.1568	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
192	0.00	0.000	0.037	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
193	0.00	0.000	0.026	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
194	0.00	0.000	0.005	0.1531	0.0000	0.0000	1.80E-09	0.0000	0.0000	6.80E-09
195	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
196	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
197	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
199	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
200	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
205	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.41	0.000	0.123	0.1688	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.00	0.000	0.095	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
208	0.93	0.000	0.145	0.2073	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
209	0.06	0.000	0.143	0.2028	0.0000	0.0000	1.98E-09	0.0000	0.0000	6.80E-09
210	0.00	0.000	0.327	0.1846	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
211	0.65	0.000	0.136	0.2131	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
212	0.36	0.000	0.331	0.2146	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
213	0.06	0.000	0.369	0.1976	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
214	0.00	0.000	0.296	0.1811	0.0000	0.0001	1.33E-08	0.0000	0.0000	6.80E-09
215	0.00	0.000	0.235	0.1681	0.0000	0.0000	4.34E-19	0.0000	0.0000	6.80E-09
216	0.22	0.000	0.232	0.1673	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
217	0.00	0.000	0.173	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
218	0.00	0.000	0.061	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
219	0.00	0.000	0.016	0.1534	0.0000	0.0000	1.11E-16	0.0000	0.0000	6.80E-09
220	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
221	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
222	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
223	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
224	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
225	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
226	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
230	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
232	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
235	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
236	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
237	0.49	0.000	0.059	0.1768	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

238	0.17	0.000	0.054	0.1835	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.00	0.000	0.207	0.1720	0.0000	0.0000	5.51E-17	0.0000	0.0000	6.80E-09
240	0.01	0.000	0.083	0.1677	0.0000	0.0000	2.05E-09	0.0000	0.0000	6.80E-09
241	0.00	0.000	0.108	0.1617	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
242	0.00	0.000	0.127	0.1547	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
243	0.99	0.000	0.157	0.2009	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.02	0.000	0.199	0.1912	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.11	0.000	0.253	0.1830	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.23	0.000	0.294	0.1798	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.280	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.00	0.000	0.124	0.1573	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.52	0.000	0.155	0.1777	0.0000	0.0000	4.23E-09	0.0000	0.0000	6.80E-09
250	0.79	0.000	0.126	0.2145	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.01	0.000	0.100	0.2095	0.0001	0.0006	6.69E-09	0.0000	0.0000	6.80E-09
252	0.00	0.000	0.195	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.00	0.000	0.216	0.1867	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.222	0.1743	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.00	0.000	0.184	0.1641	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.176	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.08	0.000	0.043	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.06	0.000	0.054	0.1568	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.00	0.000	0.022	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.00	0.000	0.027	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
261	0.00	0.000	0.013	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.05	0.000	0.031	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.013	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.02	0.000	0.030	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.07	0.000	0.041	0.1550	0.0000	0.0000	4.54E-09	0.0000	0.0000	6.80E-09
266	0.01	0.000	0.022	0.1541	0.0000	0.0000	4.12E-10	0.0000	0.0000	6.80E-09
267	0.00	0.000	0.017	0.1533	0.0000	0.0000	6.76E-09	0.0000	0.0000	6.80E-09
268	0.82	0.000	0.102	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.06	0.000	0.154	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
270	0.08	0.000	0.204	0.1814	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.78	0.000	0.104	0.2188	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
272	0.00	0.000	0.232	0.2059	0.0000	0.0000	6.77E-09	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.122	0.1991	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.164	0.1900	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
275	0.00	0.000	0.286	0.1741	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.202	0.1629	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.00	0.000	0.144	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.00	0.000	0.022	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.00	0.000	0.011	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
280	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
284	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.24	0.000	0.031	0.1647	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.040	0.1624	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.048	0.1597	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.042	0.1574	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.055	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.017	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	1.62	0.000	0.077	0.2392	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.62	0.000	0.120	0.2670	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.19	0.000	0.232	0.2648	0.0000	0.0001	6.80E-09	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.107	0.2588	0.0000	0.0000	6.45E-10	0.0000	0.0000	6.80E-09
295	0.18	0.000	0.139	0.2611	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.15	0.000	0.172	0.2597	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
297	0.09	0.000	0.163	0.2557	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
298	0.00	0.000	0.104	0.2499	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
299	0.00	0.000	0.145	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
300	0.00	0.000	0.196	0.2310	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
301	0.00	0.000	0.089	0.2261	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
302	0.00	0.000	0.088	0.2212	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
303	0.00	0.000	0.136	0.2137	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
304	0.00	0.000	0.109	0.2076	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
305	0.31	0.000	0.137	0.2174	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
306	0.16	0.000	0.144	0.2185	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.130	0.2113	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

308		0.00	0.000	0.120	0.2047	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
309		0.04	0.000	0.099	0.2014	0.0001	0.0004	6.64E-09	0.0000	0.0000	6.80E-09
310		0.22	0.000	0.136	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
311		0.07	0.000	0.071	0.2060	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
312		0.00	0.000	0.065	0.2024	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
313		0.00	0.000	0.032	0.2007	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
314		0.00	0.000	0.031	0.1989	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
315		0.00	0.000	0.075	0.1948	0.0000	0.0000	4.53E-09	0.0000	0.0000	6.80E-09
316		0.00	0.000	0.066	0.1911	0.0000	0.0000	4.48E-09	0.0000	0.0000	6.80E-09
317		0.00	0.000	0.077	0.1868	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
318		0.00	0.000	0.034	0.1849	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
319		0.00	0.000	0.058	0.1817	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
320		0.00	0.000	0.034	0.1798	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
321		0.00	0.000	0.048	0.1771	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
322		0.00	0.000	0.032	0.1753	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
323		0.00	0.000	0.051	0.1725	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
324		0.00	0.000	0.038	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325		0.00	0.000	0.024	0.1691	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326	*	0.00	0.000	0.033	0.1672	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327		0.00	0.000	0.034	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328		0.00	0.000	0.032	0.1635	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329		0.45	0.000	0.058	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330		0.13	0.000	0.070	0.1886	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331		0.00	0.000	0.056	0.1854	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332		0.00	0.000	0.058	0.1822	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333		0.00	0.000	0.068	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334		0.00	0.000	0.054	0.1755	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335		0.00	0.000	0.059	0.1722	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336		0.00	0.000	0.038	0.1701	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337		0.00	0.000	0.044	0.1677	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338		0.00	0.000	0.039	0.1655	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339		0.05	0.000	0.053	0.1654	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
340		0.01	0.000	0.027	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341		0.14	0.000	0.046	0.1693	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342		0.00	0.000	0.025	0.1679	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

343		0.00	0.000	0.025	0.1665	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344		0.00	0.000	0.020	0.1654	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
345		0.00	0.000	0.019	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
346		0.05	0.000	0.035	0.1654	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
347		0.00	0.000	0.020	0.1643	0.0000	0.0000	2.27E-09	0.0000	0.0000	6.80E-09
348		0.15	0.000	0.038	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.16	0.000	0.038	0.1771	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.023	0.1760	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
351		0.20	0.000	0.036	0.1853	0.0000	0.0000	4.54E-09	0.0000	0.0000	6.80E-09
352		0.00	0.000	0.017	0.1844	0.0000	0.0000	4.35E-09	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.014	0.1836	0.0000	0.0001	6.80E-09	0.0000	0.0000	6.80E-09
354		0.00	0.000	0.014	0.1828	0.0000	0.0000	5.68E-10	0.0000	0.0000	6.80E-09
355	*	0.00	0.000	0.000	0.1828	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356	*	0.20	0.000	0.019	0.1839	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357	*	0.00	0.000	0.017	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.00	0.000	0.080	0.1875	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359		0.04	0.000	0.064	0.1863	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360		0.05	0.000	0.035	0.1869	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361	*	0.30	0.000	0.027	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
362		0.00	0.000	0.046	0.1998	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.039	0.1976	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364		0.00	0.000	0.051	0.1947	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365		0.00	0.000	0.029	0.1931	0.0000	0.0000	2.19E-09	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 7			
	inches	cubic feet	percent
Precipitation	27.03	2,155,789.5	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	27.737	2,212,018.9	102.61
Drainage Collected from Layer 3	0.0120	957.2	0.04
Percolation/Leakage through Layer 5	0.000000	0.0156	0.00
Average Head on Top of Layer 4	0.0000	---	---

Percolation/Leakage through Layer 8	0.000002	0.1980	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.7171	-57,186.8	-2.65
Soil Water at Start of Year	62.1311	4,955,021.2	229.85
Soil Water at End of Year	61.4140	4,897,834.4	227.19
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

Daily Output for Year 8

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1	*		0.00	0.000	0.023	0.1918	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.041	0.1896	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.028	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
4			0.27	0.000	0.082	0.1986	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
5			0.06	0.000	0.060	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6	*		0.12	0.000	0.033	0.1998	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7	*		0.02	0.000	0.034	0.2009	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8			0.06	0.000	0.091	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9	*		0.26	0.000	0.031	0.2022	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10	*		0.00	0.000	0.060	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11	*		0.19	0.000	0.022	0.2044	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.07	0.000	0.000	0.2064	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13	*		0.75	0.000	0.025	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.26	0.000	0.000	0.2704	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.094	0.2724	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.00	0.000	0.073	0.2684	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.00	0.000	0.067	0.2647	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.070	0.2608	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.00	0.000	0.074	0.2567	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.00	0.000	0.177	0.2468	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.098	0.2414	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.089	0.2364	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.087	0.2316	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.066	0.2279	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.085	0.2232	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.082	0.2189	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.210	0.2072	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.185	0.1969	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.07	0.000	0.094	0.1958	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.11	0.000	0.076	0.1977	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.00	0.000	0.050	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32		0.00	0.000	0.044	0.1925	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.04	0.000	0.055	0.1917	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.05	0.000	0.052	0.1915	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.03	0.000	0.048	0.1906	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36		0.12	0.000	0.048	0.1944	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.00	0.000	0.029	0.1928	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.029	0.1912	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
39	*	0.00	0.000	0.027	0.1897	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
40		0.00	0.000	0.026	0.1882	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.025	0.1868	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
42		0.00	0.000	0.024	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43		0.00	0.000	0.024	0.1841	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44		0.00	0.000	0.023	0.1829	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45		0.00	0.000	0.022	0.1817	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.022	0.1805	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.021	0.1793	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.018	0.1783	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49		0.06	0.000	0.031	0.1800	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50		0.00	0.000	0.020	0.1789	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.019	0.1778	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52		0.00	0.000	0.018	0.1768	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53		0.00	0.000	0.018	0.1758	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54		0.00	0.000	0.018	0.1748	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.018	0.1739	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56		0.00	0.000	0.017	0.1729	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.017	0.1720	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
58		0.00	0.000	0.017	0.1710	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59		0.00	0.000	0.016	0.1701	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60		0.00	0.000	0.016	0.1692	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61		0.00	0.000	0.016	0.1683	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
62		0.00	0.000	0.016	0.1674	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63	0.00	0.000	0.015	0.1666	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64	0.00	0.000	0.015	0.1657	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65	0.00	0.000	0.015	0.1649	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66	0.39	0.000	0.024	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67	0.33	0.000	0.024	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68	0.00	0.000	0.016	0.2017	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69	0.00	0.000	0.016	0.2008	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70	0.00	0.000	0.017	0.1999	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71	0.09	0.000	0.023	0.2038	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72	0.03	0.000	0.022	0.2039	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
73	0.00	0.000	0.018	0.2031	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
74	0.02	0.000	0.022	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
75	0.01	0.000	0.021	0.2025	0.0001	0.0005	6.66E-09	0.0000	0.0000	6.80E-09
76	0.03	0.000	0.023	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
77	0.03	0.000	0.022	0.2034	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
78	0.70	0.000	0.021	0.2410	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
79	0.00	0.000	0.224	0.2286	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
80	0.00	0.000	0.309	0.2114	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
81	0.00	0.000	0.213	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
82	0.00	0.000	0.170	0.1901	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
83	0.46	0.000	0.088	0.2109	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
84	0.00	0.000	0.290	0.1948	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
85	0.10	0.000	0.071	0.1964	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
86	0.00	0.000	0.054	0.1934	0.0001	0.0005	4.54E-09	0.0000	0.0000	6.80E-09
87	0.00	0.000	0.050	0.1906	0.0000	0.0000	2.15E-09	0.0000	0.0000	6.80E-09
88	0.00	0.000	0.049	0.1879	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
89	0.00	0.000	0.052	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
90	0.04	0.000	0.053	0.1840	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
91	0.06	0.000	0.047	0.1846	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
92	0.00	0.000	0.050	0.1819	0.0000	0.0002	2.27E-09	0.0000	0.0000	6.80E-09
93	0.00	0.000	0.043	0.1795	0.0000	0.0000	4.23E-09	0.0000	0.0000	6.80E-09
94	0.01	0.000	0.037	0.1778	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
95	0.00	0.000	0.037	0.1758	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
96	0.00	0.000	0.038	0.1737	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
97	0.00	0.000	0.029	0.1721	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

98	0.17	0.000	0.035	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
99	0.03	0.000	0.038	0.1791	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
100	0.29	0.000	0.039	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
101	0.08	0.000	0.037	0.1956	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
102	0.00	0.000	0.028	0.1940	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.95E-09
103	0.14	0.000	0.050	0.1992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.136	0.1916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.02	0.000	0.038	0.1907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.31	0.000	0.047	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.40	0.000	0.219	0.2152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.296	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.03	0.000	0.103	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.23	0.000	0.071	0.2037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.01	0.000	0.085	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.18	0.000	0.292	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.215	0.1813	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.02	0.000	0.103	0.1764	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.01	0.000	0.090	0.1721	0.0000	0.0000	4.52E-09	0.0000	0.0000	3.39E-09
116	0.00	0.000	0.069	0.1683	0.0001	0.0004	2.27E-09	0.0000	0.0000	2.83E-09
117	0.00	0.000	0.060	0.1650	0.0000	0.0000	4.35E-09	0.0000	0.0000	4.92E-09
118	0.00	0.000	0.093	0.1599	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
119	0.05	0.000	0.100	0.1570	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.01	0.000	0.042	0.1551	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.018	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.012	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.006	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.14	0.000	0.015	0.1599	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.63	0.000	0.029	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.06	0.000	0.088	0.1914	0.0000	0.0000	1.64E-09	0.0000	0.0000	1.64E-09
130	0.00	0.000	0.066	0.1878	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
131	0.00	0.000	0.068	0.1840	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.42E-14
132	0.00	0.000	0.094	0.1788	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.16	0.000	0.093	0.1822	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.06	0.000	0.266	0.1710	0.0000	0.0000	1.47E-09	0.0000	0.0000	1.47E-09
135	0.05	0.000	0.151	0.1656	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.42E-14
136	0.00	0.000	0.124	0.1587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.070	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.022	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.008	0.1532	0.0000	0.0001	6.26E-09	0.0000	0.0000	5.10E-09
140	0.00	0.000	0.002	0.1531	0.0000	0.0001	6.80E-09	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.001	0.1530	0.0000	0.0000	8.81E-10	0.0000	0.0000	1.82E-09
142	0.42	0.000	0.085	0.1716	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.20E-10
143	0.17	0.000	0.143	0.1733	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
144	0.00	0.000	0.113	0.1670	0.0000	0.0000	4.36E-09	0.0000	0.0000	3.27E-09
145	0.00	0.000	0.094	0.1618	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.09E-09
146	0.00	0.000	0.100	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.041	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.11	0.000	0.044	0.1575	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
149	0.00	0.000	0.041	0.1553	0.0000	0.0000	2.67E-09	0.0000	0.0000	2.67E-09
150	0.00	0.000	0.025	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.16	0.000	0.047	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.094	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.31	0.000	0.117	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.17	0.000	0.170	0.1652	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.125	0.1583	0.0000	0.0001	6.80E-09	0.0000	0.0000	5.10E-09
156	0.00	0.000	0.071	0.1543	0.0000	0.0000	1.27E-09	0.0000	0.0000	2.97E-09
157	0.00	0.000	0.016	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
158	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.48	0.000	0.107	0.1736	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.070	0.1698	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.116	0.1634	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.13	0.000	0.085	0.1659	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.02	0.000	0.182	0.1567	0.0000	0.0000	1.80E-09	0.0000	0.0000	1.80E-09

168	0.29	0.000	0.109	0.1668	0.0000	0.0000	4.36E-09	0.0000	0.0000	3.27E-09
169	0.08	0.000	0.117	0.1645	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.09E-09
170	0.00	0.000	0.156	0.1561	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.038	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.013	0.1532	0.0000	0.0000	1.28E-09	0.0000	0.0000	1.28E-09
173	0.00	0.000	0.002	0.1531	0.0000	0.0000	1.10E-09	0.0000	0.0000	1.10E-09
174	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.004	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	1.40	0.000	0.100	0.2253	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.15	0.000	0.138	0.2259	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.27	0.000	0.371	0.2202	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.04	0.000	0.190	0.2116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.03	0.000	0.133	0.2058	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.15	0.000	0.281	0.1983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.298	0.1818	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.08	0.000	0.361	0.1661	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.186	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.034	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.014	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.58	0.000	0.076	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.35	0.000	0.073	0.1963	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.07	0.000	0.297	0.1839	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.231	0.1711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.196	0.1602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.112	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.016	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.11	0.000	0.043	0.1568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	1.20	0.000	0.064	0.2197	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.271	0.2046	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.186	0.1943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.192	0.1836	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.282	0.1679	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.182	0.1578	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.065	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.021	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.06	0.000	0.037	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.15	0.000	0.034	0.1606	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.083	0.1562	0.0000	0.0000	6.34E-09	0.0000	0.0000	5.10E-09
221	0.01	0.000	0.050	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.24E-09
222	0.00	0.000	0.013	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.05	0.000	0.042	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.013	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.006	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.002	0.1531	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
227	0.20	0.000	0.049	0.1614	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.42E-14
228	0.00	0.000	0.088	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.040	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.015	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.08	0.000	0.038	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.016	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.019	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.35	0.000	0.078	0.1684	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.056	0.1655	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.26	0.000	0.147	0.1719	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.090	0.1670	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.156	0.1583	0.0000	0.0000	6.78E-09	0.0000	0.0000	5.10E-09
240	0.11	0.000	0.115	0.1581	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.68E-09
241	0.00	0.000	0.046	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.031	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.011	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.05	0.000	0.035	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.40	0.000	0.081	0.1711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.192	0.1604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.087	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.031	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.06	0.000	0.047	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.78	0.000	0.076	0.1939	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.04	0.000	0.106	0.1900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.089	0.1851	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.191	0.1745	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.171	0.1650	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	1.31	0.000	0.118	0.2314	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.097	0.2260	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.104	0.2202	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.08	0.000	0.099	0.2189	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.15	0.000	0.083	0.2226	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.245	0.2090	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.200	0.1979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.094	0.1927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.95	0.000	0.114	0.2392	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.02	0.000	0.124	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.139	0.2257	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.231	0.2128	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.08	0.000	0.261	0.2025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.227	0.1899	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.03	0.000	0.090	0.1867	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	1.23	0.000	0.107	0.2494	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.158	0.2406	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.132	0.2333	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.18	0.000	0.108	0.2375	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.111	0.2313	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.203	0.2200	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.224	0.2076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.215	0.1956	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.164	0.1865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.180	0.1765	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.35	0.000	0.203	0.1849	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.169	0.1755	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.158	0.1667	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.194	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.047	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.16	0.000	0.033	0.1602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	1.58	0.000	0.055	0.2450	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.37	0.000	0.059	0.2623	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.45	0.000	0.078	0.2832	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.01	0.000	0.052	0.2807	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.14	0.000	0.173	0.2786	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	1.25	0.000	0.072	0.3439	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.093	0.3303	0.0227	0.1133	1.02E-08	0.0000	0.0000	5.10E-09
305	0.00	0.000	0.059	0.3166	0.0402	0.2011	1.43E-08	0.0000	0.0000	6.80E-09
306	0.00	0.000	0.048	0.3071	0.0260	0.1301	1.36E-08	0.0000	0.0000	6.80E-09
307	0.00	0.000	0.064	0.2986	0.0185	0.0923	1.36E-08	0.0000	0.0000	6.80E-09

308	0.00	0.000	0.125	0.2876	0.0153	0.0765	1.36E-08	0.0000	0.0000	6.80E-09
309	0.00	0.000	0.130	0.2772	0.0121	0.0605	1.36E-08	0.0000	0.0000	6.80E-09
310	0.00	0.000	0.181	0.2651	0.0078	0.0388	1.36E-08	0.0000	0.0000	6.80E-09
311	0.00	0.000	0.154	0.2545	0.0074	0.0369	1.36E-08	0.0000	0.0000	6.80E-09
312	0.00	0.000	0.217	0.2408	0.0060	0.0301	1.36E-08	0.0000	0.0000	6.80E-09
313	0.00	0.000	0.183	0.2287	0.0068	0.0342	1.36E-08	0.0000	0.0000	6.80E-09
314	0.00	0.000	0.123	0.2204	0.0058	0.0290	1.36E-08	0.0000	0.0000	6.80E-09
315	0.00	0.000	0.059	0.2158	0.0047	0.0233	1.36E-08	0.0000	0.0000	6.80E-09
316	0.00	0.000	0.059	0.2113	0.0042	0.0210	1.36E-08	0.0000	0.0000	6.80E-09
317	0.00	0.000	0.051	0.2075	0.0037	0.0185	1.36E-08	0.0000	0.0000	6.80E-09
318	0.00	0.000	0.045	0.2043	0.0028	0.0138	1.36E-08	0.0000	0.0000	6.80E-09
319	0.00	0.000	0.041	0.2015	0.0022	0.0109	1.36E-08	0.0000	0.0000	6.80E-09
320	0.00	0.000	0.038	0.1989	0.0018	0.0090	1.36E-08	0.0000	0.0000	6.80E-09
321	0.00	0.000	0.036	0.1964	0.0015	0.0077	1.36E-08	0.0000	0.0000	6.80E-09
322	0.00	0.000	0.035	0.1941	0.0013	0.0067	1.36E-08	0.0000	0.0000	6.80E-09
323	0.00	0.000	0.033	0.1921	0.0008	0.0040	1.35E-08	0.0000	0.0000	6.80E-09
324	0.89	0.000	0.057	0.2384	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325	0.00	0.000	0.089	0.2334	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326	0.12	0.000	0.104	0.2342	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327	0.93	0.000	0.053	0.2832	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328	0.00	0.000	0.031	0.2814	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329	0.00	0.000	0.048	0.2788	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330	0.00	0.000	0.044	0.2764	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331	0.00	0.000	0.058	0.2731	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
332	0.00	0.000	0.053	0.2702	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
333	0.00	0.000	0.108	0.2642	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
334	0.57	0.000	0.073	0.2916	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
335	0.07	0.000	0.147	0.2872	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
336	0.19	0.000	0.100	0.2921	0.0001	0.0004	2.27E-09	0.0000	0.0000	6.80E-09
337	0.00	0.000	0.073	0.2881	0.0000	0.0000	4.34E-09	0.0000	0.0000	6.80E-09
338	0.07	0.000	0.065	0.2881	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339	0.00	0.000	0.071	0.2842	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
340	0.00	0.000	0.085	0.2794	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
341	0.09	0.000	0.093	0.2791	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
342	0.15	0.000	0.084	0.2828	0.0001	0.0004	6.80E-09	0.0000	0.0000	6.80E-09

343		0.39	0.000	0.090	0.2995	0.0000	0.0002	4.69E-09	0.0000	0.0000	6.80E-09
344		0.74	0.000	0.108	0.3347	0.0000	0.0000	1.94E-09	0.0000	0.0000	6.80E-09
345		0.00	0.000	0.058	0.3284	0.0049	0.0243	1.13E-08	0.0000	0.0000	6.80E-09
346		0.00	0.000	0.069	0.3157	0.0340	0.1701	1.36E-08	0.0000	0.0000	6.80E-09
347		0.00	0.000	0.067	0.3060	0.0229	0.1146	1.36E-08	0.0000	0.0000	6.80E-09
348	*	0.00	0.000	0.044	0.2990	0.0170	0.0847	1.36E-08	0.0000	0.0000	6.80E-09
349		0.00	0.000	0.033	0.2931	0.0152	0.0759	1.36E-08	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.060	0.2865	0.0122	0.0611	1.36E-08	0.0000	0.0000	6.80E-09
351	*	0.00	0.000	0.048	0.2813	0.0096	0.0480	1.36E-08	0.0000	0.0000	6.80E-09
352		0.00	0.000	0.054	0.2762	0.0078	0.0391	1.36E-08	0.0000	0.0000	6.80E-09
353	*	0.62	0.000	0.020	0.2757	0.0057	0.0287	1.36E-08	0.0000	0.0000	6.80E-09
354	*	0.02	0.000	0.013	0.2752	0.0059	0.0294	1.36E-08	0.0000	0.0000	6.80E-09
355		0.42	0.000	0.000	0.3288	0.0055	0.0274	1.36E-08	0.0000	0.0000	6.80E-09
356		0.05	0.000	0.079	0.3265	0.0038	0.0188	1.36E-08	0.0000	0.0000	6.80E-09
357	*	0.04	0.000	0.058	0.3196	0.0160	0.0801	1.24E-08	0.0000	0.0000	6.80E-09
358	*	0.00	0.000	0.000	0.3130	0.0252	0.1257	1.36E-08	0.0000	0.0000	6.80E-09
359		0.00	0.000	0.060	0.3050	0.0174	0.0867	1.36E-08	0.0000	0.0000	6.80E-09
360		0.05	0.000	0.074	0.3005	0.0127	0.0636	1.36E-08	0.0000	0.0000	6.80E-09
361		0.00	0.000	0.047	0.2952	0.0093	0.0463	1.36E-08	0.0000	0.0000	6.80E-09
362		0.00	0.000	0.067	0.2887	0.0103	0.0513	1.36E-08	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.087	0.2815	0.0089	0.0443	1.36E-08	0.0000	0.0000	6.80E-09
364		0.02	0.000	0.084	0.2759	0.0080	0.0400	1.36E-08	0.0000	0.0000	6.80E-09
365		0.49	0.000	0.091	0.2968	0.0057	0.0284	1.36E-08	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 8			
	inches	cubic feet	percent
Precipitation	31.55	2,516,209.5	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	27.432	2,187,724.6	86.95
Drainage Collected from Layer 3	2.2720	181,196.2	7.20
Percolation/Leakage through Layer 5	0.000001	0.0541	0.00
Average Head on Top of Layer 4	0.0012	---	---

Percolation/Leakage through Layer 8	0.000001	0.0949	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	1.8469	147,288.6	5.85
Soil Water at Start of Year	61.4140	4,897,834.4	194.65
Soil Water at End of Year	63.2609	5,045,123.0	200.50
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

Daily Output for Year 9

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.120	0.2873	0.0054	0.0272	1.36E-08	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.077	0.2821	0.0035	0.0174	1.36E-08	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.065	0.2773	0.0044	0.0220	1.36E-08	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.114	0.2698	0.0043	0.0214	1.36E-08	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.176	0.2584	0.0056	0.0280	1.36E-08	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.177	0.2481	0.0026	0.0129	1.36E-08	0.0000	0.0000	6.80E-09
7			0.00	0.000	0.138	0.2400	0.0011	0.0056	1.36E-08	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.080	0.2348	0.0024	0.0121	1.36E-08	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.093	0.2288	0.0031	0.0154	1.36E-08	0.0000	0.0000	6.80E-09
10			0.05	0.000	0.109	0.2246	0.0025	0.0125	1.36E-08	0.0000	0.0000	6.80E-09
11			0.08	0.000	0.113	0.2224	0.0021	0.0104	1.36E-08	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.095	0.2167	0.0017	0.0086	1.36E-08	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.058	0.2135	0.0003	0.0014	7.85E-09	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.059	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.050	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.00	0.000	0.044	0.2050	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.00	0.000	0.039	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.036	0.2009	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.00	0.000	0.035	0.1990	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.02	0.000	0.036	0.1979	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.033	0.1963	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.06	0.000	0.033	0.1979	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.14	0.000	0.031	0.2041	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.89	0.000	0.030	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.87	0.000	0.107	0.2944	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.117	0.2879	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.056	0.2848	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.086	0.2800	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29		0.00	0.000	0.088	0.2751	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30	*	0.00	0.000	0.000	0.2751	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.00	0.000	0.079	0.2707	0.0000	0.0002	6.47E-09	0.0000	0.0000	6.80E-09
32		0.00	0.000	0.134	0.2632	0.0002	0.0011	6.75E-09	0.0000	0.0000	6.80E-09
33		0.04	0.000	0.124	0.2587	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.00	0.000	0.172	0.2489	0.0003	0.0014	2.27E-09	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.175	0.2391	0.0007	0.0037	1.36E-08	0.0000	0.0000	6.80E-09
36		0.00	0.000	0.264	0.2244	0.0000	0.0000	2.13E-09	0.0000	0.0000	6.80E-09
37		0.00	0.000	0.185	0.2139	0.0007	0.0035	1.13E-08	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.077	0.2091	0.0019	0.0094	1.36E-08	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.059	0.2050	0.0026	0.0128	1.36E-08	0.0000	0.0000	6.80E-09
40		0.00	0.000	0.050	0.2016	0.0026	0.0128	1.36E-08	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.044	0.1986	0.0021	0.0102	1.36E-08	0.0000	0.0000	6.80E-09
42		0.01	0.000	0.042	0.1964	0.0017	0.0085	1.36E-08	0.0000	0.0000	6.80E-09
43		0.02	0.000	0.039	0.1948	0.0015	0.0073	1.36E-08	0.0000	0.0000	6.80E-09
44		0.18	0.000	0.036	0.2026	0.0011	0.0054	1.36E-08	0.0000	0.0000	6.80E-09
45	*	0.00	0.000	0.032	0.2006	0.0012	0.0061	1.36E-08	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.030	0.1989	0.0000	0.0000	4.48E-09	0.0000	0.0000	6.80E-09
47		0.01	0.000	0.031	0.1975	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.029	0.1961	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49		0.00	0.000	0.026	0.1946	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50		0.00	0.000	0.025	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.024	0.1919	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52		0.00	0.000	0.024	0.1906	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53		0.00	0.000	0.023	0.1893	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54		0.00	0.000	0.022	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55	*	0.00	0.000	0.022	0.1869	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56		0.05	0.000	0.023	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57		0.00	0.000	0.019	0.1870	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
58		0.00	0.000	0.020	0.1859	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
59		0.00	0.000	0.019	0.1849	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
60		0.00	0.000	0.019	0.1838	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
61		0.00	0.000	0.019	0.1828	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
62		0.00	0.000	0.018	0.1818	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

63		0.00	0.000	0.018	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
64		0.17	0.000	0.020	0.1892	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
65		0.00	0.000	0.017	0.1883	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
66		0.00	0.000	0.017	0.1873	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
67		0.00	0.000	0.017	0.1864	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
68		0.00	0.000	0.017	0.1854	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
69		0.07	0.000	0.019	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
70		0.00	0.000	0.017	0.1871	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
71		0.00	0.000	0.017	0.1861	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
72		0.00	0.000	0.017	0.1852	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.33E-09
73		0.37	0.000	0.019	0.2047	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.018	0.2039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.06	0.000	0.018	0.2062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.81	0.000	0.018	0.2502	0.0000	0.0001	5.51E-09	0.0000	0.0000	5.10E-09
77		0.02	0.000	0.124	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.12E-10
78		0.00	0.000	0.195	0.2336	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.150	0.2253	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	*	0.00	0.000	0.081	0.2208	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.079	0.2164	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.14	0.000	0.066	0.2204	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.02	0.000	0.056	0.2182	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.32	0.000	0.055	0.2327	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.124	0.2259	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.23	0.000	0.157	0.2301	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.05	0.000	0.118	0.2263	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.173	0.2167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.12	0.000	0.193	0.2126	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.085	0.2079	0.0000	0.0002	6.52E-09	0.0000	0.0000	5.10E-09
91		0.21	0.000	0.064	0.2161	0.0000	0.0000	4.34E-19	0.0000	0.0000	1.42E-09
92		0.00	0.000	0.058	0.2129	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.050	0.2101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.048	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.28	0.000	0.044	0.2207	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.039	0.2186	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.19	0.000	0.042	0.2268	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.218	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.048	0.2120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.041	0.2098	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.041	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.041	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.037	0.2031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.046	0.2006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.049	0.1978	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.054	0.1948	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.053	0.1919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.76	0.000	0.059	0.2307	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.59	0.000	0.243	0.2497	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.29	0.000	0.074	0.2620	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.088	0.2571	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.152	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.245	0.2351	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.108	0.2293	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.296	0.2128	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.266	0.1980	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.272	0.1829	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.174	0.1733	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.190	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.134	0.1548	0.0016	0.0082	8.01E-09	0.0000	0.0000	5.10E-09
121	0.00	0.000	0.033	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.91E-09
122	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.01	0.000	0.005	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.05	0.000	0.020	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.10	0.000	0.020	0.1595	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	1.13	0.000	0.049	0.2196	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.00	0.000	0.103	0.2139	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.04	0.000	0.261	0.2018	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.10	0.000	0.300	0.1909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.22	0.000	0.224	0.1904	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.169	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.08	0.000	0.240	0.1723	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.41	0.000	0.271	0.1797	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.06	0.000	0.221	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.42	0.000	0.101	0.1884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.01	0.000	0.110	0.1827	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.05	0.000	0.115	0.1793	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.38	0.000	0.285	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.30	0.000	0.245	0.1876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.250	0.1737	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.273	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.078	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.017	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.02	0.000	0.026	0.1530	0.0000	0.0000	4.41E-09	0.0000	0.0000	3.31E-09
145	0.71	0.000	0.077	0.1882	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.10E-09
146	1.00	0.000	0.299	0.2273	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.05	0.000	0.133	0.2229	0.0000	0.0000	6.62E-09	0.0000	0.0000	5.10E-09
148	0.01	0.000	0.238	0.2100	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.52E-09
149	0.56	0.000	0.103	0.2354	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.249	0.2216	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.260	0.2071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.135	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.114	0.1933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.114	0.1870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.108	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.106	0.1751	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.224	0.1626	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.49	0.000	0.086	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.120	0.1783	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.114	0.1719	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
161	0.00	0.000	0.137	0.1643	0.0000	0.0000	2.12E-09	0.0000	0.0000	2.12E-09
162	0.44	0.000	0.234	0.1759	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.14	0.000	0.114	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.88	0.000	0.253	0.2122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	1.12	0.000	0.388	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.27	0.000	0.489	0.2407	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.22	0.000	0.152	0.2446	0.0000	0.0000	2.20E-09	0.0000	0.0000	2.20E-09

168	0.00	0.000	0.327	0.2264	0.0000	0.0001	9.07E-09	0.0000	0.0000	5.10E-09
169	0.00	0.000	0.174	0.2168	0.0000	0.0000	4.52E-09	0.0000	0.0000	6.80E-09
170	0.00	0.000	0.208	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.69E-09
171	0.00	0.000	0.440	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.373	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.21	0.000	0.118	0.1649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.31	0.000	0.102	0.1765	0.0000	0.0000	4.75E-09	0.0000	0.0000	4.75E-09
175	0.65	0.000	0.127	0.2055	0.0000	0.0000	1.66E-09	0.0000	0.0000	1.66E-09
176	0.00	0.000	0.163	0.1965	0.0000	0.0000	6.69E-09	0.0000	0.0000	5.10E-09
177	0.63	0.000	0.193	0.2205	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.59E-09
178	0.29	0.000	0.097	0.2312	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.01	0.000	0.111	0.2257	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.03	0.000	0.171	0.2179	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.14	0.000	0.279	0.2104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.66	0.000	0.153	0.2388	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.07	0.000	0.241	0.2293	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.99	0.000	0.137	0.2767	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	1.03	0.000	0.165	0.3247	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.198	0.3137	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.132	0.3059	0.0006	0.0028	2.27E-09	0.0000	0.0000	2.27E-09
188	0.00	0.000	0.246	0.2873	0.0157	0.0785	1.36E-08	0.0000	0.0000	5.10E-09
189	0.00	0.000	0.289	0.2671	0.0164	0.0822	1.36E-08	0.0000	0.0000	6.80E-09
190	0.00	0.000	0.144	0.2559	0.0112	0.0557	1.36E-08	0.0000	0.0000	6.80E-09
191	0.00	0.000	0.371	0.2329	0.0096	0.0482	1.36E-08	0.0000	0.0000	6.80E-09
192	0.18	0.000	0.353	0.2207	0.0082	0.0411	1.36E-08	0.0000	0.0000	6.80E-09
193	0.00	0.000	0.140	0.2110	0.0075	0.0376	1.36E-08	0.0000	0.0000	6.80E-09
194	0.47	0.000	0.384	0.2139	0.0070	0.0352	1.36E-08	0.0000	0.0000	6.80E-09
195	0.17	0.000	0.305	0.2052	0.0054	0.0271	1.36E-08	0.0000	0.0000	6.80E-09
196	0.06	0.000	0.476	0.1806	0.0054	0.0268	1.29E-08	0.0000	0.0000	6.80E-09
197	1.39	0.000	0.116	0.2509	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
198	0.02	0.000	0.174	0.2423	0.0010	0.0051	7.35E-09	0.0000	0.0000	6.80E-09
199	0.40	0.000	0.155	0.2560	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
200	0.54	0.000	0.435	0.2619	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
201	0.03	0.000	0.352	0.2438	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
202	1.28	0.000	0.141	0.3073	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

203	0.06	0.000	0.354	0.2912	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
204	0.10	0.000	0.164	0.2875	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
205	0.24	0.000	0.461	0.2750	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
206	0.00	0.000	0.408	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
207	0.17	0.000	0.329	0.2431	0.0007	0.0035	8.86E-09	0.0000	0.0000	6.80E-09
208	0.17	0.000	0.344	0.2333	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.55E-09
209	0.50	0.000	0.337	0.2419	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
210	0.00	0.000	0.407	0.2192	0.0011	0.0057	1.36E-08	0.0000	0.0000	5.10E-09
211	0.00	0.000	0.383	0.1964	0.0044	0.0221	1.36E-08	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.278	0.1794	0.0067	0.0335	1.36E-08	0.0000	0.0000	6.80E-09
213	0.00	0.000	0.207	0.1679	0.0000	0.0000	3.24E-09	0.0000	0.0000	6.80E-09
214	0.00	0.000	0.151	0.1595	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
215	0.18	0.000	0.182	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
216	0.02	0.000	0.101	0.1552	0.0000	0.0000	1.11E-16	0.0000	0.0000	4.94E-09
217	0.25	0.000	0.079	0.1648	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
218	0.19	0.000	0.092	0.1704	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.10	0.000	0.220	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.123	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.049	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.012	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	1.42	0.000	0.151	0.2233	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.01	0.000	0.291	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.352	0.1879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.376	0.1670	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.203	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.17	0.000	0.096	0.1601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.076	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.031	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.012	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.44	0.000	0.096	0.1724	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.06	0.000	0.149	0.1677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.169	0.1583	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.082	0.1537	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
239	0.00	0.000	0.010	0.1532	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
240	0.14	0.000	0.045	0.1583	0.0000	0.0000	2.21E-09	0.0000	0.0000	2.21E-09
241	0.00	0.000	0.047	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.022	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.019	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.001	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
248	0.06	0.000	0.042	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.07	0.000	0.045	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.59	0.000	0.075	0.1838	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.161	0.1749	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.43	0.000	0.102	0.1931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.02	0.000	0.262	0.1799	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.35	0.000	0.106	0.1935	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.28	0.000	0.097	0.2037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.221	0.1914	0.0001	0.0003	6.80E-09	0.0000	0.0000	5.10E-09
257	0.01	0.000	0.231	0.1794	0.0000	0.0000	1.74E-09	0.0000	0.0000	3.44E-09
258	0.00	0.000	0.257	0.1651	0.0001	0.0003	6.80E-09	0.0000	0.0000	5.10E-09
259	0.00	0.000	0.157	0.1564	0.0000	0.0000	1.86E-09	0.0000	0.0000	3.56E-09
260	0.00	0.000	0.041	0.1541	0.0002	0.0009	6.80E-09	0.0000	0.0000	5.10E-09
261	0.00	0.000	0.013	0.1534	0.0000	0.0000	2.12E-09	0.0000	0.0000	3.82E-09
262	0.00	0.000	0.007	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
263	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.24	0.000	0.044	0.1637	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
266	0.09	0.000	0.120	0.1618	0.0000	0.0000	1.36E-08	0.0000	0.0000	5.10E-09
267	0.27	0.000	0.088	0.1721	0.0000	0.0000	9.27E-10	0.0000	0.0000	6.80E-09
268	0.00	0.000	0.062	0.1687	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.63E-09
269	0.00	0.000	0.069	0.1649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.106	0.1590	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.089	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.013	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273		0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274		0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275		0.03	0.000	0.028	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292		0.10	0.000	0.037	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	*	0.04	0.000	0.047	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	*	0.01	0.000	0.006	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295		0.00	0.000	0.023	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296		0.00	0.000	0.012	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297		0.00	0.000	0.015	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298		0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299		0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300		2.96	0.000	0.075	0.3130	0.0000	0.0000	4.53E-09	0.0000	0.0000	3.40E-09
301		0.00	0.000	0.189	0.3025	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
302		0.00	0.000	0.114	0.2962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303		0.00	0.000	0.347	0.2769	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304		0.00	0.000	0.392	0.2547	0.0009	0.0046	1.13E-08	0.0000	0.0000	5.10E-09
305		0.00	0.000	0.180	0.2424	0.0071	0.0356	1.36E-08	0.0000	0.0000	6.80E-09
306		0.00	0.000	0.109	0.2341	0.0084	0.0420	1.36E-08	0.0000	0.0000	6.80E-09
307		0.00	0.000	0.125	0.2250	0.0081	0.0403	1.36E-08	0.0000	0.0000	6.80E-09

308		0.00	0.000	0.177	0.2135	0.0067	0.0333	1.36E-08	0.0000	0.0000	6.80E-09
309		0.13	0.000	0.142	0.2114	0.0054	0.0268	1.36E-08	0.0000	0.0000	6.80E-09
310		0.00	0.000	0.104	0.2046	0.0040	0.0201	1.36E-08	0.0000	0.0000	6.80E-09
311		0.00	0.000	0.055	0.2004	0.0036	0.0179	1.36E-08	0.0000	0.0000	6.80E-09
312		0.00	0.000	0.110	0.1933	0.0037	0.0183	1.36E-08	0.0000	0.0000	6.80E-09
313		0.00	0.000	0.089	0.1874	0.0038	0.0192	1.36E-08	0.0000	0.0000	6.80E-09
314		0.00	0.000	0.099	0.1812	0.0023	0.0113	1.36E-08	0.0000	0.0000	6.80E-09
315		0.00	0.000	0.046	0.1778	0.0034	0.0168	1.36E-08	0.0000	0.0000	6.80E-09
316		0.00	0.000	0.014	0.1764	0.0024	0.0120	1.36E-08	0.0000	0.0000	6.80E-09
317		0.00	0.000	0.092	0.1705	0.0032	0.0162	1.07E-08	0.0000	0.0000	6.80E-09
318		0.00	0.000	0.081	0.1660	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
319		0.00	0.000	0.072	0.1620	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
320		0.00	0.000	0.076	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
321		0.00	0.000	0.076	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
322		0.05	0.000	0.045	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
323		0.04	0.000	0.031	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
324		0.07	0.000	0.037	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
325		0.00	0.000	0.004	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
326		0.00	0.000	0.010	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
327		0.00	0.000	0.013	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
328		0.00	0.000	0.005	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
329		0.14	0.000	0.045	0.1601	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
330		0.69	0.000	0.050	0.1954	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
331		0.00	0.000	0.021	0.1942	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.37E-09
332		0.60	0.000	0.047	0.2248	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.013	0.2241	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.050	0.2213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.031	0.2195	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	*	0.00	0.000	0.020	0.2185	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.032	0.2167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.034	0.2148	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.07	0.000	0.063	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.037	0.2130	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	*	0.00	0.000	0.018	0.2119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.039	0.2098	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	*	0.00	0.000	0.027	0.2083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	*	0.00	0.000	0.000	0.2083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345		0.00	0.000	0.024	0.2069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346		0.00	0.000	0.050	0.2042	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347		0.00	0.000	0.036	0.2022	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348		0.00	0.000	0.051	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349		0.00	0.000	0.041	0.1970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350		0.00	0.000	0.046	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351		0.05	0.000	0.054	0.1941	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352		0.10	0.000	0.061	0.1965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353		0.00	0.000	0.035	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	*	0.00	0.000	0.000	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355		0.00	0.000	0.039	0.1924	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356		0.77	0.000	0.108	0.2290	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357		0.00	0.000	0.073	0.2249	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358		0.63	0.000	0.075	0.2560	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359		0.03	0.000	0.080	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360		0.20	0.000	0.072	0.2603	0.0000	0.0002	2.27E-09	0.0000	0.0000	2.27E-09
361		0.00	0.000	0.027	0.2588	0.0000	0.0000	4.11E-09	0.0000	0.0000	3.08E-09
362		0.00	0.000	0.083	0.2542	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.03E-09
363		0.00	0.000	0.035	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364		0.00	0.000	0.053	0.2493	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365		0.00	0.000	0.043	0.2469	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 9			
	inches	cubic feet	percent
Precipitation	39.29	3,133,713.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	39.065	3,115,510.5	99.42
Drainage Collected from Layer 3	1.1074	88,313.0	2.82
Percolation/Leakage through Layer 5	0.000001	0.0657	0.00
Average Head on Top of Layer 4	0.0006	---	---

Percolation/Leakage through Layer 8	0.000001	0.0783	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.8791	-70,110.5	-2.24
Soil Water at Start of Year	63.2609	5,045,123.0	161.00
Soil Water at End of Year	62.3817	4,975,012.5	158.76
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

Daily Output for Year 10

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
	Air	Soil										
1			0.00	0.000	0.069	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.045	0.2405	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.060	0.2372	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.062	0.2337	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.053	0.2308	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.00	0.000	0.045	0.2283	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.04	0.000	0.101	0.2249	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.064	0.2213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.066	0.2177	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.04	0.000	0.100	0.2144	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.086	0.2096	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.127	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.093	0.1974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.00	0.000	0.098	0.1920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.63	0.000	0.061	0.2238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.031	0.2220	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.02	0.000	0.045	0.2208	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.060	0.2175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.065	0.2139	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.062	0.2105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.071	0.2065	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.02	0.000	0.124	0.2010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.17	0.000	0.091	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.74	0.000	0.100	0.2408	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.76	0.000	0.054	0.2801	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.056	0.2770	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27	*		0.00	0.000	0.000	0.2770	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.00	0.000	0.043	0.2746	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.00	0.000	0.075	0.2704	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30	*	0.00	0.000	0.028	0.2689	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31	*	0.00	0.000	0.000	0.2689	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32	*	0.06	0.000	0.067	0.2686	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33	*	0.00	0.000	0.000	0.2686	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34	*	0.43	0.000	0.034	0.2697	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.00	0.000	0.036	0.2726	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36		0.00	0.000	0.073	0.2846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.00	0.000	0.131	0.2773	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.085	0.2726	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.084	0.2680	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.079	0.2635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.041	0.2612	0.0001	0.0006	4.54E-09	0.0000	0.0000	3.40E-09
42		0.00	0.000	0.096	0.2558	0.0002	0.0011	1.36E-08	0.0000	0.0000	6.80E-09
43		0.00	0.000	0.051	0.2530	0.0000	0.0000	2.76E-10	0.0000	0.0000	6.80E-09
44		0.00	0.000	0.063	0.2495	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.41E-09
45		0.00	0.000	0.036	0.2475	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		0.00	0.000	0.058	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.072	0.2405	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.59	0.000	0.109	0.2674	0.0003	0.0016	4.54E-09	0.0000	0.0000	3.40E-09
49	*	0.14	0.000	0.069	0.2685	0.0000	0.0002	8.76E-09	0.0000	0.0000	6.80E-09
50	*	0.13	0.000	0.078	0.2696	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.09E-09
51		0.00	0.000	0.087	0.2691	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52	*	0.01	0.000	0.039	0.2673	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.043	0.2650	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.145	0.2569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.059	0.2536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.164	0.2445	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.113	0.2383	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.03	0.000	0.123	0.2332	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
59		0.19	0.000	0.100	0.2382	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.118	0.2316	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.113	0.2253	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.222	0.2130	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.01	0.000	0.096	0.2081	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.07	0.000	0.091	0.2072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*	0.04	0.000	0.047	0.2069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.046	0.2044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.00	0.000	0.044	0.2019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.040	0.1997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.036	0.1977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.034	0.1958	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.09	0.000	0.045	0.1983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.031	0.1966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.14	0.000	0.042	0.2020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.00	0.000	0.028	0.2005	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.00	0.000	0.028	0.1989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.027	0.1974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.027	0.1959	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.028	0.1944	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.027	0.1928	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.027	0.1913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.12	0.000	0.036	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.028	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.028	0.1929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.029	0.1913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.029	0.1897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.01	0.000	0.033	0.1886	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.028	0.1870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.031	0.1853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.16	0.000	0.049	0.1913	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.028	0.1897	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.033	0.1879	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.034	0.1860	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.00	0.000	0.042	0.1837	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.00	0.000	0.038	0.1815	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.038	0.1794	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.045	0.1769	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.052	0.1740	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.054	0.1710	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.049	0.1683	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.44	0.000	0.112	0.1861	0.0020	0.0101	8.21E-09	0.0000	0.0000	5.10E-09
101	0.09	0.000	0.078	0.1860	0.0013	0.0067	2.27E-09	0.0000	0.0000	4.81E-09
102	0.28	0.000	0.054	0.1979	0.0039	0.0193	1.36E-08	0.0000	0.0000	6.80E-09
103	0.00	0.000	0.336	0.1793	0.0005	0.0025	6.79E-09	0.0000	0.0000	6.80E-09
104	0.00	0.000	0.074	0.1751	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
105	0.00	0.000	0.084	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.57E-10
106	0.00	0.000	0.061	0.1671	0.0000	0.0001	5.43E-09	0.0000	0.0000	5.10E-09
107	0.00	0.000	0.074	0.1630	0.0000	0.0000	6.78E-09	0.0000	0.0000	6.80E-09
108	0.00	0.000	0.089	0.1580	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.07E-10
109	0.00	0.000	0.072	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.014	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.004	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.76	0.000	0.065	0.1915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.179	0.1816	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.03	0.000	0.213	0.1714	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.195	0.1605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.101	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.45	0.000	0.147	0.1714	0.0001	0.0007	6.80E-09	0.0000	0.0000	5.10E-09
119	0.00	0.000	0.141	0.1636	0.0000	0.0000	2.07E-09	0.0000	0.0000	3.77E-09
120	0.00	0.000	0.102	0.1579	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
121	0.00	0.000	0.061	0.1545	0.0000	0.0000	3.79E-09	0.0000	0.0000	2.84E-09
122	0.03	0.000	0.047	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	9.47E-10
123	0.00	0.000	0.011	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.02	0.000	0.019	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.20	0.000	0.036	0.1622	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.02	0.000	0.105	0.1575	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.12	0.000	0.073	0.1599	0.0000	0.0000	4.51E-09	0.0000	0.0000	3.38E-09
128	0.04	0.000	0.087	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
129	0.00	0.000	0.032	0.1553	0.0000	0.0000	4.52E-09	0.0000	0.0000	3.39E-09
130	0.00	0.000	0.032	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
131	0.00	0.000	0.007	0.1532	0.0000	0.0002	4.54E-09	0.0000	0.0000	3.40E-09
132	0.55	0.000	0.088	0.1789	0.0000	0.0000	2.00E-09	0.0000	0.0000	2.64E-09

133	0.00	0.000	0.068	0.1751	0.0000	0.0001	2.27E-09	0.0000	0.0000	2.20E-09
134	0.00	0.000	0.150	0.1667	0.0000	0.0000	3.78E-09	0.0000	0.0000	4.35E-09
135	0.00	0.000	0.167	0.1575	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
136	0.00	0.000	0.062	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.012	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.35	0.000	0.073	0.1686	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.60	0.000	0.052	0.1991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.15	0.000	0.158	0.1990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	1.62	0.000	0.194	0.2782	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.04	0.000	0.127	0.2734	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.01	0.000	0.129	0.2667	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.348	0.2474	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.33	0.000	0.281	0.2503	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.08	0.000	0.113	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.315	0.2308	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.336	0.2121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.372	0.1915	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.385	0.1701	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.261	0.1556	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.046	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.01	0.000	0.009	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.49	0.000	0.137	0.1727	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.118	0.1661	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.174	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.050	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.010	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.15	0.000	0.046	0.1588	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	1.22	0.000	0.081	0.2223	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.51	0.000	0.120	0.2441	0.0000	0.0000	6.62E-09	0.0000	0.0000	5.10E-09
173	0.00	0.000	0.276	0.2288	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.52E-09
174	0.00	0.000	0.381	0.2076	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.59	0.000	0.364	0.2203	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.73	0.000	0.377	0.2398	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.09	0.000	0.370	0.2244	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.85	0.000	0.143	0.2636	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.389	0.2420	0.0000	0.0001	4.54E-09	0.0000	0.0000	3.40E-09
180	0.00	0.000	0.388	0.2204	0.0000	0.0000	1.46E-09	0.0000	0.0000	2.23E-09
181	0.00	0.000	0.384	0.1991	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.65E-10
182	0.00	0.000	0.406	0.1765	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.312	0.1592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.112	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.16	0.000	0.050	0.1592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.24	0.000	0.127	0.1654	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
189	0.12	0.000	0.155	0.1635	0.0000	0.0000	3.96E-09	0.0000	0.0000	2.97E-09
190	0.00	0.000	0.125	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	9.90E-10
191	0.01	0.000	0.047	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.014	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.005	0.1531	0.0001	0.0003	6.80E-09	0.0000	0.0000	5.10E-09
194	0.04	0.000	0.035	0.1537	0.0000	0.0000	1.83E-09	0.0000	0.0000	3.54E-09
195	0.00	0.000	0.007	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
196	0.40	0.000	0.128	0.1683	0.0000	0.0000	9.07E-09	0.0000	0.0000	5.10E-09
197	0.03	0.000	0.182	0.1597	0.0000	0.0000	2.10E-09	0.0000	0.0000	6.07E-09
198	0.00	0.000	0.075	0.1555	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
199	0.00	0.000	0.030	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.010	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.71	0.000	0.083	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.95	0.000	0.288	0.2248	0.0000	0.0000	1.38E-16	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.154	0.2163	0.0000	0.0000	7.92E-09	0.0000	0.0000	5.10E-09
218	0.06	0.000	0.320	0.2020	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.82E-09
219	1.70	0.000	0.398	0.2740	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	1.37	0.000	0.325	0.3323	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.00	0.000	0.301	0.3156	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.304	0.2937	0.0137	0.0684	9.07E-09	0.0000	0.0000	5.10E-09
223	0.00	0.000	0.342	0.2688	0.0230	0.1152	1.36E-08	0.0000	0.0000	6.80E-09
224	0.02	0.000	0.391	0.2447	0.0130	0.0652	1.36E-08	0.0000	0.0000	6.80E-09
225	0.04	0.000	0.179	0.2339	0.0113	0.0566	1.36E-08	0.0000	0.0000	6.80E-09
226	0.00	0.000	0.186	0.2209	0.0092	0.0458	1.36E-08	0.0000	0.0000	6.80E-09
227	0.00	0.000	0.099	0.2133	0.0081	0.0402	1.36E-08	0.0000	0.0000	6.80E-09
228	0.00	0.000	0.327	0.1923	0.0097	0.0485	1.36E-08	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.297	0.1743	0.0069	0.0344	1.10E-08	0.0000	0.0000	6.80E-09
230	0.38	0.000	0.344	0.1763	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
231	0.02	0.000	0.141	0.1692	0.0024	0.0121	8.36E-09	0.0000	0.0000	6.80E-09
232	0.35	0.000	0.115	0.1823	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
233	0.00	0.000	0.217	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.184	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
235	0.00	0.000	0.110	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
236	0.01	0.000	0.018	0.1533	0.0000	0.0001	6.80E-09	0.0000	0.0000	6.80E-09
237	0.02	0.000	0.022	0.1531	0.0000	0.0000	1.13E-09	0.0000	0.0000	6.80E-09

238	0.14	0.000	0.035	0.1588	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
239	0.00	0.000	0.041	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.07E-09
240	0.00	0.000	0.046	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
241	0.00	0.000	0.011	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.17	0.000	0.049	0.1599	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.04	0.000	0.077	0.1581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.044	0.1557	0.0000	0.0001	4.54E-09	0.0000	0.0000	3.40E-09
245	0.23	0.000	0.077	0.1640	0.0000	0.0000	1.42E-09	0.0000	0.0000	2.20E-09
246	0.06	0.000	0.081	0.1629	0.0000	0.0000	4.53E-09	0.0000	0.0000	4.88E-09
247	0.00	0.000	0.061	0.1595	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
248	0.00	0.000	0.097	0.1541	0.0000	0.0002	6.80E-09	0.0000	0.0000	5.10E-09
249	0.00	0.000	0.015	0.1533	0.0000	0.0000	1.64E-09	0.0000	0.0000	3.34E-09
250	0.00	0.000	0.003	0.1531	0.0000	0.0001	6.80E-09	0.0000	0.0000	5.10E-09
251	0.16	0.000	0.037	0.1598	0.0000	0.0000	5.06E-11	0.0000	0.0000	1.75E-09
252	0.10	0.000	0.077	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
253	0.09	0.000	0.067	0.1621	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.12	0.000	0.070	0.1647	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.07	0.000	0.061	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.18	0.000	0.063	0.1719	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.12	0.000	0.111	0.1727	0.0000	0.0000	8.92E-09	0.0000	0.0000	5.10E-09
258	0.36	0.000	0.078	0.1882	0.0000	0.0000	2.85E-09	0.0000	0.0000	6.67E-09
259	0.77	0.000	0.096	0.2258	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
260	1.67	0.000	0.178	0.3086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.14	0.000	0.171	0.3067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.266	0.2920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.285	0.2761	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.47	0.000	0.147	0.2940	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.51	0.000	0.161	0.3136	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.50	0.000	0.465	0.3156	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.225	0.3021	0.0028	0.0139	1.13E-08	0.0000	0.0000	5.10E-09
268	0.00	0.000	0.162	0.2911	0.0070	0.0350	1.36E-08	0.0000	0.0000	6.80E-09
269	0.00	0.000	0.371	0.2690	0.0056	0.0280	1.36E-08	0.0000	0.0000	6.80E-09
270	0.00	0.000	0.168	0.2596	0.0011	0.0055	9.03E-09	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.228	0.2468	0.0001	0.0005	2.27E-09	0.0000	0.0000	6.80E-09
272	0.00	0.000	0.117	0.2394	0.0029	0.0143	1.36E-08	0.0000	0.0000	6.80E-09

273	0.13	0.000	0.074	0.2410	0.0048	0.0239	1.36E-08	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.128	0.2323	0.0060	0.0299	1.36E-08	0.0000	0.0000	6.80E-09
275	0.00	0.000	0.097	0.2254	0.0055	0.0275	1.36E-08	0.0000	0.0000	6.80E-09
276	0.00	0.000	0.211	0.2125	0.0043	0.0215	1.36E-08	0.0000	0.0000	6.80E-09
277	0.00	0.000	0.212	0.1991	0.0056	0.0280	1.36E-08	0.0000	0.0000	6.80E-09
278	0.00	0.000	0.094	0.1930	0.0036	0.0180	1.36E-08	0.0000	0.0000	6.80E-09
279	0.00	0.000	0.045	0.1899	0.0023	0.0113	1.36E-08	0.0000	0.0000	6.80E-09
280	0.00	0.000	0.035	0.1874	0.0022	0.0108	1.36E-08	0.0000	0.0000	6.80E-09
281	0.11	0.000	0.079	0.1884	0.0019	0.0094	1.36E-08	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.114	0.1815	0.0019	0.0097	1.36E-08	0.0000	0.0000	6.80E-09
283	0.29	0.000	0.143	0.1897	0.0012	0.0058	1.36E-08	0.0000	0.0000	6.80E-09
284	0.28	0.000	0.253	0.1910	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.18	0.000	0.195	0.1902	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.44	0.000	0.096	0.2091	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.23	0.000	0.138	0.2136	0.0021	0.0106	6.80E-09	0.0000	0.0000	6.80E-09
288	0.01	0.000	0.187	0.2035	0.0000	0.0000	5.16E-09	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.094	0.1983	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.118	0.1917	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.067	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.085	0.1833	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.00	0.000	0.245	0.1697	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.079	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.00	0.000	0.105	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.05	0.000	0.135	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
297	0.27	0.000	0.074	0.1657	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
298	0.54	0.000	0.100	0.1903	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
299	0.00	0.000	0.075	0.1861	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
300	0.00	0.000	0.057	0.1830	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.26E-09
301	0.00	0.000	0.081	0.1785	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.128	0.1713	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.113	0.1651	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.037	0.1630	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.059	0.1598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.051	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	1.41	0.000	0.074	0.2314	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	2.19	0.000	0.198	0.3421	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	0.08	0.000	0.127	0.3339	0.0087	0.0432	2.94E-09	0.0000	0.0000	2.94E-09
310	0.07	0.000	0.244	0.3132	0.0467	0.2331	1.65E-08	0.0000	0.0000	5.10E-09
311	1.04	0.000	0.083	0.3518	0.0241	0.1204	1.36E-08	0.0000	0.0000	6.80E-09
312	0.00	0.000	0.045	0.3277	0.8425	0.5257	2.89E-07	0.0000	0.0000	6.80E-09
313	0.00	0.000	0.059	0.3173	0.0272	0.1360	1.36E-08	0.0000	0.0000	6.80E-09
314	0.13	0.000	0.180	0.3083	0.0240	0.1199	1.36E-08	0.0000	0.0000	6.80E-09
315	0.07	0.000	0.217	0.2955	0.0166	0.0831	1.36E-08	0.0000	0.0000	6.80E-09
316	0.02	0.000	0.111	0.2867	0.0139	0.0693	1.36E-08	0.0000	0.0000	6.80E-09
317	0.00	0.000	0.145	0.2754	0.0122	0.0608	1.36E-08	0.0000	0.0000	6.80E-09
318	0.72	0.000	0.157	0.3042	0.0090	0.0451	1.36E-08	0.0000	0.0000	6.80E-09
319	0.11	0.000	0.067	0.3052	0.0054	0.0272	1.36E-08	0.0000	0.0000	6.80E-09
320	0.13	0.000	0.139	0.3033	0.0057	0.0287	1.36E-08	0.0000	0.0000	6.80E-09
321	0.13	0.000	0.135	0.3014	0.0056	0.0280	1.36E-08	0.0000	0.0000	6.80E-09
322	0.03	0.000	0.087	0.2970	0.0046	0.0230	1.36E-08	0.0000	0.0000	6.80E-09
323	0.00	0.000	0.048	0.2935	0.0036	0.0182	1.36E-08	0.0000	0.0000	6.80E-09
324	0.00	0.000	0.053	0.2895	0.0037	0.0184	1.36E-08	0.0000	0.0000	6.80E-09
325	0.00	0.000	0.096	0.2830	0.0037	0.0183	1.36E-08	0.0000	0.0000	6.80E-09
326	0.00	0.000	0.099	0.2766	0.0035	0.0177	1.36E-08	0.0000	0.0000	6.80E-09
327	0.12	0.000	0.088	0.2781	0.0016	0.0082	1.36E-08	0.0000	0.0000	6.80E-09
328	0.00	0.000	0.051	0.2753	0.0003	0.0016	1.35E-08	0.0000	0.0000	6.80E-09
329	0.00	0.000	0.062	0.2717	0.0003	0.0015	4.54E-09	0.0000	0.0000	6.80E-09
330	0.00	0.000	0.081	0.2670	0.0007	0.0037	1.36E-08	0.0000	0.0000	6.80E-09
331	0.00	0.000	0.193	0.2557	0.0022	0.0111	1.36E-08	0.0000	0.0000	6.80E-09
332	0.00	0.000	0.061	0.2518	0.0013	0.0067	1.36E-08	0.0000	0.0000	6.80E-09
333	0.00	0.000	0.097	0.2454	0.0036	0.0178	1.36E-08	0.0000	0.0000	6.80E-09
334	0.00	0.000	0.066	0.2407	0.0040	0.0200	1.36E-08	0.0000	0.0000	6.80E-09
335	0.92	0.000	0.132	0.2832	0.0035	0.0177	1.36E-08	0.0000	0.0000	6.80E-09
336	0.01	0.000	0.176	0.2726	0.0041	0.0207	1.36E-08	0.0000	0.0000	6.80E-09
337	0.01	0.000	0.094	0.2669	0.0037	0.0183	1.36E-08	0.0000	0.0000	6.80E-09
338	0.04	0.000	0.073	0.2644	0.0026	0.0129	1.36E-08	0.0000	0.0000	6.80E-09
339	0.51	0.000	0.120	0.2857	0.0023	0.0115	1.36E-08	0.0000	0.0000	6.80E-09
340	0.00	0.000	0.093	0.2800	0.0019	0.0096	1.36E-08	0.0000	0.0000	6.80E-09
341	0.00	0.000	0.040	0.2774	0.0014	0.0069	1.36E-08	0.0000	0.0000	6.80E-09
342	0.00	0.000	0.073	0.2733	0.0003	0.0017	8.98E-09	0.0000	0.0000	6.80E-09

343		0.00	0.000	0.074	0.2692	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
344		0.00	0.000	0.050	0.2664	0.0003	0.0015	6.80E-09	0.0000	0.0000	6.80E-09
345		0.00	0.000	0.034	0.2645	0.0000	0.0000	4.46E-09	0.0000	0.0000	6.80E-09
346	*	0.00	0.000	0.000	0.2645	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
347		0.00	0.000	0.083	0.2597	0.0004	0.0020	9.02E-09	0.0000	0.0000	6.80E-09
348		0.00	0.000	0.076	0.2556	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
349		0.00	0.000	0.070	0.2517	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
350		0.00	0.000	0.065	0.2480	0.0001	0.0007	2.27E-09	0.0000	0.0000	6.80E-09
351		0.00	0.000	0.086	0.2432	0.0000	0.0000	4.45E-09	0.0000	0.0000	6.80E-09
352		0.00	0.000	0.132	0.2359	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
353		0.00	0.000	0.114	0.2296	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
354		0.00	0.000	0.057	0.2264	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
355		0.00	0.000	0.134	0.2190	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
356		0.20	0.000	0.103	0.2242	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
357		0.00	0.000	0.138	0.2165	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358		0.00	0.000	0.077	0.2123	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359		0.19	0.000	0.068	0.2192	0.0000	0.0002	6.34E-09	0.0000	0.0000	6.80E-09
360		0.00	0.000	0.050	0.2163	0.0002	0.0011	4.54E-09	0.0000	0.0000	6.80E-09
361		0.00	0.000	0.044	0.2139	0.0000	0.0002	6.44E-09	0.0000	0.0000	6.80E-09
362		0.00	0.000	0.039	0.2118	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
363		0.00	0.000	0.036	0.2097	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
364		0.00	0.000	0.034	0.2079	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
365		0.00	0.000	0.032	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 10			
	inches	cubic feet	percent
Precipitation	38.70	3,086,583.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	36.811	2,935,685.1	95.11
Drainage Collected from Layer 3	2.6261	209,431.4	6.79
Percolation/Leakage through Layer 5	0.000001	0.1034	0.00
Average Head on Top of Layer 4	0.0035	---	---

Percolation/Leakage through Layer 8	0.000001	0.0733	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.7340	-58,533.5	-1.90
Soil Water at Start of Year	62.3817	4,975,012.5	161.18
Soil Water at End of Year	61.6478	4,916,479.0	159.29
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

Daily Output for Year 11

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.030	0.2044	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.029	0.2028	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.024	0.2015	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.026	0.2001	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.025	0.1987	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.024	0.1973	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
7			0.00	0.000	0.024	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
8			0.00	0.000	0.023	0.1947	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
9			0.09	0.000	0.028	0.1984	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
10			0.23	0.000	0.027	0.2094	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
11			0.40	0.000	0.026	0.2303	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.171	0.2208	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.020	0.2197	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.020	0.2186	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.020	0.2175	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.00	0.000	0.019	0.2164	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.00	0.000	0.019	0.2154	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.018	0.2144	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.00	0.000	0.018	0.2134	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.00	0.000	0.018	0.2124	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.017	0.2114	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.017	0.2105	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.017	0.2096	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.08	0.000	0.020	0.2129	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.07	0.000	0.019	0.2158	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
26			0.00	0.000	0.016	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.017	0.2141	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.016	0.2133	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29	*	0.17	0.000	0.036	0.2144	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.02	0.000	0.122	0.2151	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.40	0.000	0.018	0.2361	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32		0.00	0.000	0.123	0.2293	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.187	0.2189	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.00	0.000	0.172	0.2093	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.077	0.2051	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36		0.15	0.000	0.061	0.2098	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
37		0.04	0.000	0.052	0.2089	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.044	0.2065	0.0000	0.0002	2.27E-09	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.039	0.2043	0.0000	0.0000	5.21E-09	0.0000	0.0000	6.80E-09
40		0.00	0.000	0.036	0.2023	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
41		0.00	0.000	0.034	0.2004	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
42		0.00	0.000	0.032	0.1986	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
43		0.00	0.000	0.030	0.1970	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
44	*	0.00	0.000	0.029	0.1954	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
45		0.00	0.000	0.027	0.1939	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
46		0.01	0.000	0.028	0.1927	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47	*	0.00	0.000	0.000	0.1927	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.025	0.1913	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
49	*	0.00	0.000	0.000	0.1913	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
50		0.00	0.000	0.024	0.1899	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
51		0.00	0.000	0.022	0.1887	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
52		0.00	0.000	0.023	0.1874	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
53		0.00	0.000	0.022	0.1862	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
54		0.00	0.000	0.022	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
55		0.00	0.000	0.021	0.1838	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
56		0.02	0.000	0.022	0.1837	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
57		0.12	0.000	0.020	0.1894	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.83E-09
58		0.00	0.000	0.020	0.1884	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
59	*	0.12	0.000	0.075	0.1894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60	*	0.01	0.000	0.049	0.1884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.019	0.1873	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.000	0.1873	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.018	0.1863	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.018	0.1853	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	*	0.00	0.000	0.018	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	*	0.00	0.000	0.000	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	*	0.00	0.000	0.000	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.017	0.1834	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69		0.00	0.000	0.017	0.1824	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.017	0.1815	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71		0.01	0.000	0.018	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.00	0.000	0.016	0.1801	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.00	0.000	0.016	0.1792	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.02	0.000	0.018	0.1792	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.02	0.000	0.018	0.1795	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.016	0.1787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.01	0.000	0.017	0.1783	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.08	0.000	0.016	0.1818	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.015	0.1809	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.00	0.000	0.017	0.1801	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.016	0.1792	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82		0.00	0.000	0.017	0.1783	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.016	0.1774	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.016	0.1765	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.015	0.1757	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.12	0.000	0.016	0.1814	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.014	0.1807	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.015	0.1798	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.015	0.1790	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.017	0.1780	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.015	0.1772	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.016	0.1763	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93		0.14	0.000	0.017	0.1832	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94		0.24	0.000	0.017	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.018	0.1947	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.00	0.000	0.019	0.1936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.00	0.000	0.016	0.1927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.017	0.1918	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.019	0.1907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.022	0.1895	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.021	0.1883	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.027	0.1868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.25	0.000	0.025	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.022	0.1981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.00	0.000	0.018	0.1971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.00	0.000	0.020	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.81	0.000	0.026	0.2395	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.242	0.2261	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.182	0.2160	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.099	0.2107	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.00	0.000	0.180	0.2006	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.101	0.1951	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.081	0.1906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.07	0.000	0.063	0.1909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.33	0.000	0.067	0.2058	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.050	0.2030	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.00	0.000	0.047	0.2004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.057	0.1973	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.01	0.000	0.047	0.1950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.01	0.000	0.050	0.1929	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.88	0.000	0.063	0.2382	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.135	0.2307	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.097	0.2253	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.322	0.2074	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.95	0.000	0.230	0.2472	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.273	0.2318	0.0006	0.0031	4.54E-09	0.0000	0.0000	3.40E-09
127	0.89	0.000	0.202	0.2699	0.0001	0.0006	6.70E-09	0.0000	0.0000	6.80E-09
128	0.00	0.000	0.148	0.2617	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.03E-09
129	0.00	0.000	0.411	0.2389	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.402	0.2166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.00	0.000	0.333	0.1981	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.11	0.000	0.139	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.00	0.000	0.121	0.1899	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.57	0.000	0.184	0.2115	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.11	0.000	0.137	0.2101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.07	0.000	0.121	0.2075	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.129	0.2003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.207	0.1889	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.04	0.000	0.174	0.1815	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.204	0.1702	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.176	0.1604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.124	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.10	0.000	0.026	0.1573	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.38	0.000	0.079	0.1738	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.051	0.1710	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.121	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.150	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.042	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.008	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
153	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.15	0.000	0.031	0.1598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.01	0.000	0.062	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.05	0.000	0.062	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.53	0.000	0.074	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.04	0.000	0.188	0.1725	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.126	0.1656	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.107	0.1596	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.086	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.022	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.21	0.000	0.043	0.1626	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.03	0.000	0.107	0.1581	0.0000	0.0000	6.34E-09	0.0000	0.0000	5.10E-09
184	0.28	0.000	0.154	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.24E-09
185	0.00	0.000	0.148	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.048	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.016	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.006	0.1531	0.0001	0.0005	6.80E-09	0.0000	0.0000	5.10E-09
189	0.00	0.000	0.002	0.1530	0.0000	0.0000	2.01E-09	0.0000	0.0000	3.71E-09
190	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
191	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.26	0.000	0.048	0.1648	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.51	0.000	0.142	0.1854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.254	0.1713	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.180	0.1613	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.120	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.020	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.007	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.20	0.000	0.022	0.1628	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.10	0.000	0.105	0.1627	0.0000	0.0000	6.34E-09	0.0000	0.0000	5.10E-09
210	0.84	0.000	0.088	0.2046	0.0000	0.0000	4.25E-09	0.0000	0.0000	5.07E-09
211	0.01	0.000	0.098	0.1997	0.0000	0.0000	8.60E-09	0.0000	0.0000	6.80E-09
212	0.00	0.000	0.129	0.1926	0.0000	0.0000	1.99E-09	0.0000	0.0000	4.21E-09
213	0.14	0.000	0.273	0.1850	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
214	0.38	0.000	0.118	0.1997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.140	0.1919	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.23	0.000	0.148	0.1966	0.0000	0.0001	2.27E-09	0.0000	0.0000	2.27E-09
217	0.00	0.000	0.172	0.1870	0.0000	0.0000	4.05E-09	0.0000	0.0000	3.04E-09
218	0.00	0.000	0.184	0.1768	0.0001	0.0005	4.54E-09	0.0000	0.0000	4.98E-09
219	0.00	0.000	0.127	0.1697	0.0000	0.0000	2.13E-09	0.0000	0.0000	2.16E-09
220	0.00	0.000	0.253	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.32E-10
221	0.00	0.000	0.036	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.008	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.004	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.02	0.000	0.020	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.02	0.000	0.018	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.40	0.000	0.068	0.1712	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.058	0.1680	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.05	0.000	0.106	0.1649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.100	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.094	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.00	0.000	0.015	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.05	0.000	0.025	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.04	0.000	0.026	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.02	0.000	0.019	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.44	0.000	0.047	0.1766	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.06	0.000	0.086	0.1754	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.83	0.000	0.062	0.2184	0.0000	0.0000	1.91E-17	0.0000	0.0000	0.00E+00
253	0.11	0.000	0.184	0.2145	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.166	0.2053	0.0000	0.0000	2.07E-09	0.0000	0.0000	2.07E-09
255	0.00	0.000	0.092	0.2002	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.42E-14
256	0.00	0.000	0.246	0.1865	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.00	0.000	0.267	0.1716	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.229	0.1589	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.086	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.018	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.21	0.000	0.031	0.1632	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
271	0.00	0.000	0.071	0.1592	0.0000	0.0000	1.36E-08	0.0000	0.0000	5.10E-09
272	0.02	0.000	0.083	0.1559	0.0000	0.0000	9.27E-10	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.035	0.1539	0.0000	0.0000	2.15E-09	0.0000	0.0000	4.24E-09
274	0.00	0.000	0.011	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.38E-10
275	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.31	0.000	0.086	0.1653	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
278	0.01	0.000	0.036	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
279	0.00	0.000	0.075	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.085	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.025	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.27	0.000	0.048	0.1652	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.06	0.000	0.045	0.1658	0.0000	0.0000	3.66E-09	0.0000	0.0000	2.75E-09
287	0.05	0.000	0.079	0.1640	0.0000	0.0000	7.72E-09	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.072	0.1600	0.0000	0.0000	2.05E-09	0.0000	0.0000	3.88E-09
289	0.00	0.000	0.062	0.1565	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
290	0.17	0.000	0.067	0.1624	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.01	0.000	0.047	0.1602	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.84	0.000	0.054	0.2037	0.0000	0.0001	4.54E-09	0.0000	0.0000	3.40E-09
293	0.00	0.000	0.068	0.2000	0.0000	0.0000	1.62E-09	0.0000	0.0000	2.35E-09
294	0.20	0.000	0.213	0.1993	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.06E-10
295	0.00	0.000	0.108	0.1933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.055	0.1902	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.085	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.160	0.1766	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.068	0.1728	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.158	0.1640	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.138	0.1563	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.046	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.012	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.01	0.000	0.008	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.13	0.000	0.023	0.1589	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.028	0.1574	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.031	0.1557	0.0000	0.0000	6.63E-09	0.0000	0.0000	5.10E-09

308		0.00	0.000	0.021	0.1545	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.53E-09
309		0.00	0.000	0.011	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.00	0.000	0.009	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.00	0.000	0.006	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312		0.00	0.000	0.001	0.1530	0.0000	0.0000	4.68E-09	0.0000	0.0000	4.68E-09
313		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
314		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.06	0.000	0.020	0.1555	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317		0.00	0.000	0.002	0.1554	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318		0.00	0.000	0.008	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319		0.00	0.000	0.004	0.1547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320		0.00	0.000	0.005	0.1544	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321		0.00	0.000	0.004	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	*	0.00	0.000	0.004	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.004	0.1538	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
324		0.00	0.000	0.004	0.1536	0.0000	0.0000	2.20E-09	0.0000	0.0000	2.20E-09
325		0.00	0.000	0.003	0.1534	0.0000	0.0000	4.51E-09	0.0000	0.0000	3.38E-09
326		0.00	0.000	0.003	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
327		0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.00	0.000	0.000	0.1530	0.0000	0.0000	4.53E-09	0.0000	0.0000	3.40E-09
331		0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
332		0.24	0.000	0.020	0.1650	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.007	0.1646	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.007	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.008	0.1638	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.00	0.000	0.010	0.1632	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.00	0.000	0.010	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.00	0.000	0.010	0.1621	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339		0.00	0.000	0.010	0.1616	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340		0.00	0.000	0.010	0.1610	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.014	0.1605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.010	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	0.00	0.000	0.010	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.009	0.1589	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.009	0.1584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	0.00	0.000	0.009	0.1579	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	0.00	0.000	0.009	0.1574	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	0.00	0.000	0.009	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	0.01	0.000	0.017	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	0.00	0.000	0.009	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	0.00	0.000	0.009	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	0.00	0.000	0.009	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	0.00	0.000	0.009	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	0.00	0.000	0.009	0.1543	0.0000	0.0000	4.52E-09	0.0000	0.0000	3.39E-09
355	0.00	0.000	0.008	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
356	0.00	0.000	0.008	0.1534	0.0000	0.0000	6.80E-09	0.0000	0.0000	5.10E-09
357	0.00	0.000	0.005	0.1531	0.0000	0.0000	2.74E-09	0.0000	0.0000	4.44E-09
358	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
359	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 11			
	inches	cubic feet	percent
Precipitation	16.76	1,336,345.0	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	17.707	1,412,149.0	105.67
Drainage Collected from Layer 3	0.0053	421.4	0.03
Percolation/Leakage through Layer 5	0.000000	0.0119	0.00
Average Head on Top of Layer 4	0.0000	---	---

Percolation/Leakage through Layer 8	0.000001	0.0421	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.9558	-76,225.4	-5.70
Soil Water at Start of Year	61.6478	4,916,479.0	367.90
Soil Water at End of Year	60.6920	4,840,253.6	362.20
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

Daily Output for Year 12

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
	Air	Soil										
1			0.43	0.000	0.017	0.1758	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.36	0.000	0.017	0.1946	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.00	0.000	0.008	0.1942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.00	0.000	0.009	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.00	0.000	0.009	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6	*		0.00	0.000	0.000	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.009	0.1926	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.009	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.009	0.1917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.009	0.1912	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.009	0.1907	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			1.17	0.000	0.021	0.2545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.080	0.2501	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.11	0.000	0.088	0.2515	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.00	0.000	0.070	0.2476	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.077	0.2433	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.041	0.2410	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.00	0.000	0.066	0.2374	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.00	0.000	0.086	0.2326	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.111	0.2265	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
21			0.00	0.000	0.103	0.2207	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
22			0.00	0.000	0.088	0.2159	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
23			0.00	0.000	0.091	0.2108	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.074	0.2067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.057	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.00	0.000	0.048	0.2008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.00	0.000	0.041	0.1985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.27	0.000	0.051	0.2105	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29	*	0.10	0.000	0.030	0.2116	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.20	0.000	0.048	0.2227	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.49	0.000	0.098	0.2443	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.25	0.000	0.118	0.2514	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.45	0.000	0.138	0.2688	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.01	0.000	0.123	0.2623	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.06	0.000	0.119	0.2590	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.25	0.000	0.038	0.2601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37		0.10	0.000	0.116	0.2697	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38		0.00	0.000	0.187	0.2593	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39		0.00	0.000	0.082	0.2547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.108	0.2487	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.00	0.000	0.102	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.085	0.2383	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.100	0.2328	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44		0.00	0.000	0.086	0.2280	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.00	0.000	0.000	0.2280	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46	*	0.00	0.000	0.073	0.2239	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47		0.00	0.000	0.084	0.2193	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48		0.00	0.000	0.100	0.2137	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.077	0.2095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50		0.00	0.000	0.059	0.2062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.050	0.2035	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.11	0.000	0.056	0.2062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.039	0.2040	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.036	0.2020	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.034	0.2001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.032	0.1983	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
57		0.00	0.000	0.030	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
58		0.19	0.000	0.040	0.2052	0.0000	0.0000	4.51E-09	0.0000	0.0000	3.39E-09
59	*	0.00	0.000	0.004	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
60	*	0.00	0.000	0.000	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61	*	0.00	0.000	0.000	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62	*	0.00	0.000	0.027	0.2037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.00	0.000	0.026	0.2023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.025	0.2009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.024	0.1995	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.00	0.000	0.024	0.1982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.00	0.000	0.023	0.1969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.00	0.000	0.022	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.022	0.1945	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.00	0.000	0.022	0.1933	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.00	0.000	0.022	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.021	0.1909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.019	0.1898	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.64	0.000	0.031	0.2238	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.07	0.000	0.119	0.2213	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76	0.00	0.000	0.020	0.2202	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77	0.15	0.000	0.031	0.2270	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.26	0.000	0.179	0.2317	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.247	0.2179	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.123	0.2111	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.080	0.2067	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	0.00	0.000	0.064	0.2034	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83	0.13	0.000	0.061	0.2072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84	0.23	0.000	0.058	0.2170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.044	0.2145	0.0000	0.0002	6.40E-09	0.0000	0.0000	5.10E-09
86	0.00	0.000	0.039	0.2124	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.30E-09
87	0.00	0.000	0.038	0.2103	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.00	0.000	0.035	0.2083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.035	0.2064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.035	0.2044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.034	0.2025	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.89	0.000	0.037	0.2500	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.15	0.000	0.096	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.074	0.2489	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.075	0.2448	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.063	0.2413	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.20	0.000	0.071	0.2483	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.194	0.2375	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.09	0.000	0.072	0.2384	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.08	0.000	0.193	0.2319	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.74	0.000	0.088	0.2679	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	1.92	0.000	0.109	0.3591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.02	0.000	0.080	0.3342	0.5115	0.5035	1.77E-07	0.0000	0.0000	5.10E-09
104	0.00	0.000	0.061	0.3190	0.0488	0.2438	1.69E-08	0.0000	0.0000	6.80E-09
105	0.12	0.000	0.074	0.3140	0.0286	0.1430	1.36E-08	0.0000	0.0000	6.80E-09
106	0.04	0.000	0.079	0.3070	0.0178	0.0891	1.36E-08	0.0000	0.0000	6.80E-09
107	0.24	0.000	0.076	0.3123	0.0135	0.0676	1.36E-08	0.0000	0.0000	6.80E-09
108	0.00	0.000	0.255	0.2951	0.0121	0.0606	1.36E-08	0.0000	0.0000	6.80E-09
109	0.00	0.000	0.194	0.2821	0.0075	0.0374	1.36E-08	0.0000	0.0000	6.80E-09
110	0.28	0.000	0.159	0.2857	0.0107	0.0534	1.36E-08	0.0000	0.0000	6.80E-09
111	0.54	0.000	0.119	0.3079	0.0051	0.0256	1.36E-08	0.0000	0.0000	6.80E-09
112	0.00	0.000	0.285	0.2914	0.0034	0.0171	1.36E-08	0.0000	0.0000	6.80E-09
113	0.45	0.000	0.259	0.3014	0.0022	0.0110	1.36E-08	0.0000	0.0000	6.80E-09
114	0.00	0.000	0.304	0.2828	0.0060	0.0300	1.36E-08	0.0000	0.0000	6.80E-09
115	0.00	0.000	0.232	0.2694	0.0025	0.0125	1.36E-08	0.0000	0.0000	6.80E-09
116	0.17	0.000	0.105	0.2718	0.0035	0.0175	1.36E-08	0.0000	0.0000	6.80E-09
117	0.62	0.000	0.275	0.2896	0.0044	0.0222	1.36E-08	0.0000	0.0000	6.80E-09
118	0.00	0.000	0.352	0.2699	0.0011	0.0055	9.06E-09	0.0000	0.0000	6.80E-09
119	0.00	0.000	0.320	0.2513	0.0038	0.0190	1.36E-08	0.0000	0.0000	6.80E-09
120	0.00	0.000	0.164	0.2417	0.0022	0.0111	1.36E-08	0.0000	0.0000	6.80E-09
121	0.00	0.000	0.193	0.2310	0.0001	0.0003	6.60E-09	0.0000	0.0000	6.80E-09
122	0.00	0.000	0.187	0.2206	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
123	0.00	0.000	0.245	0.2070	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
124	0.00	0.000	0.133	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
125	0.13	0.000	0.121	0.2000	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
126	0.34	0.000	0.113	0.2125	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
127	0.24	0.000	0.133	0.2182	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
128	0.09	0.000	0.252	0.2090	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
129	0.00	0.000	0.256	0.1948	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
130	0.00	0.000	0.120	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
131	0.01	0.000	0.080	0.1841	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
132	0.27	0.000	0.171	0.1893	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

133	0.00	0.000	0.109	0.1833	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
134	0.12	0.000	0.087	0.1852	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
135	0.04	0.000	0.070	0.1837	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
136	0.00	0.000	0.094	0.1785	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
137	0.00	0.000	0.189	0.1680	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
138	0.36	0.000	0.110	0.1819	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
139	0.00	0.000	0.106	0.1760	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
140	0.00	0.000	0.236	0.1629	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
141	0.00	0.000	0.146	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
142	0.00	0.000	0.024	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
143	0.00	0.000	0.005	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
144	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
145	0.21	0.000	0.031	0.1632	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
146	0.11	0.000	0.118	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
147	2.19	0.000	0.222	0.2722	0.0000	0.0000	4.35E-09	0.0000	0.0000	6.80E-09
148	0.10	0.000	0.320	0.2600	0.0000	0.0000	1.80E-09	0.0000	0.0000	6.80E-09
149	0.12	0.000	0.232	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
150	0.00	0.000	0.299	0.2374	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
151	0.00	0.000	0.250	0.2236	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
152	0.00	0.000	0.331	0.2052	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
153	0.00	0.000	0.341	0.1862	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
154	0.00	0.000	0.374	0.1654	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
155	0.00	0.000	0.188	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
156	0.00	0.000	0.036	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
157	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
158	1.08	0.000	0.074	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
159	0.00	0.000	0.134	0.2017	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
160	0.00	0.000	0.246	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
161	0.00	0.000	0.280	0.1725	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
162	0.05	0.000	0.100	0.1695	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
163	0.01	0.000	0.134	0.1628	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
164	0.17	0.000	0.117	0.1656	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
165	0.00	0.000	0.149	0.1574	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.82E-11
166	0.00	0.000	0.055	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.12	0.000	0.062	0.1575	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.027	0.1560	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
169	0.00	0.000	0.041	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.03	0.000	0.038	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.49	0.000	0.136	0.1728	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.201	0.1616	0.0000	0.0000	6.74E-09	0.0000	0.0000	5.10E-09
173	0.01	0.000	0.114	0.1560	0.0000	0.0000	4.34E-19	0.0000	0.0000	1.63E-09
174	0.00	0.000	0.037	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.00	0.000	0.012	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
178	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
179	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.82	0.000	0.125	0.1914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	1.73	0.000	0.307	0.2706	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.31	0.000	0.456	0.2623	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.00	0.000	0.184	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.00	0.000	0.433	0.2281	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.00	0.000	0.306	0.2111	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.00	0.000	0.519	0.1823	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.355	0.1625	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.157	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.014	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.59	0.000	0.131	0.1785	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.148	0.1703	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.178	0.1604	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.117	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.011	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.41	0.000	0.068	0.1721	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.05	0.000	0.128	0.1678	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.01	0.000	0.162	0.1591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	0.31	0.000	0.119	0.1694	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.090	0.1645	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.00	0.000	0.091	0.1594	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.092	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.07	0.000	0.051	0.1553	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.54	0.000	0.070	0.1815	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.00	0.000	0.108	0.1755	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.00	0.000	0.117	0.1690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.192	0.1584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.14	0.000	0.117	0.1596	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.070	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.030	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.08	0.000	0.049	0.1555	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.13	0.000	0.056	0.1598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.11	0.000	0.082	0.1611	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
236	0.05	0.000	0.125	0.1568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
237	0.00	0.000	0.040	0.1546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

238	0.00	0.000	0.018	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.00	0.000	0.006	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.002	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
241	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
242	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
243	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.42E-14
244	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.04	0.000	0.034	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.08	0.000	0.045	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.19	0.000	0.045	0.1631	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.087	0.1582	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.00	0.000	0.071	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.00	0.000	0.015	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
254	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
255	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
256	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
257	0.53	0.000	0.108	0.1763	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
258	0.05	0.000	0.116	0.1728	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.158	0.1640	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.149	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.037	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.00	0.000	0.011	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.00	0.000	0.002	0.1530	0.0000	0.0001	2.27E-09	0.0000	0.0000	2.27E-09
264	0.21	0.000	0.037	0.1627	0.0000	0.0000	3.87E-09	0.0000	0.0000	2.90E-09
265	0.00	0.000	0.114	0.1563	0.0000	0.0000	6.65E-09	0.0000	0.0000	6.80E-09
266	0.00	0.000	0.040	0.1541	0.0000	0.0000	0.00E+00	0.0000	0.0000	8.10E-10
267	0.00	0.000	0.013	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.26	0.000	0.051	0.1645	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.03	0.000	0.059	0.1630	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.089	0.1581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.078	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.009	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.003	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.12	0.000	0.037	0.1579	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.68	0.000	0.039	0.1934	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.02	0.000	0.049	0.1920	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
283	0.07	0.000	0.078	0.1916	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	1.61	0.000	0.098	0.2755	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.00	0.000	0.159	0.2666	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.170	0.2572	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.34	0.000	0.183	0.2661	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.68	0.000	0.244	0.2903	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.04	0.000	0.225	0.2800	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.257	0.2657	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.226	0.2531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.116	0.2467	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.143	0.2387	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.21	0.000	0.074	0.2463	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.169	0.2369	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.00	0.000	0.225	0.2243	0.0004	0.0019	1.13E-08	0.0000	0.0000	5.10E-09
297	0.15	0.000	0.088	0.2277	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.23E-09
298	0.00	0.000	0.230	0.2149	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.226	0.2024	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.192	0.1917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.195	0.1809	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.00	0.000	0.270	0.1659	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	0.00	0.000	0.047	0.1633	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.00	0.000	0.169	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.016	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.05	0.000	0.037	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	2.55	0.000	0.108	0.2895	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	0.04	0.000	0.224	0.2793	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	0.00	0.000	0.337	0.2605	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	0.08	0.000	0.233	0.2522	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	0.03	0.000	0.134	0.2461	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
312	0.03	0.000	0.075	0.2435	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313	0.00	0.000	0.037	0.2416	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314	0.01	0.000	0.129	0.2349	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.092	0.2297	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.124	0.2229	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.066	0.2192	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318	0.45	0.000	0.117	0.2380	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.069	0.2342	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.076	0.2300	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.118	0.2234	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.082	0.2190	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	0.01	0.000	0.078	0.2154	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	0.07	0.000	0.073	0.2150	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	0.47	0.000	0.084	0.2365	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	0.45	0.000	0.065	0.2580	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.111	0.2521	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	0.00	0.000	0.044	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329	0.24	0.000	0.070	0.2588	0.0000	0.0002	1.13E-08	0.0000	0.0000	5.10E-09
330	0.23	0.000	0.082	0.2668	0.0000	0.0000	1.30E-09	0.0000	0.0000	6.80E-09
331	0.04	0.000	0.082	0.2646	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.37E-10
332	0.01	0.000	0.062	0.2617	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333	0.00	0.000	0.034	0.2598	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334	0.59	0.000	0.134	0.2854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335	0.39	0.000	0.108	0.3009	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336	0.00	0.000	0.077	0.2966	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337	0.00	0.000	0.042	0.2943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338	0.00	0.000	0.047	0.2917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
339	0.00	0.000	0.092	0.2866	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
340	0.00	0.000	0.138	0.2789	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341	0.00	0.000	0.196	0.2680	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342	0.00	0.000	0.070	0.2641	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	0.00	0.000	0.124	0.2566	0.0023	0.0112	1.36E-08	0.0000	0.0000	5.10E-09
344	0.00	0.000	0.102	0.2498	0.0043	0.0216	1.36E-08	0.0000	0.0000	6.80E-09
345	0.00	0.000	0.127	0.2414	0.0042	0.0209	1.36E-08	0.0000	0.0000	6.80E-09
346	0.00	0.000	0.076	0.2358	0.0054	0.0269	1.36E-08	0.0000	0.0000	6.80E-09
347	0.00	0.000	0.047	0.2320	0.0047	0.0235	1.36E-08	0.0000	0.0000	6.80E-09
348	0.01	0.000	0.071	0.2273	0.0039	0.0193	1.36E-08	0.0000	0.0000	6.80E-09
349	0.70	0.000	0.083	0.2604	0.0033	0.0165	1.36E-08	0.0000	0.0000	6.80E-09
350	0.16	0.000	0.087	0.2634	0.0039	0.0196	1.36E-08	0.0000	0.0000	6.80E-09
351	0.25	0.000	0.086	0.2718	0.0031	0.0155	1.36E-08	0.0000	0.0000	6.80E-09
352	0.60	0.000	0.088	0.2998	0.0024	0.0122	1.36E-08	0.0000	0.0000	6.80E-09
353	0.00	0.000	0.075	0.2951	0.0020	0.0100	1.36E-08	0.0000	0.0000	6.80E-09
354	0.09	0.000	0.062	0.2961	0.0016	0.0080	1.36E-08	0.0000	0.0000	6.80E-09
355	0.00	0.000	0.053	0.2928	0.0014	0.0069	1.36E-08	0.0000	0.0000	6.80E-09
356	0.00	0.000	0.072	0.2890	0.0001	0.0005	6.68E-09	0.0000	0.0000	6.80E-09
357	0.00	0.000	0.093	0.2839	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
358	0.00	0.000	0.108	0.2779	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
359	0.06	0.000	0.077	0.2767	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
360	0.00	0.000	0.075	0.2727	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
361	0.00	0.000	0.100	0.2670	0.0004	0.0020	6.80E-09	0.0000	0.0000	6.80E-09
362	0.06	0.000	0.087	0.2646	0.0034	0.0170	1.36E-08	0.0000	0.0000	6.80E-09
363	0.00	0.000	0.082	0.2594	0.0025	0.0126	1.36E-08	0.0000	0.0000	6.80E-09
364	*	0.00	0.051	0.2556	0.0033	0.0167	1.36E-08	0.0000	0.0000	6.80E-09
365		0.00	0.070	0.2505	0.0045	0.0225	1.36E-08	0.0000	0.0000	6.80E-09

* = Frozen (air or soil)

Annual Totals for Year 12			
	inches	cubic feet	percent
Precipitation	37.20	2,966,793.1	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	33.787	2,694,561.9	90.82
Drainage Collected from Layer 3	1.6710	133,266.9	4.49
Percolation/Leakage through Layer 5	0.000001	0.0586	0.00
Average Head on Top of Layer 4	0.0020	---	---

Percolation/Leakage through Layer 8	0.000001	0.0509	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	1.7425	138,964.3	4.68
Soil Water at Start of Year	60.6920	4,840,253.6	163.15
Soil Water at End of Year	62.4345	4,979,218.0	167.83
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

Daily Output for Year 13

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.093	0.2439	0.0024	0.0120	1.36E-08	0.0000	0.0000	6.80E-09
2			0.00	0.000	0.119	0.2364	0.0028	0.0139	1.36E-08	0.0000	0.0000	6.80E-09
3			0.00	0.000	0.088	0.2307	0.0032	0.0158	1.36E-08	0.0000	0.0000	6.80E-09
4			0.00	0.000	0.080	0.2252	0.0034	0.0169	1.36E-08	0.0000	0.0000	6.80E-09
5			0.00	0.000	0.123	0.2174	0.0039	0.0193	1.36E-08	0.0000	0.0000	6.80E-09
6			0.00	0.000	0.077	0.2124	0.0027	0.0136	1.36E-08	0.0000	0.0000	6.80E-09
7			0.00	0.000	0.059	0.2086	0.0021	0.0104	1.36E-08	0.0000	0.0000	6.80E-09
8			0.30	0.000	0.056	0.2218	0.0017	0.0085	1.36E-08	0.0000	0.0000	6.80E-09
9			0.00	0.000	0.044	0.2189	0.0014	0.0072	1.36E-08	0.0000	0.0000	6.80E-09
10			0.13	0.000	0.045	0.2235	0.0010	0.0048	1.36E-08	0.0000	0.0000	6.80E-09
11			0.00	0.000	0.036	0.2214	0.0000	0.0000	2.16E-09	0.0000	0.0000	6.80E-09
12			0.00	0.000	0.034	0.2196	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
13			0.00	0.000	0.032	0.2178	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
14			0.00	0.000	0.030	0.2161	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
15			0.00	0.000	0.029	0.2146	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
16			0.00	0.000	0.027	0.2130	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
17			0.00	0.000	0.026	0.2116	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
18			0.00	0.000	0.025	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
19			0.43	0.000	0.029	0.2322	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
20			0.01	0.000	0.116	0.2263	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
21			0.00	0.000	0.135	0.2188	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.106	0.2129	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
23			0.00	0.000	0.077	0.2086	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
24			0.00	0.000	0.059	0.2054	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
25			0.00	0.000	0.050	0.2026	0.0001	0.0005	6.68E-09	0.0000	0.0000	6.80E-09
26	*		0.00	0.000	0.044	0.2002	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
27			0.00	0.000	0.039	0.1980	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

28		0.00	0.000	0.036	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
29	*	0.00	0.000	0.034	0.1941	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
30		0.00	0.000	0.032	0.1923	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
31		0.59	0.000	0.034	0.2231	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
32		0.00	0.000	0.029	0.2215	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
33		0.00	0.000	0.027	0.2200	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
34		0.00	0.000	0.026	0.2186	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
35		0.00	0.000	0.025	0.2172	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
36	*	0.00	0.000	0.024	0.2158	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.61E-09
37		0.00	0.000	0.024	0.2144	0.0002	0.0012	1.13E-08	0.0000	0.0000	6.80E-09
38		0.00	0.000	0.023	0.2132	0.0001	0.0003	6.57E-09	0.0000	0.0000	6.80E-09
39		0.00	0.000	0.022	0.2119	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.30E-09
40		0.05	0.000	0.025	0.2131	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
41		0.00	0.000	0.021	0.2120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.020	0.2108	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43		0.00	0.000	0.020	0.2096	0.0004	0.0019	1.13E-08	0.0000	0.0000	5.10E-09
44		0.00	0.000	0.020	0.2084	0.0003	0.0016	1.36E-08	0.0000	0.0000	6.80E-09
45		0.00	0.000	0.019	0.2074	0.0001	0.0005	8.77E-09	0.0000	0.0000	6.80E-09
46		0.00	0.000	0.019	0.2063	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
47		0.00	0.000	0.018	0.2053	0.0001	0.0003	2.27E-09	0.0000	0.0000	6.80E-09
48		0.00	0.000	0.018	0.2043	0.0000	0.0000	4.34E-09	0.0000	0.0000	6.80E-09
49		0.01	0.000	0.020	0.2039	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.21E-09
50		0.02	0.000	0.019	0.2038	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.017	0.2028	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.017	0.2019	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.016	0.2010	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.00	0.000	0.016	0.2001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.016	0.1992	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.015	0.1983	0.0001	0.0005	1.09E-08	0.0000	0.0000	5.10E-09
57		0.06	0.000	0.017	0.2008	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.78E-09
58		0.30	0.000	0.017	0.2162	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
59		0.00	0.000	0.015	0.2154	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.015	0.2146	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.015	0.2138	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.015	0.2129	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63	0.33	0.000	0.017	0.2305	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64	0.00	0.000	0.093	0.2255	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65	0.00	0.000	0.200	0.2144	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66	0.74	0.000	0.103	0.2496	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67	0.99	0.000	0.276	0.2894	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68	0.31	0.000	0.269	0.2914	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	0.00	0.000	0.228	0.2788	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70	0.46	0.000	0.173	0.2950	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	0.07	0.000	0.090	0.2938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72	0.00	0.000	0.125	0.2868	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73	0.00	0.000	0.135	0.2793	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74	0.00	0.000	0.183	0.2692	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75	0.00	0.000	0.212	0.2573	0.0002	0.0012	8.31E-09	0.0000	0.0000	5.10E-09
76	0.63	0.000	0.147	0.2840	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.21E-09
77	0.10	0.000	0.287	0.2734	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78	0.07	0.000	0.171	0.2677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79	0.00	0.000	0.153	0.2592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80	0.00	0.000	0.300	0.2425	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81	0.00	0.000	0.232	0.2293	0.0011	0.0056	9.07E-09	0.0000	0.0000	5.10E-09
82	0.00	0.000	0.194	0.2185	0.0000	0.0000	2.23E-09	0.0000	0.0000	6.20E-09
83	0.00	0.000	0.082	0.2140	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
84	0.00	0.000	0.064	0.2104	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85	0.00	0.000	0.060	0.2071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86	0.01	0.000	0.055	0.2045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87	0.13	0.000	0.049	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88	0.03	0.000	0.041	0.2086	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89	0.00	0.000	0.045	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90	0.00	0.000	0.039	0.2039	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91	0.00	0.000	0.041	0.2017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92	0.00	0.000	0.036	0.1997	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	0.00	0.000	0.040	0.1974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	0.00	0.000	0.037	0.1954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95	0.00	0.000	0.039	0.1932	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96	0.00	0.000	0.040	0.1910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97	0.00	0.000	0.053	0.1881	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.00	0.000	0.062	0.1846	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.62	0.000	0.060	0.2159	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.02	0.000	0.200	0.2060	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
101	0.00	0.000	0.054	0.2031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
102	0.00	0.000	0.049	0.2004	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.062	0.1969	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.00	0.000	0.059	0.1936	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.02	0.000	0.036	0.1930	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.07	0.000	0.048	0.1942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.10	0.000	0.048	0.1971	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.01	0.000	0.070	0.1938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.00	0.000	0.070	0.1899	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.098	0.1844	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.02	0.000	0.088	0.1806	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.13	0.000	0.042	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.00	0.000	0.073	0.1814	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.00	0.000	0.045	0.1789	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.00	0.000	0.111	0.1727	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
116	0.00	0.000	0.090	0.1677	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
117	0.03	0.000	0.140	0.1615	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.115	0.1554	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.00	0.000	0.044	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.29	0.000	0.036	0.1671	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.93	0.000	0.062	0.2156	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
122	0.00	0.000	0.224	0.2032	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
123	0.00	0.000	0.219	0.1910	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
124	0.00	0.000	0.200	0.1799	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
125	0.00	0.000	0.345	0.1607	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
126	0.00	0.000	0.107	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
127	0.25	0.000	0.069	0.1648	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
128	0.00	0.000	0.109	0.1587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.088	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.013	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.30	0.000	0.097	0.1644	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.095	0.1591	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.02	0.000	0.097	0.1548	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.00	0.000	0.021	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.00	0.000	0.008	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
136	0.92	0.000	0.076	0.2001	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.80	0.000	0.103	0.2387	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.190	0.2281	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.00	0.000	0.464	0.2023	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.00	0.000	0.201	0.1911	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.136	0.1836	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.00	0.000	0.221	0.1713	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.128	0.1642	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	0.00	0.000	0.165	0.1551	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.038	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.03	0.000	0.019	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
151	0.15	0.000	0.033	0.1601	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
152	0.06	0.000	0.095	0.1584	0.0000	0.0000	3.98E-09	0.0000	0.0000	2.99E-09
153	0.08	0.000	0.048	0.1599	0.0000	0.0000	1.86E-09	0.0000	0.0000	2.39E-09
154	0.03	0.000	0.076	0.1573	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.64E-10
155	0.00	0.000	0.029	0.1557	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.035	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.00	0.000	0.009	0.1532	0.0000	0.0002	6.80E-09	0.0000	0.0000	5.10E-09
158	0.00	0.000	0.002	0.1531	0.0000	0.0000	1.68E-09	0.0000	0.0000	3.38E-09
159	0.00	0.000	0.001	0.1530	0.0000	0.0001	6.80E-09	0.0000	0.0000	5.10E-09
160	0.00	0.000	0.000	0.1530	0.0000	0.0000	1.25E-09	0.0000	0.0000	2.95E-09
161	0.58	0.000	0.110	0.1790	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
162	0.06	0.000	0.124	0.1752	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.77	0.000	0.200	0.2070	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.258	0.1926	0.0000	0.0000	1.40E-16	0.0000	0.0000	0.00E+00
165	0.00	0.000	0.205	0.1813	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.00	0.000	0.301	0.1645	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.184	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

168	0.00	0.000	0.016	0.1534	0.0000	0.0000	2.24E-09	0.0000	0.0000	2.24E-09
169	0.00	0.000	0.008	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
170	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
173	0.17	0.000	0.041	0.1600	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
174	0.31	0.000	0.115	0.1711	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
175	0.24	0.000	0.073	0.1803	0.0000	0.0000	2.58E-09	0.0000	0.0000	2.58E-09
176	0.06	0.000	0.113	0.1772	0.0000	0.0000	6.68E-09	0.0000	0.0000	5.10E-09
177	0.00	0.000	0.171	0.1677	0.0000	0.0000	2.27E-09	0.0000	0.0000	3.85E-09
178	0.00	0.000	0.181	0.1576	0.0000	0.0000	2.10E-09	0.0000	0.0000	2.10E-09
179	0.00	0.000	0.063	0.1541	0.0000	0.0000	1.11E-16	0.0000	0.0000	7.11E-15
180	0.00	0.000	0.014	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
182	0.22	0.000	0.049	0.1624	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
183	0.32	0.000	0.072	0.1760	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
184	0.70	0.000	0.069	0.2112	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
185	0.11	0.000	0.106	0.2112	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
186	0.62	0.000	0.153	0.2371	0.0000	0.0000	4.54E-09	0.0000	0.0000	3.40E-09
187	0.03	0.000	0.298	0.2221	0.0000	0.0000	4.44E-09	0.0000	0.0000	5.05E-09
188	0.00	0.000	0.329	0.2040	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.19E-10
189	0.36	0.000	0.349	0.2048	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.23	0.000	0.299	0.2012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.35	0.000	0.151	0.2121	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	0.28	0.000	0.337	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.00	0.000	0.257	0.1949	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.253	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.420	0.1575	0.0000	0.0001	4.54E-09	0.0000	0.0000	3.40E-09
196	0.00	0.000	0.062	0.1540	0.0000	0.0000	1.74E-09	0.0000	0.0000	2.44E-09
197	0.00	0.000	0.019	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.36E-10
198	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.21	0.000	0.035	0.1627	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.082	0.1581	0.0000	0.0000	6.34E-09	0.0000	0.0000	5.10E-09

203	0.00	0.000	0.070	0.1543	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.24E-09
204	0.38	0.000	0.138	0.1674	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.101	0.1618	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.122	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.030	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.15	0.000	0.054	0.1587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.08	0.000	0.065	0.1597	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.19	0.000	0.065	0.1667	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.00	0.000	0.130	0.1596	0.0000	0.0000	1.80E-09	0.0000	0.0000	1.80E-09
212	1.00	0.000	0.114	0.2088	0.0000	0.0000	9.01E-09	0.0000	0.0000	5.10E-09
213	0.00	0.000	0.165	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.90E-09
214	0.08	0.000	0.128	0.1968	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
215	0.15	0.000	0.139	0.1974	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.134	0.1900	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.86	0.000	0.144	0.2298	0.0000	0.0000	1.43E-09	0.0000	0.0000	1.43E-09
218	0.22	0.000	0.141	0.2341	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.57	0.000	0.284	0.2502	0.0001	0.0005	2.27E-09	0.0000	0.0000	2.27E-09
220	0.00	0.000	0.183	0.2401	0.0000	0.0000	4.39E-09	0.0000	0.0000	3.30E-09
221	0.00	0.000	0.185	0.2298	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.10E-09
222	0.00	0.000	0.377	0.2089	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
223	0.46	0.000	0.375	0.2136	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
224	0.00	0.000	0.327	0.1954	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
225	0.03	0.000	0.156	0.1884	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
226	0.46	0.000	0.309	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
227	0.71	0.000	0.138	0.2287	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
228	0.17	0.000	0.240	0.2250	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
229	0.00	0.000	0.169	0.2156	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
230	0.02	0.000	0.254	0.2026	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
231	0.00	0.000	0.243	0.1891	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
232	0.00	0.000	0.251	0.1752	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
233	0.00	0.000	0.196	0.1643	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
234	0.00	0.000	0.134	0.1568	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
235	0.00	0.000	0.055	0.1537	0.0002	0.0009	4.54E-09	0.0000	0.0000	3.40E-09
236	0.00	0.000	0.013	0.1530	0.0000	0.0000	2.20E-09	0.0000	0.0000	2.78E-09
237	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.50E-10

238	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
239	0.21	0.000	0.053	0.1615	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
240	0.00	0.000	0.093	0.1563	0.0000	0.0000	6.34E-09	0.0000	0.0000	5.10E-09
241	0.00	0.000	0.039	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.24E-09
242	0.00	0.000	0.014	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
243	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
244	0.10	0.000	0.052	0.1559	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
245	0.00	0.000	0.017	0.1550	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
246	0.00	0.000	0.029	0.1534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
247	0.00	0.000	0.005	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
248	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
249	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
250	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
251	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
252	0.45	0.000	0.054	0.1749	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
253	0.14	0.000	0.050	0.1797	0.0000	0.0000	2.07E-09	0.0000	0.0000	2.07E-09
254	0.00	0.000	0.119	0.1731	0.0000	0.0000	8.60E-09	0.0000	0.0000	5.10E-09
255	0.00	0.000	0.066	0.1695	0.0000	0.0000	3.72E-09	0.0000	0.0000	6.80E-09
256	0.57	0.000	0.125	0.1944	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.10E-10
257	0.96	0.000	0.156	0.2393	0.0000	0.0000	2.22E-16	0.0000	0.0000	0.00E+00
258	0.00	0.000	0.153	0.2308	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
259	0.00	0.000	0.080	0.2266	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
260	0.00	0.000	0.148	0.2184	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
261	0.00	0.000	0.134	0.2109	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
262	0.14	0.000	0.128	0.2115	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
263	0.34	0.000	0.279	0.2149	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
264	0.00	0.000	0.284	0.1991	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
265	0.00	0.000	0.207	0.1876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
266	0.00	0.000	0.179	0.1777	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
267	0.00	0.000	0.226	0.1651	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
268	0.01	0.000	0.133	0.1580	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
269	0.00	0.000	0.069	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
270	0.00	0.000	0.022	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
271	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
272	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

273	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
274	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
275	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
276	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
277	0.53	0.000	0.051	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
278	0.02	0.000	0.065	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
279	0.55	0.000	0.078	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
280	0.00	0.000	0.202	0.1921	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
281	0.00	0.000	0.234	0.1790	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
282	0.00	0.000	0.285	0.1632	0.0000	0.0000	2.22E-16	0.0000	0.0000	0.00E+00
283	0.00	0.000	0.127	0.1562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
284	0.54	0.000	0.090	0.1812	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
285	0.85	0.000	0.080	0.2240	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
286	0.00	0.000	0.132	0.2166	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
287	0.00	0.000	0.059	0.2133	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
288	0.00	0.000	0.065	0.2097	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
289	0.00	0.000	0.108	0.2037	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
290	0.00	0.000	0.121	0.1970	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
291	0.00	0.000	0.206	0.1855	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
292	0.00	0.000	0.085	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
293	0.00	0.000	0.120	0.1741	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
294	0.00	0.000	0.065	0.1705	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
295	0.00	0.000	0.066	0.1669	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
296	0.01	0.000	0.075	0.1635	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
297	0.00	0.000	0.084	0.1588	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
298	0.00	0.000	0.074	0.1547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
299	0.00	0.000	0.027	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
300	0.00	0.000	0.004	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
301	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
302	0.15	0.000	0.042	0.1587	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
303	1.04	0.000	0.076	0.2122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
304	0.48	0.000	0.137	0.2314	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
305	0.00	0.000	0.051	0.2286	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
306	0.00	0.000	0.214	0.2167	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
307	0.00	0.000	0.084	0.2120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

308	0.13	0.000	0.091	0.2141	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	0.07	0.000	0.149	0.2099	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310	0.18	0.000	0.165	0.2108	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311	1.22	0.000	0.090	0.2735	0.0001	0.0003	2.27E-09	0.0000	0.0000	2.27E-09
312	0.09	0.000	0.093	0.2735	0.0000	0.0000	4.32E-09	0.0000	0.0000	3.24E-09
313	0.00	0.000	0.184	0.2633	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.08E-09
314	0.64	0.000	0.163	0.2896	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	0.00	0.000	0.041	0.2874	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316	0.00	0.000	0.036	0.2854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
317	0.00	0.000	0.084	0.2807	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
318	0.00	0.000	0.054	0.2777	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
319	0.00	0.000	0.055	0.2747	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
320	0.00	0.000	0.055	0.2716	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
321	0.00	0.000	0.102	0.2659	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322	0.00	0.000	0.077	0.2617	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323	0.00	0.000	0.065	0.2580	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324	0.00	0.000	0.033	0.2562	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325	0.00	0.000	0.050	0.2534	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326	0.00	0.000	0.047	0.2508	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327	0.00	0.000	0.119	0.2442	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328	0.04	0.000	0.087	0.2412	0.0005	0.0026	1.13E-08	0.0000	0.0000	5.10E-09
329	0.16	0.000	0.136	0.2424	0.0012	0.0061	1.36E-08	0.0000	0.0000	6.80E-09
330	0.00	0.000	0.159	0.2328	0.0024	0.0121	1.36E-08	0.0000	0.0000	6.80E-09
331	0.00	0.000	0.214	0.2200	0.0036	0.0179	1.36E-08	0.0000	0.0000	6.80E-09
332	0.00	0.000	0.047	0.2169	0.0021	0.0104	1.36E-08	0.0000	0.0000	6.80E-09
333	0.00	0.000	0.026	0.2150	0.0015	0.0075	1.36E-08	0.0000	0.0000	6.80E-09
334	0.00	0.000	0.068	0.2108	0.0015	0.0075	1.36E-08	0.0000	0.0000	6.80E-09
335	0.00	0.000	0.028	0.2091	0.0005	0.0026	1.12E-08	0.0000	0.0000	6.80E-09
336	0.28	0.000	0.065	0.2210	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
337	0.00	0.000	0.063	0.2177	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
338	0.10	0.000	0.051	0.2206	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
339	*	0.60	0.000	0.022	0.2217	0.0000	0.0000	0.00E+00	0.0000	6.80E-09
340		0.00	0.000	0.018	0.2420	0.0000	0.0000	0.00E+00	0.0000	6.80E-09
341		0.00	0.000	0.073	0.2474	0.0000	0.0000	0.00E+00	0.0000	6.80E-09
342		0.01	0.000	0.062	0.2448	0.0001	0.0007	4.54E-09	0.0000	6.80E-09

343	0.17	0.000	0.110	0.2482	0.0000	0.0000	2.18E-09	0.0000	0.0000	6.80E-09
344	0.00	0.000	0.053	0.2453	0.0000	0.0000	0.00E+00	0.0000	0.0000	3.73E-09
345	0.00	0.000	0.095	0.2400	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
346	0.00	0.000	0.085	0.2353	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	0.00	0.000	0.040	0.2331	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	0.01	0.000	0.072	0.2296	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	0.00	0.000	0.040	0.2274	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	0.00	0.000	0.098	0.2220	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	0.00	0.000	0.058	0.2188	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	0.08	0.000	0.075	0.2192	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	0.45	0.000	0.077	0.2397	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	0.01	0.000	0.048	0.2375	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	0.35	0.000	0.088	0.2520	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	0.00	0.000	0.076	0.2478	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	0.00	0.000	0.084	0.2431	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	0.00	0.000	0.119	0.2365	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	0.00	0.000	0.130	0.2293	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	0.00	0.000	0.142	0.2214	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	0.02	0.000	0.077	0.2180	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	0.00	0.000	0.134	0.2106	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	0.00	0.000	0.077	0.2063	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	0.00	0.000	0.059	0.2031	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	0.00	0.000	0.050	0.2003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 13			
	inches	cubic feet	percent
Precipitation	33.50	2,671,907.8	100.00
Runoff	0.000	0.0000	0.00
Evapotranspiration	34.189	2,726,578.3	102.05
Drainage Collected from Layer 3	0.2055	16,391.3	0.61
Percolation/Leakage through Layer 5	0.000000	0.0365	0.00
Average Head on Top of Layer 4	0.0001	---	---

Percolation/Leakage through Layer 8	0.000001	0.0442	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.8910	-71,061.9	-2.66
Soil Water at Start of Year	62.4345	4,979,218.0	186.35
Soil Water at End of Year	61.5434	4,908,156.1	183.69
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

Daily Output for Year 14

Title: CPSE Calaveras FAL Final Cover Plan
Simulated On: 1/25/2026 17:27

Column key: Head #1: drainage from Layer 4 Head #2: drainage from Layer 7
 Drain #1: drainage from Layer 3
 Leak #1: leakage thru Layer 5 Leak #2: leakage thru Layer 8

Day	Freezing Status*		Rain (inches)	Runoff (inches)	ET (inches)	Evap. Zone						
	Air	Soil				Water (in/in)	Head #1 (inches)	Drain #1 (inches)	Leak #1 (inches)	Head #2 (inches)	Drain #2 (inches)	Leak #2 (inches)
1			0.00	0.000	0.044	0.1979	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
2			0.00	0.000	0.039	0.1957	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
3			0.23	0.000	0.044	0.2062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
4			0.01	0.000	0.040	0.2046	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
5			0.59	0.000	0.039	0.2352	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
6			0.05	0.000	0.088	0.2332	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
7			0.00	0.000	0.110	0.2271	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
8			0.00	0.000	0.107	0.2212	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
9			0.00	0.000	0.119	0.2146	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
10			0.00	0.000	0.106	0.2088	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
11			0.00	0.000	0.077	0.2045	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
12			0.00	0.000	0.059	0.2012	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
13			0.00	0.000	0.050	0.1985	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
14			0.38	0.000	0.049	0.2169	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
15			0.35	0.000	0.045	0.2341	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
16			0.00	0.000	0.125	0.2274	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
17			0.00	0.000	0.074	0.2233	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
18			0.16	0.000	0.070	0.2282	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
19			0.01	0.000	0.103	0.2233	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
20			0.00	0.000	0.108	0.2174	0.0004	0.0019	1.13E-08	0.0000	0.0000	5.10E-09
21			0.00	0.000	0.111	0.2112	0.0001	0.0006	6.69E-09	0.0000	0.0000	6.80E-09
22			0.00	0.000	0.068	0.2074	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.12E-09
23			0.00	0.000	0.059	0.2041	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
24			0.00	0.000	0.050	0.2014	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
25			0.00	0.000	0.044	0.1989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
26			0.01	0.000	0.044	0.1972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
27			0.20	0.000	0.041	0.2061	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

28		0.03	0.000	0.038	0.2057	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
29		0.39	0.000	0.036	0.2254	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
30		0.05	0.000	0.118	0.2217	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
31		0.08	0.000	0.122	0.2193	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
32		0.10	0.000	0.131	0.2174	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
33		0.03	0.000	0.081	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
34		0.08	0.000	0.063	0.2155	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
35		0.04	0.000	0.053	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
36	*	0.00	0.000	0.000	0.2147	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
37	*	0.00	0.000	0.044	0.2122	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
38	*	0.00	0.000	0.039	0.2101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
39	*	0.00	0.000	0.000	0.2101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
40		0.00	0.000	0.036	0.2080	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
41		0.08	0.000	0.037	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
42		0.00	0.000	0.032	0.2084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
43	*	0.00	0.000	0.000	0.2084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
44	*	0.00	0.000	0.000	0.2084	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
45	*	0.09	0.000	0.035	0.2095	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
46		1.19	0.000	0.000	0.2777	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
47	*	0.00	0.000	0.052	0.2748	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
48	*	0.00	0.000	0.000	0.2748	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
49		0.00	0.000	0.098	0.2693	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
50	*	0.00	0.000	0.077	0.2651	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
51		0.00	0.000	0.120	0.2584	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
52		0.00	0.000	0.069	0.2546	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
53		0.00	0.000	0.109	0.2485	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
54		0.03	0.000	0.210	0.2385	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
55		0.00	0.000	0.094	0.2332	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
56		0.00	0.000	0.124	0.2263	0.0001	0.0006	4.54E-09	0.0000	0.0000	3.40E-09
57		0.00	0.000	0.085	0.2216	0.0000	0.0000	2.15E-09	0.0000	0.0000	2.75E-09
58		0.00	0.000	0.098	0.2162	0.0000	0.0000	0.00E+00	0.0000	0.0000	5.39E-10
59		0.00	0.000	0.125	0.2092	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
60		0.00	0.000	0.077	0.2050	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
61		0.00	0.000	0.059	0.2017	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
62		0.00	0.000	0.050	0.1989	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

63		0.00	0.000	0.044	0.1965	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
64		0.00	0.000	0.040	0.1942	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
65		0.93	0.000	0.040	0.2436	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
66		0.00	0.000	0.201	0.2327	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
67		0.04	0.000	0.076	0.2305	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
68		0.00	0.000	0.136	0.2229	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
69	*	0.00	0.000	0.097	0.2175	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
70		0.00	0.000	0.122	0.2107	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
71	*	0.03	0.000	0.105	0.2064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
72		0.08	0.000	0.063	0.2072	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
73		0.04	0.000	0.055	0.2062	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
74		0.17	0.000	0.048	0.2130	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
75		0.37	0.000	0.045	0.2309	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
76		0.00	0.000	0.230	0.2181	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
77		0.00	0.000	0.041	0.2158	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
78		0.00	0.000	0.037	0.2138	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
79		0.00	0.000	0.037	0.2120	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
80		0.27	0.000	0.036	0.2251	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
81		0.00	0.000	0.146	0.2170	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
82	*	0.00	0.000	0.031	0.2152	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
83		0.00	0.000	0.032	0.2135	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
84		0.00	0.000	0.031	0.2118	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
85		0.00	0.000	0.031	0.2101	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
86		0.00	0.000	0.031	0.2083	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
87		0.00	0.000	0.033	0.2064	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
88		0.00	0.000	0.036	0.2044	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
89		0.00	0.000	0.031	0.2027	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
90		0.00	0.000	0.029	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
91		0.00	0.000	0.027	0.1996	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
92		0.00	0.000	0.025	0.1982	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
93	*	0.00	0.000	0.028	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
94	*	0.00	0.000	0.000	0.1967	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
95		0.00	0.000	0.026	0.1952	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
96		0.01	0.000	0.035	0.1937	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
97		0.02	0.000	0.038	0.1927	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

98	0.05	0.000	0.044	0.1931	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
99	0.00	0.000	0.046	0.1906	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
100	0.00	0.000	0.047	0.1879	0.0000	0.0001	5.54E-09	0.0000	0.0000	5.10E-09
101	0.00	0.000	0.071	0.1840	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.37E-10
102	0.00	0.000	0.065	0.1804	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
103	0.00	0.000	0.053	0.1775	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
104	0.73	0.000	0.050	0.2153	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
105	0.12	0.000	0.142	0.2142	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
106	0.40	0.000	0.108	0.2303	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
107	0.00	0.000	0.117	0.2240	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
108	0.00	0.000	0.306	0.2069	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
109	0.01	0.000	0.134	0.1999	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
110	0.00	0.000	0.198	0.1889	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
111	0.86	0.000	0.215	0.2248	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
112	0.00	0.000	0.205	0.2134	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
113	0.05	0.000	0.207	0.2049	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
114	0.49	0.000	0.096	0.2269	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
115	0.07	0.000	0.129	0.2237	0.0001	0.0005	6.66E-09	0.0000	0.0000	5.10E-09
116	0.07	0.000	0.132	0.2203	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.56E-09
117	0.00	0.000	0.314	0.2029	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
118	0.00	0.000	0.394	0.1810	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
119	0.33	0.000	0.150	0.1909	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
120	0.00	0.000	0.421	0.1675	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
121	0.00	0.000	0.217	0.1555	0.0001	0.0004	6.62E-09	0.0000	0.0000	5.10E-09
122	0.00	0.000	0.039	0.1532	0.0001	0.0003	2.27E-09	0.0000	0.0000	3.78E-09
123	0.00	0.000	0.004	0.1530	0.0000	0.0000	4.26E-09	0.0000	0.0000	3.20E-09
124	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.07E-09
125	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
126	0.00	0.000	0.000	0.1530	0.0000	0.0000	2.25E-09	0.0000	0.0000	2.25E-09
127	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.42E-14
128	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
129	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
130	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
131	0.02	0.000	0.018	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
132	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

133	0.13	0.000	0.014	0.1592	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
134	0.01	0.000	0.044	0.1571	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
135	0.28	0.000	0.089	0.1679	0.0000	0.0000	2.87E-09	0.0000	0.0000	2.87E-09
136	0.00	0.000	0.071	0.1639	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
137	0.00	0.000	0.131	0.1566	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
138	0.00	0.000	0.043	0.1542	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
139	0.39	0.000	0.093	0.1707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
140	0.04	0.000	0.052	0.1698	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
141	0.00	0.000	0.109	0.1638	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
142	0.16	0.000	0.102	0.1672	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
143	0.00	0.000	0.094	0.1620	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
144	1.34	0.000	0.205	0.2252	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
145	0.00	0.000	0.271	0.2102	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
146	0.00	0.000	0.155	0.2016	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
147	0.51	0.000	0.316	0.2123	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
148	0.00	0.000	0.287	0.1964	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
149	0.00	0.000	0.410	0.1736	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
150	0.00	0.000	0.294	0.1572	0.0002	0.0010	8.95E-09	0.0000	0.0000	5.10E-09
151	0.00	0.000	0.065	0.1536	0.0000	0.0000	4.34E-19	0.0000	0.0000	3.85E-09
152	0.00	0.000	0.010	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
153	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
154	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
155	0.73	0.000	0.061	0.1901	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
156	0.00	0.000	0.184	0.1799	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
157	0.11	0.000	0.095	0.1807	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
158	0.47	0.000	0.227	0.1943	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
159	0.17	0.000	0.135	0.1962	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
160	0.00	0.000	0.167	0.1869	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
161	0.00	0.000	0.153	0.1784	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
162	0.00	0.000	0.209	0.1668	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
163	0.00	0.000	0.219	0.1547	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
164	0.00	0.000	0.020	0.1536	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
165	0.18	0.000	0.047	0.1609	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
166	0.23	0.000	0.089	0.1690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
167	0.00	0.000	0.111	0.1628	0.0000	0.0000	4.30E-09	0.0000	0.0000	3.23E-09

168	0.09	0.000	0.178	0.1578	0.0000	0.0000	6.14E-09	0.0000	0.0000	6.80E-09
169	1.59	0.000	0.257	0.2319	0.0000	0.0000	0.00E+00	0.0000	0.0000	4.15E-10
170	0.13	0.000	0.293	0.2230	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
171	0.66	0.000	0.127	0.2526	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
172	0.89	0.000	0.363	0.2820	0.0000	0.0000	2.27E-09	0.0000	0.0000	2.27E-09
173	0.00	0.000	0.164	0.2729	0.0000	0.0000	2.72E-09	0.0000	0.0000	2.72E-09
174	0.00	0.000	0.137	0.2652	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
175	0.00	0.000	0.129	0.2581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
176	0.00	0.000	0.126	0.2511	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
177	0.00	0.000	0.277	0.2356	0.0001	0.0006	6.71E-09	0.0000	0.0000	5.10E-09
178	0.00	0.000	0.274	0.2204	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.60E-09
179	0.00	0.000	0.385	0.1990	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
180	0.00	0.000	0.367	0.1787	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
181	0.15	0.000	0.302	0.1689	0.0042	0.0210	9.07E-09	0.0000	0.0000	5.10E-09
182	0.14	0.000	0.169	0.1673	0.0000	0.0000	1.14E-09	0.0000	0.0000	4.82E-09
183	0.00	0.000	0.190	0.1567	0.0000	0.0000	0.00E+00	0.0000	0.0000	2.85E-10
184	0.05	0.000	0.073	0.1556	0.0000	0.0000	4.42E-09	0.0000	0.0000	3.32E-09
185	0.43	0.000	0.137	0.1717	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.11E-09
186	1.02	0.000	0.173	0.2187	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
187	0.00	0.000	0.277	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
188	0.00	0.000	0.283	0.1876	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
189	0.00	0.000	0.387	0.1660	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
190	0.00	0.000	0.208	0.1545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
191	0.00	0.000	0.018	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
192	2.06	0.000	0.250	0.2539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
193	0.99	0.000	0.307	0.2917	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
194	0.00	0.000	0.359	0.2717	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
195	0.00	0.000	0.319	0.2540	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
196	0.00	0.000	0.317	0.2364	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
197	0.00	0.000	0.280	0.2208	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
198	0.00	0.000	0.248	0.2071	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
199	0.00	0.000	0.107	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
200	0.00	0.000	0.365	0.1808	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
201	0.10	0.000	0.131	0.1793	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
202	0.00	0.000	0.195	0.1685	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

203	0.00	0.000	0.124	0.1616	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
204	0.00	0.000	0.127	0.1545	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
205	0.00	0.000	0.026	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
206	0.00	0.000	0.001	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
207	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
208	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
209	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
210	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
211	0.23	0.000	0.031	0.1639	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
212	0.37	0.000	0.171	0.1750	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
213	0.01	0.000	0.160	0.1665	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
214	0.02	0.000	0.118	0.1611	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
215	0.00	0.000	0.096	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
216	0.00	0.000	0.034	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
217	0.00	0.000	0.011	0.1533	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
218	0.10	0.000	0.036	0.1566	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
219	0.00	0.000	0.026	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
220	0.00	0.000	0.026	0.1537	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
221	3.81	0.005	0.265	0.3504	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
222	0.00	0.000	0.208	0.3171	0.8539	0.3329	2.90E-07	0.0000	0.0000	5.10E-09
223	0.00	0.000	0.289	0.2939	0.0347	0.1734	1.52E-08	0.0000	0.0000	6.80E-09
224	0.00	0.000	0.181	0.2795	0.0154	0.0771	1.36E-08	0.0000	0.0000	6.80E-09
225	0.26	0.000	0.316	0.2728	0.0142	0.0709	1.36E-08	0.0000	0.0000	6.80E-09
226	0.52	0.000	0.118	0.2920	0.0107	0.0533	1.36E-08	0.0000	0.0000	6.80E-09
227	1.16	0.000	0.145	0.3456	0.0100	0.0499	1.36E-08	0.0000	0.0000	6.80E-09
228	0.05	0.000	0.142	0.3287	0.0363	0.1812	1.77E-08	0.0000	0.0000	6.80E-09
229	0.00	0.000	0.141	0.3124	0.0332	0.1659	1.37E-08	0.0000	0.0000	6.80E-09
230	0.00	0.000	0.262	0.2920	0.0227	0.1134	1.36E-08	0.0000	0.0000	6.80E-09
231	0.00	0.000	0.330	0.2692	0.0172	0.0858	1.36E-08	0.0000	0.0000	6.80E-09
232	0.00	0.000	0.354	0.2464	0.0112	0.0559	1.36E-08	0.0000	0.0000	6.80E-09
233	0.00	0.000	0.308	0.2266	0.0095	0.0476	1.36E-08	0.0000	0.0000	6.80E-09
234	0.00	0.000	0.190	0.2134	0.0100	0.0501	1.36E-08	0.0000	0.0000	6.80E-09
235	0.00	0.000	0.147	0.2033	0.0072	0.0358	1.36E-08	0.0000	0.0000	6.80E-09
236	0.00	0.000	0.069	0.1979	0.0059	0.0293	1.36E-08	0.0000	0.0000	6.80E-09
237	0.00	0.000	0.206	0.1835	0.0101	0.0507	1.36E-08	0.0000	0.0000	6.80E-09

238	0.00	0.000	0.132	0.1759	0.0023	0.0115	1.35E-08	0.0000	0.0000	6.80E-09
239	0.00	0.000	0.142	0.1681	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
240	0.00	0.000	0.136	0.1605	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
241	0.00	0.000	0.132	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
242	0.00	0.000	0.003	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
243	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
244	0.11	0.000	0.049	0.1564	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
245	0.00	0.000	0.021	0.1552	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
246	0.00	0.000	0.030	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
247	0.00	0.000	0.006	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
248	0.51	0.000	0.071	0.1773	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
249	0.20	0.000	0.078	0.1841	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
250	1.67	0.000	0.117	0.2703	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
251	0.11	0.000	0.219	0.2645	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
252	0.14	0.000	0.186	0.2619	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
253	0.02	0.000	0.117	0.2564	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
254	0.00	0.000	0.106	0.2505	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
255	0.41	0.000	0.177	0.2634	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
256	0.00	0.000	0.221	0.2512	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
257	0.00	0.000	0.168	0.2418	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
258	0.00	0.000	0.113	0.2355	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
259	0.00	0.000	0.296	0.2191	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
260	0.12	0.000	0.281	0.2102	0.0000	0.0001	5.60E-09	0.0000	0.0000	6.80E-09
261	0.14	0.000	0.211	0.2066	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
262	0.00	0.000	0.243	0.1931	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
263	0.00	0.000	0.152	0.1847	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
264	0.25	0.000	0.111	0.1926	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
265	0.15	0.000	0.120	0.1944	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
266	0.00	0.000	0.215	0.1824	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
267	0.00	0.000	0.308	0.1653	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
268	0.04	0.000	0.246	0.1539	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
269	0.00	0.000	0.011	0.1533	0.0000	0.0000	2.23E-09	0.0000	0.0000	6.80E-09
270	0.00	0.000	0.004	0.1531	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
271	0.00	0.000	0.002	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
272	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09

273	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
274	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
275	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
276	1.19	0.000	0.208	0.2074	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
277	0.12	0.000	0.237	0.2011	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
278	0.00	0.000	0.228	0.1884	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
279	0.00	0.000	0.151	0.1800	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
280	0.00	0.000	0.195	0.1692	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
281	0.00	0.000	0.194	0.1585	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
282	0.00	0.000	0.080	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
283	0.00	0.000	0.014	0.1532	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
284	0.00	0.000	0.004	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
285	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
286	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
287	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
288	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
289	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
290	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
291	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
292	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
293	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
294	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
295	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
296	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
297	0.00	0.000	0.000	0.1530	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.80E-09
298	0.05	0.000	0.034	0.1540	0.0000	0.0000	0.00E+00	0.0000	0.0000	6.31E-09
299	0.00	0.000	0.006	0.1538	0.0000	0.0000	0.00E+00	0.0000	0.0000	7.11E-15
300	*	0.23	0.000	0.030	0.1549	0.0000	0.0000	0.00E+00	0.0000	0.00E+00
301		0.00	0.000	0.064	0.1611	0.0000	0.0000	6.07E-09	0.0000	5.10E-09
302		0.00	0.000	0.029	0.1594	0.0000	0.0000	4.24E-09	0.0000	4.79E-09
303		0.01	0.000	0.045	0.1574	0.0000	0.0000	0.00E+00	0.0000	4.22E-10
304		0.16	0.000	0.052	0.1633	0.0000	0.0000	4.34E-09	0.0000	3.26E-09
305		0.00	0.000	0.033	0.1615	0.0000	0.0000	0.00E+00	0.0000	1.09E-09
306		0.00	0.000	0.028	0.1599	0.0000	0.0000	0.00E+00	0.0000	0.00E+00
307		0.00	0.000	0.040	0.1577	0.0000	0.0000	0.00E+00	0.0000	0.00E+00

308		0.00	0.000	0.034	0.1558	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
309	*	0.13	0.000	0.065	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
310		0.10	0.000	0.062	0.1616	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
311		0.02	0.000	0.050	0.1602	0.0000	0.0000	2.04E-09	0.0000	0.0000	2.04E-09
312		0.01	0.000	0.033	0.1588	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
313		0.01	0.000	0.020	0.1581	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
314		0.00	0.000	0.022	0.1569	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
315	*	0.00	0.000	0.011	0.1563	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
316		0.00	0.000	0.026	0.1549	0.0000	0.0000	2.19E-09	0.0000	0.0000	2.19E-09
317		0.00	0.000	0.017	0.1539	0.0000	0.0000	6.75E-09	0.0000	0.0000	5.10E-09
318		0.00	0.000	0.009	0.1535	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.65E-09
319		0.44	0.000	0.051	0.1748	0.0000	0.0000	4.52E-09	0.0000	0.0000	3.39E-09
320		0.00	0.000	0.016	0.1740	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.13E-09
321		0.00	0.000	0.027	0.1724	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
322		0.00	0.000	0.031	0.1707	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
323		0.00	0.000	0.031	0.1690	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
324		0.00	0.000	0.038	0.1668	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
325		0.00	0.000	0.036	0.1649	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
326		0.00	0.000	0.022	0.1636	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
327		0.00	0.000	0.031	0.1619	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
328		0.00	0.000	0.029	0.1603	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
329		0.00	0.000	0.018	0.1593	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
330		0.02	0.000	0.028	0.1586	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
331		0.63	0.000	0.053	0.1905	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
332		0.00	0.000	0.063	0.1870	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
333		0.00	0.000	0.028	0.1854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
334		0.00	0.000	0.052	0.1825	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
335		0.00	0.000	0.025	0.1812	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
336		0.04	0.000	0.055	0.1804	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
337		0.01	0.000	0.040	0.1785	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
338		0.61	0.000	0.060	0.2090	0.0000	0.0000	6.78E-09	0.0000	0.0000	5.10E-09
339		0.10	0.000	0.079	0.2100	0.0000	0.0000	0.00E+00	0.0000	0.0000	1.68E-09
340		0.10	0.000	0.046	0.2131	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
341		0.00	0.000	0.069	0.2093	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
342		0.00	0.000	0.060	0.2059	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

343	0.00	0.000	0.092	0.2008	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
344	0.00	0.000	0.056	0.1977	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
345	0.00	0.000	0.031	0.1960	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
346	0.88	0.000	0.041	0.2428	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
347	0.05	0.000	0.045	0.2429	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
348	0.02	0.000	0.055	0.2410	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
349	0.00	0.000	0.055	0.2380	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
350	0.00	0.000	0.068	0.2342	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
351	0.00	0.000	0.062	0.2307	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
352	0.00	0.000	0.070	0.2268	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
353	0.00	0.000	0.068	0.2230	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
354	0.00	0.000	0.103	0.2173	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
355	0.00	0.000	0.097	0.2119	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
356	0.00	0.000	0.155	0.2033	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
357	0.00	0.000	0.054	0.2003	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
358	0.00	0.000	0.056	0.1972	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
359	0.00	0.000	0.061	0.1938	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
360	0.00	0.000	0.105	0.1880	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
361	0.00	0.000	0.046	0.1854	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
362	0.00	0.000	0.058	0.1822	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
363	0.00	0.000	0.047	0.1796	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
364	0.00	0.000	0.031	0.1779	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00
365	0.00	0.000	0.042	0.1755	0.0000	0.0000	0.00E+00	0.0000	0.0000	0.00E+00

* = Frozen (air or soil)

Annual Totals for Year 14			
	inches	cubic feet	percent
Precipitation	37.71	3,007,692.7	100.00
Runoff	0.005	418.3	0.01
Evapotranspiration	36.542	2,914,290.4	96.89
Drainage Collected from Layer 3	1.6117	128,534.8	4.27
Percolation/Leakage through Layer 5	0.000001	0.0528	0.00
Average Head on Top of Layer 4	0.0030	---	---

Percolation/Leakage through Layer 8	0.000001	0.0528	0.00
Average Head on Top of Layer 7	0.0000	---	---
Change in Water Storage	-0.4458	-35,550.8	-1.18
Soil Water at Start of Year	61.5434	4,908,156.1	163.19
Soil Water at End of Year	61.0977	4,872,605.2	162.00
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

Average Annual Totals Summary

Title: CPSE Calaveras FAL Final Cover Plan
Simulated on: 1/25/2026 17:27

	Average Annual Totals for Years 1 - 14*			
	(inches)	[std dev]	(cubic feet)	(percent)
Precipitation	31.20	[6.45]	2,487,953.7	100.00
Runoff	0.005	[0.018]	422.2	0.02
Evapotranspiration	29.846	[5.999]	2,380,268.1	95.67
Subprofile1				
Lateral drainage collected from Layer 3	1.5079	[1.3292]	120,255.1	4.83
Percolation/leakage through Layer 5	0.000001	[0.000002]	0.0932	0.00
Average Head on Top of Layer 4	0.0056	[0.0134]	---	---
Subprofile2				
Percolation/leakage through Layer 8	0.000002	[0.000001]	0.1302	0.00
Average Head on Top of Layer 7	0.0000	[0]	---	---
Water storage				
Change in water storage	-0.1629	[1.1616]	-12,991.8	-0.52

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

Peak Values Summary

Title: CPSE Calaveras FAL Final Cover Plan
Simulated on: 1/25/2026 17:28

	Peak Values for Years 1 - 14*	
	(inches)	(cubic feet)
Precipitation	3.81	303,775.1
Runoff	0.069	5,491.9
Subprofile1		
Drainage collected from Layer 3	1.0012	79,846.0
Percolation/leakage through Layer 5	0.000004	0.3498
Average head on Layer 4	12.8936	---
Maximum head on Layer 4	19.5217	---
Location of maximum head in Layer 3	82.64 (feet from drain)	
Subprofile2		
Percolation/leakage through Layer 8	0.000000	0.0005
Average head on Layer 7	0.0000	
Other Parameters		
Snow water	1.2265	97,814.6
Maximum vegetation soil water	0.4243 (vol/vol)	
Minimum vegetation soil water	0.1530 (vol/vol)	

Final Water Storage in Landfill Profile at End of Simulation Period

Title: CPSE Calaveras FAL Final Cover Plan
Simulated on: 1/25/2026 17:28
Simulation period: 14 years

Layer	Final Water Storage	
	(inches)	(vol/vol)
1	0.5100	0.0850
2	2.6497	0.2208
3	0.0020	0.0100
4	0.0000	0.0000
5	5.5680	0.4640
6	47.1240	0.1870
7	5.2440	0.4370
8	0.0000	0.0000
Snow water	0.0000	---