

Case 2

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**      HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE      **
**      HELP MODEL VERSION 3.07 (1 November 1997)          **
**      DEVELOPED BY ENVIRONMENTAL LABORATORY                **
**      USAE WATERWAYS EXPERIMENT STATION                   **
**      FOR USEPA RISK REDUCTION ENGINEERING LABORATORY     **
**      **                                                    **
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PRECIPITATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP\weather1.dat
TEMPERATURE DATA FILE: C:\WHI\UNSAT22\data\P922.VHP\weather2.dat
SOLAR RADIATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP\weather3.dat
EVAPOTRANSPIRATION DATA: C:\WHI\UNSAT22\data\P922.VHP\weather4.dat
SOIL AND DESIGN DATA FILE: C:\WHI\UNSAT22\data\P922.VHP\386042.inp
OUTPUT DATA FILE: C:\WHI\UNSAT22\data\P922.VHPIO_386042.prt

TIME: 10:26 DATE: 8/21/2014

TITLE: Case 2

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 18

THICKNESS = 548.64 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2866 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 2

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 201

THICKNESS = 60.96 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2920 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 3

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 16

THICKNESS = 2.44 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

Case 2

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 230

THICKNESS = 58.52 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4191 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 5

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 222

THICKNESS = 0.67 CM
POROSITY = 0.8500 VOL/VOL
FIELD CAPACITY = 0.0100 VOL/VOL
WILTING POINT = 0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0246 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 10.3900000000 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 6

TYPE 4 - FLEXIBLE MEMBRANE LINER

MATERIAL TEXTURE NUMBER 235

THICKNESS = 0.15 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.200000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 7

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 15

THICKNESS = 60.96 CM
POROSITY = 0.4750 VOL/VOL
FIELD CAPACITY = 0.3780 VOL/VOL
WILTING POINT = 0.2650 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4750 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.170000000000E-04 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
SOIL DATA BASE USING SOIL TEXTURE #18 WITH BARE
GROUND CONDITIONS, A SURFACE SLOPE OF 0.0% AND
A SLOPE LENGTH OF 0.0 METERS.

SCS RUNOFF CURVE NUMBER = 0.00
FRACTION OF AREA ALLOWING RUNOFF = 0.0 PERCENT
AREA PROJECTED ON HORIZONTAL PLANE = 0.4047 HECTARES
EVAPORATIVE ZONE DEPTH = 25.4 CM
INITIAL WATER IN EVAPORATIVE ZONE = 4.465 CM
UPPER LIMIT OF EVAPORATIVE STORAGE = 17.043 CM
LOWER LIMIT OF EVAPORATIVE STORAGE = 1.956 CM
INITIAL SNOW WATER = 0.000 CM
INITIAL WATER IN LAYER MATERIALS = 229.591 CM
TOTAL INITIAL WATER = 229.591 CM
TOTAL SUBSURFACE INFLOW = 0.00 MM/YR

Case 2

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
Austin TX

STATION LATITUDE = 30.31 DEGREES
MAXIMUM LEAF AREA INDEX = 0.00
START OF GROWING SEASON (JULIAN DATE) = 44
END OF GROWING SEASON (JULIAN DATE) = 346
EVAPORATIVE ZONE DEPTH = 10.0 INCHES
AVERAGE ANNUAL WIND SPEED = 9.30 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 66.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 66.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 67.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.60	2.49	1.68	3.11	4.19	3.06
1.89	2.24	3.60	3.38	2.20	2.06

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
49.10	53.20	60.50	68.70	74.90	81.60
84.70	84.50	79.20	69.80	58.70	52.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX
AND STATION LATITUDE = 29.88 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 3
DRAIN #1: LATERAL DRAINAGE FROM LAYER 2 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.65	2.56	0.82	0.03	1.74	0.00
	0.45	4.41	2.37	5.47	0.82	3.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.144	1.096	2.639	0.157	0.489	0.313
	0.289	4.210	1.900	2.977	1.795	2.583
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 2	0.0000	0.0001	0.0021	0.0005	0.0100	0.0006
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0126	0.0000	0.0001	0.0001
LAYER 3	0.0001	0.2071	0.5300	0.3371	1.4274	0.3974
LATERAL DRAINAGE COLLECTED	0.1883	0.0396	0.0126	0.0000	0.0001	0.0001
FROM LAYER 5	0.0001	0.0171	0.5795	0.1127	0.9789	0.9820

Case 2

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 LAYER 7 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
 TOP OF LAYER 3 0.000 0.007 0.121 0.029 0.579 0.036

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 3 0.000 0.015 0.214 0.052 0.510 0.080

AVERAGE DAILY HEAD ON 0.002 0.000 0.000 0.000 0.000 0.000
 TOP OF LAYER 6 0.000 0.000 0.004 0.001 0.005 0.005

STD. DEVIATION OF DAILY 0.001 0.000 0.000 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 6 0.000 0.000 0.002 0.001 0.001 0.001

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.52	81745.818	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	19.591	71115.124	87.00
DRAINAGE COLLECTED FROM LAYER 2	0.0134	48.477	0.06
PERC./LEAKAGE THROUGH LAYER 3	2.911940	10570.111	12.93
AVG. HEAD ON TOP OF LAYER 3	0.0643		
DRAINAGE COLLECTED FROM LAYER 5	2.9110	10566.582	12.93
PERC./LEAKAGE THROUGH LAYER 7	0.000028	0.103	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0015		
CHANGE IN WATER STORAGE	0.004	15.534	0.02
SOIL WATER AT START OF YEAR	90.390	328108.590	
SOIL WATER AT END OF YEAR	90.385	328125.124	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 3
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 2 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	6.11	2.35	3.42	3.62	2.33
	0.26	8.15	6.72	4.76	2.03	1.05

Case 2

RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.983	2.180	3.905	3.082	3.223	2.630	
	0.534	3.197	2.799	3.687	1.067	2.038	
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.0000	0.0000	0.0118	0.0013	0.0001	0.0000	
	0.0000	0.0001	0.0197	0.0288	0.0402	0.0058	
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0086	0.0597	1.6179	0.5001	0.0994	0.0155	
	0.0000	0.0926	2.1432	2.8295	3.4921	0.7802	
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.1894	0.0596	0.5518	1.0204	0.5123	0.1467	
	0.0497	0.0000	0.6353	1.0545	1.0204	1.0545	
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.000	0.002	0.661	0.077	0.005	0.000
	0.000	0.007	1.140	1.616	2.325	0.325
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.001	0.011	0.618	0.157	0.019	0.001
	0.000	0.026	0.936	0.526	0.253	0.555
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.002	0.001	0.003	0.006	0.003	0.001
	0.000	0.000	0.004	0.006	0.006	0.006
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.001	0.000	0.003	0.000	0.002	0.000
	0.000	0.000	0.003	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.80	148100.772	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	29.323	106441.934	71.67
DRAINAGE COLLECTED FROM LAYER 2	0.1079	391.581	0.26
PERC./LEAKAGE THROUGH LAYER 3	11.638789	42247.885	28.53
AVG. HEAD ON TOP OF LAYER 3	0.5133		
DRAINAGE COLLECTED FROM LAYER 5	6.2947	22849.121	15.43
PERC./LEAKAGE THROUGH LAYER 7	0.000061	0.221	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0031		
CHANGE IN WATER STORAGE	5.074	18417.918	12.44
SOIL WATER AT START OF YEAR	90.395	328125.124	
SOIL WATER AT END OF YEAR	95.488	346543.042	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 3
DRAIN #1: LATERAL DRAINAGE FROM LAYER 2 (RECIRCULATION AND COLLECTION)

Case 2

LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.36	3.57	0.83	1.69	5.59	4.55
	1.68	2.44	0.38	1.03	0.61	3.14
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.627	1.870	1.281	1.724	2.643	4.634
	2.221	2.243	0.625	0.600	0.363	1.639
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.0000	0.0001	0.0049	0.0000	0.0000	0.0131
	0.0060	0.0000	0.0000	0.0000	0.0000	0.0016
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0000	0.2312	0.8923	0.0001	0.0255	1.7576
	0.7798	0.0003	0.0000	0.0000	0.0002	0.5726
LATERAL DRAINAGE COLLECTED FROM LAYER 5	1.0545	0.9524	1.0545	1.0204	1.0545	1.0204
	1.0545	1.0545	0.8435	0.1342	0.0164	0.0911
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.000	0.004	0.274	0.000	0.000	0.756
	0.336	0.000	0.000	0.000	0.000	0.092
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.008	0.362	0.000	0.001	0.680
	0.570	0.000	0.000	0.000	0.000	0.173
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.006	0.006	0.006	0.006	0.006	0.006
	0.006	0.006	0.005	0.001	0.000	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.001	0.000	0.000	0.001

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	25.87	93906.053	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	20.470	74303.571	79.13
DRAINAGE COLLECTED FROM LAYER 2	0.0257	93.140	0.10
PERC./LEAKAGE THROUGH LAYER 3	4.259611	15462.050	16.47
AVG. HEAD ON TOP OF LAYER 3	0.1219		
DRAINAGE COLLECTED FROM LAYER 5	9.3509	33943.089	36.15
PERC./LEAKAGE THROUGH LAYER 7	0.000090	0.326	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0044		

Case 2

CHANGE IN WATER STORAGE	-3.976	-14434.071	-15.37
SOIL WATER AT START OF YEAR	95.468	346543.042	
SOIL WATER AT END OF YEAR	91.492	332108.971	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 3
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 2 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.85	3.06	1.65	3.84	3.05	1.18
	1.76	0.97	3.09	2.66	2.71	1.27
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	2.688	3.060	2.463	2.265	4.682	0.404
	2.466	0.262	3.003	2.399	2.096	0.825
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.0002	0.0003	0.0002	0.0000	0.0007	0.0000
	0.0000	0.0000	0.0022	0.0006	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.1978	0.2558	0.0964	0.0456	0.4147	0.0000
	0.0119	0.0000	0.7600	0.3930	0.0199	0.0112
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.5139	0.1382	0.3079	0.0730	0.3339	0.1172
	0.0197	0.0000	0.3764	0.6038	0.1475	0.0470
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.009	0.017	0.009	0.001	0.039	0.000
	0.000	0.000	0.126	0.035	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.030	0.056	0.035	0.002	0.085	0.000
	0.001	0.000	0.189	0.082	0.003	0.001
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.003	0.001	0.002	0.001	0.002	0.001
	0.000	0.000	0.002	0.003	0.001	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.002	0.001	0.001	0.000	0.002	0.000
	0.000	0.000	0.003	0.002	0.000	0.000

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	28.09	101964.478	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	26.613	96603.882	94.74

Case 2

DRAINAGE COLLECTED FROM LAYER 2	0.0041	14.960	0.01
PERC./LEAKAGE THROUGH LAYER 3	2.206343	8008.850	7.85
AVG. HEAD ON TOP OF LAYER 3	0.0196		
DRAINAGE COLLECTED FROM LAYER 5	2.6785	9722.883	9.54
PERC./LEAKAGE THROUGH LAYER 7	0.000027	0.097	0.00
AVG. HEAD ON TOP OF LAYER 6	0.0016		
CHANGE IN WATER STORAGE	-1.206	-4377.343	-4.29
SOIL WATER AT START OF YEAR	91.492	332108.971	
SOIL WATER AT END OF YEAR	90.286	327731.628	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 3
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 2 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 6
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 5 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.42	2.70	1.93	2.42	3.77	2.00
	0.84	1.25	3.04	1.13	1.04	0.76
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.936	2.295	2.110	2.595	3.289	1.621
	1.213	2.074	2.614	0.580	1.304	0.523
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.0000	0.0000	0.0000	0.0000	0.0004	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0042	0.0027	0.0010	0.0004	0.2539	0.0202
	0.0130	0.0041	0.0013	0.0000	0.0017	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 5	0.0135	0.0027	0.0010	0.0004	0.0771	0.1494
	0.0606	0.0041	0.0013	0.0000	0.0017	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.024	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 3	0.000	0.000	0.000	0.000	0.066	0.002
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.001	0.001
	0.001	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 6	0.000	0.000	0.000	0.000	0.001	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

Case 2

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.32	81019.834	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	22.153	80411.862	99.25
DRAINAGE COLLECTED FROM LAYER 2		0.0004	1.584 0.00
PERC./LEAKAGE THROUGH LAYER 3		0.302512	1098.096 1.36
AVG. HEAD ON TOP OF LAYER 3		0.0021	
DRAINAGE COLLECTED FROM LAYER 5		0.3118	1131.699 1.40
PERC./LEAKAGE THROUGH LAYER 7		0.000003	0.012 0.00
AVG. HEAD ON TOP OF LAYER 6		0.0002	
CHANGE IN WATER STORAGE		-0.145	-525.322 -0.65
SOIL WATER AT START OF YEAR		90.286	327731.628
SOIL WATER AT END OF YEAR		90.141	327206.306
SNOW WATER AT START OF YEAR		0.000	0.000 0.00
SNOW WATER AT END OF YEAR		0.000	0.000 0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	1.06	3.60	1.52	2.28	3.55	2.01
	1.00	3.44	3.12	3.01	1.40	1.93
STD. DEVIATIONS	1.13	1.46	0.68	1.51	1.39	1.68
	0.69	2.96	2.29	2.04	0.93	1.24
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	1.475	2.100	2.479	1.964	2.865	1.921
	1.344	2.397	2.188	2.048	1.325	1.522
STD. DEVIATIONS	0.830	0.712	0.953	1.125	1.525	1.792
	0.977	1.468	0.967	1.408	0.672	0.850
LATERAL DRAINAGE COLLECTED FROM LAYER 2						
TOTALS	0.0000	0.0001	0.0034	0.0003	0.0002	0.0026
	0.0012	0.0000	0.0048	0.0060	0.0100	0.0016
STD. DEVIATIONS	0.0001	0.0001	0.0052	0.0006	0.0003	0.0058
	0.0027	0.0001	0.0084	0.0128	0.0174	0.0024

Case 2

PERCOLATION/LEAKAGE THROUGH LAYER 3

TOTALS	0.0421	0.1099	0.5240	0.1092	0.1587	0.3587
	0.1610	0.0608	0.6869	0.7119	0.9883	0.3523
STD. DEVIATIONS	0.0871	0.1246	0.7159	0.2194	0.1739	0.7821
	0.3460	0.0908	0.8793	1.1979	1.5288	0.3443

LATERAL DRAINAGE COLLECTED FROM LAYER 5

TOTALS	0.3919	0.2385	0.3855	0.4229	0.3956	0.2868
	0.2369	0.2151	0.4872	0.3810	0.4330	0.4349
STD. DEVIATIONS	0.4122	0.4022	0.4382	0.5463	0.4211	0.4146
	0.4577	0.4693	0.3185	0.4419	0.5206	0.5341

PERCOLATION/LEAKAGE THROUGH LAYER 7

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 3

AVERAGES	0.0019	0.0048	0.1888	0.0155	0.0138	0.1514
	0.0672	0.0027	0.2776	0.3360	0.5809	0.0908
STD. DEVIATIONS	0.0040	0.0073	0.2888	0.0343	0.0172	0.3380
	0.1501	0.0037	0.4862	0.7157	1.0068	0.1364

DAILY AVERAGE HEAD ON TOP OF LAYER 6

AVERAGES	0.0025	0.0016	0.0022	0.0024	0.0023	0.0020
	0.0014	0.0012	0.0028	0.0023	0.0026	0.0024
STD. DEVIATIONS	0.0021	0.0023	0.0023	0.0030	0.0023	0.0022
	0.0024	0.0025	0.0019	0.0023	0.0028	0.0028

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	27.92 (7.594)	101347.4	100.00
RUNOFF	0.000 (0.0000)	0.00	0.000
EVAPOTRANSPIRATION	23.630 (4.1772)	85775.27	84.635
LATERAL DRAINAGE COLLECTED FROM LAYER 2	0.03029 (0.04445)	109.948	0.10849
PERCOLATION/LEAKAGE THROUGH LAYER 3	4.26384 (4.36300)	15477.398	15.27163
AVERAGE HEAD ON TOP OF LAYER 3	0.144 (0.211)		
LATERAL DRAINAGE COLLECTED FROM LAYER 5	4.30937 (3.53393)	15642.675	15.43471
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.00004 (0.00003)	0.152	0.00015
AVERAGE HEAD ON TOP OF LAYER 6	0.002 (0.002)		

Case 2

CHANGE IN WATER STORAGE -0.050 (3.2795) -180.66 -0.178

PEAK DAILY VALUES FOR YEARS 1 THROUGH 5 and their dates (DDDDYY)

	(INCHES)	(CU. FT.)	
PRECIPITATION	2.30	8348.81803	2340002
RUNOFF	0.000	0.00000	0
DRAINAGE COLLECTED FROM LAYER 2		0.00147	5.34752 3320002
PERCOLATION/LEAKAGE THROUGH LAYER 3		0.124677	452.56661 3320002
AVERAGE HEAD ON TOP OF LAYER 3		2.559	
MAXIMUM HEAD ON TOP OF LAYER 3		4.433	
LOCATION OF MAXIMUM HEAD IN LAYER 2 (DISTANCE FROM DRAIN)		32.8 FEET	
DRAINAGE COLLECTED FROM LAYER 5		0.03420	124.15522 1370004
PERCOLATION/LEAKAGE THROUGH LAYER 7		0.000000	0.00119 1370004
AVERAGE HEAD ON TOP OF LAYER 6		0.006	
MAXIMUM HEAD ON TOP OF LAYER 6		0.011	
LOCATION OF MAXIMUM HEAD IN LAYER 5 (DISTANCE FROM DRAIN)		0.1 FEET	
SNOW WATER	1.95	7072.4948	3430003
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.4405	
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.0770	

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER STORAGE AT END OF YEAR 5

LAYER	(INCHES)	(VOL/VOL)
1	61.8888	0.2865
2	7.0080	0.2920
3	0.4099	0.4270
4	9.4320	0.4094
5	0.0027	0.0100
6	0.0000	0.0000
7	11.4000	0.4750
SNOW WATER		0.000

CASE 3

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**                               **
**                               **
**   HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE   **
**   HELP MODEL VERSION 3.07 (1 November 1997)       **
**   DEVELOPED BY ENVIRONMENTAL LABORATORY            **
**   USAE WATERWAYS EXPERIMENT STATION               **
**   FOR USEPA RISK REDUCTION ENGINEERING LABORATORY  **
**                               **
**                               **
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PRECIPITATION DATA FILE: C:\WHI\UNSAT22\data\IP922.VHP\weather1.dat
TEMPERATURE DATA FILE: C:\WHI\UNSAT22\data\IP922.VHP\weather2.dat
SOLAR RADIATION DATA FILE: C:\WHI\UNSAT22\data\IP922.VHP\weather3.dat
EVAPOTRANSPIRATION DATA: C:\WHI\UNSAT22\data\IP922.VHP\weather4.dat
SOIL AND DESIGN DATA FILE: C:\WHI\UNSAT22\data\IP922.VHP\386791.inp
OUTPUT DATA FILE: C:\WHI\UNSAT22\data\IP922.VHP\O_386791.pr

TIME: 16:16 DATE: 8/6/2014

TITLE: Case 3

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 130

THICKNESS = 30.48 CM
POROSITY = 0.4570 VOL/VOL
FIELD CAPACITY = 0.1310 VOL/VOL
WILTING POINT = 0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1508 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 18

THICKNESS = 4541.52 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2922 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000224000E-02 CM/SEC

LAYER 3

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 201

THICKNESS = 60.96 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.3055 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

CASE 3

LAYER 4

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16
THICKNESS = 2.44 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 230
THICKNESS = 58.52 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4267 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 6

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 223
THICKNESS = 0.54 CM
POROSITY = 0.6500 VOL/VOL
FIELD CAPACITY = 0.0100 VOL/VOL
WILTING POINT = 0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0951 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 2.760000000000 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 7

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 235
THICKNESS = 0.15 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.200000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 8

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 15
THICKNESS = 60.96 CM
POROSITY = 0.4750 VOL/VOL
FIELD CAPACITY = 0.3780 VOL/VOL
WILTING POINT = 0.2650 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4750 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
SOIL DATA BASE USING SOIL TEXTURE #** WITH A
GOOD STAND OF GRASS, A SURFACE SLOPE OF 30.0%

CASE 3

AND A SLOPE LENGTH OF 30. METERS.

SCS RUNOFF CURVE NUMBER = 0.00
 FRACTION OF AREA ALLOWING RUNOFF = 100.0 PERCENT
 AREA PROJECTED ON HORIZONTAL PLANE = 0.4047 HECTARES
 EVAPORATIVE ZONE DEPTH = 25.4 CM
 INITIAL WATER IN EVAPORATIVE ZONE = 3.641 CM
 UPPER LIMIT OF EVAPORATIVE STORAGE = 11.608 CM
 LOWER LIMIT OF EVAPORATIVE STORAGE = 1.473 CM
 INITIAL SNOW WATER = 0.000 CM
 INITIAL WATER IN LAYER MATERIALS = 1405.156 CM
 TOTAL INITIAL WATER = 1405.156 CM
 TOTAL SUBSURFACE INFLOW = 0.00 MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
 Austin TX

STATION LATITUDE = 30.31 DEGREES
 MAXIMUM LEAF AREA INDEX = 4.50
 START OF GROWING SEASON (JULIAN DATE) = 44
 END OF GROWING SEASON (JULIAN DATE) = 346
 EVAPORATIVE ZONE DEPTH = 10.0 INCHES
 AVERAGE ANNUAL WIND SPEED = 9.30 MPH
 AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %
 AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 67.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.60	2.49	1.68	3.11	4.19	3.06
1.89	2.24	3.60	3.38	2.20	2.06

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
49.10	53.20	60.50	68.70	74.90	81.60
84.70	84.50	79.20	69.80	58.70	52.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR Austin TX
 AND STATION LATITUDE = 29.88 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	4.41	2.37	5.47	0.62	3.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000

CASE 3

	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.771	1.435	2.192	0.029	1.736	0.003
	0.448	4.070	2.206	2.563	1.337	1.944
LATERAL DRAINAGE COLLECTED	0.0038	0.0000	0.0000	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0001	0.0001	0.0001	0.0078	0.0008
PERCOLATION/LEAKAGE THROUGH	0.7484	0.0621	0.3117	0.0681	0.0189	0.0106
LAYER 4	0.0075	0.1867	0.1182	0.2742	1.4551	0.6042
LATERAL DRAINAGE COLLECTED	0.9648	0.0764	0.2739	0.0925	0.0804	0.0547
FROM LAYER 6	0.0437	0.0315	0.1316	0.1579	0.9282	0.9951
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.214	0.001	0.003	0.001	0.000	0.000
TOP OF LAYER 4	0.000	0.004	0.004	0.004	0.450	0.043
STD. DEVIATION OF DAILY	0.305	0.000	0.003	0.001	0.000	0.000
HEAD ON TOP OF LAYER 4	0.000	0.010	0.018	0.009	0.365	0.071
AVERAGE DAILY HEAD ON	0.020	0.002	0.006	0.002	0.002	0.001
TOP OF LAYER 7	0.001	0.001	0.003	0.003	0.019	0.020
STD. DEVIATION OF DAILY	0.005	0.000	0.004	0.002	0.001	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.004	0.003	0.005	0.003

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.52	81745.818	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	18.735	68004.810	83.19
DRAINAGE COLLECTED FROM LAYER 3		0.0126	45.671 0.06
PERC./LEAKAGE THROUGH LAYER 4		3.865597	14031.810 17.17
AVG. HEAD ON TOP OF LAYER 4	0.0603		
DRAINAGE COLLECTED FROM LAYER 6		3.8307	13905.021 17.01
PERC./LEAKAGE THROUGH LAYER 8		0.000005	0.019 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0066		
CHANGE IN WATER STORAGE	-0.056	-209.702	-0.26
SOIL WATER AT START OF YEAR	553.211	2008112.343	
SOIL WATER AT END OF YEAR	553.153	2007902.641	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4

CASE 3

HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	6.11	2.35	3.42	3.62	2.33
	0.26	8.15	6.72	4.76	2.03	1.05
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.659	2.103	2.901	3.495	2.995	2.481
	0.226	4.227	2.601	2.757	1.019	1.140
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0033	0.0004	0.0066	0.0119	0.0002	0.0002
	0.0000	0.0001	0.0083	0.0100	0.0179	0.0268
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.6932	0.4953	1.2666	1.5762	0.4227	0.1861
	0.0189	0.0724	1.3834	1.6688	2.1223	2.7015
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.9430	0.3603	0.7944	1.0205	1.0545	0.7200
	0.0820	0.0540	0.6269	1.0545	1.0205	1.0545
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.186	0.025	0.367	0.687	0.013	0.014
	0.000	0.003	0.478	0.559	1.037	1.499
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.283	0.029	0.380	0.542	0.021	0.043
	0.000	0.011	0.515	0.230	0.398	0.279
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.019	0.008	0.016	0.021	0.021	0.015
	0.002	0.001	0.013	0.021	0.021	0.021
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.005	0.008	0.008	0.000	0.000	0.009
	0.000	0.000	0.010	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.80	148100.772	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	26.604	96571.321	65.21
DRAINAGE COLLECTED FROM LAYER 3	0.0856	310.583	0.21
PERC./LEAKAGE THROUGH LAYER 4	12.607525	45764.316	30.90
AVG. HEAD ON TOP OF LAYER 4	0.4058		
DRAINAGE COLLECTED FROM LAYER 6	8.7847	31887.860	21.53
PERC./LEAKAGE THROUGH LAYER 8	0.000009	0.031	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0151		
CHANGE IN WATER STORAGE	5.325	19330.979	13.05
SOIL WATER AT START OF YEAR	553.153	2007902.641	
SOIL WATER AT END OF YEAR	558.479	2027233.621	

CASE 3

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.36	3.57	0.83	1.69	5.59	4.55
	1.68	2.44	0.38	1.03	0.61	3.14
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.693	1.572	1.104	1.968	2.982	4.773
	1.680	2.439	0.378	1.028	0.346	1.043
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0202	0.0002	0.0091	0.0000	0.0000	0.0064
	0.0079	0.0000	0.0000	0.0000	0.0000	0.0007
PERCOLATION/LEAKAGE THROUGH LAYER 4	2.2965	0.2100	1.5214	0.0344	0.0125	1.3333
	1.0256	0.0150	0.0095	0.0075	0.0056	0.5461
LATERAL DRAINAGE COLLECTED FROM LAYER 6	1.0545	0.9524	1.0545	1.0205	1.0545	1.0205
	1.0545	1.0545	1.0205	1.0545	0.2617	0.2405
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	1.131	0.010	0.507	0.000	0.000	0.369
	0.443	0.000	0.000	0.000	0.000	0.040
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.451	0.024	0.403	0.000	0.000	0.359
	0.572	0.000	0.000	0.000	0.000	0.093
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.021	0.021	0.021	0.021	0.021	0.021
	0.021	0.021	0.021	0.021	0.005	0.005
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.008	0.007

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	25.87	93906.053	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	20.006	72620.544	77.33
DRAINAGE COLLECTED FROM LAYER 3	0.0444	161.051	0.17
PERC./LEAKAGE THROUGH LAYER 4	7.017442	25472.759	27.13
AVG. HEAD ON TOP OF LAYER 4	0.2083		
DRAINAGE COLLECTED FROM LAYER 6	10.8429	39358.724	41.91
PERC./LEAKAGE THROUGH LAYER 8	0.000010	0.036	0.00

CASE 3

AVG. HEAD ON TOP OF LAYER 7	0.0187		
CHANGE IN WATER STORAGE	-5.023	-18234.300	-19.42
SOIL WATER AT START OF YEAR	558.479	2027233.621	
SOIL WATER AT END OF YEAR	553.455	2008999.321	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.85 1.76	3.06 0.97	1.65 3.09	3.84 2.66	3.05 2.71	1.18 1.27
RUNOFF	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
EVAPOTRANSPIRATION	2.057 1.761	1.968 0.726	2.312 2.764	2.868 1.824	4.206 0.906	1.177 0.900
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0016 0.0000	0.0001 0.0000	0.0053 0.0006	0.0000 0.0022	0.0000 0.0007	0.0000 0.0010
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.9845 0.0131	0.4280 0.0087	1.1791 0.5073	0.0543 0.8319	0.1478 0.6391	0.0246 0.3665
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.9673 0.0652	0.6113 0.0487	0.9306 0.3772	0.3867 0.4921	0.1468 0.7319	0.0621 0.6134
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.087 0.000	0.008 0.000	0.297 0.037	0.001 0.123	0.002 0.043	0.000 0.056
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.084 0.000	0.014 0.000	0.304 0.077	0.000 0.161	0.005 0.081	0.000 0.135
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.020 0.001	0.013 0.001	0.019 0.008	0.008 0.010	0.003 0.015	0.001 0.012
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.004 0.001	0.008 0.000	0.006 0.009	0.010 0.009	0.003 0.007	0.001 0.009

ANNUAL TOTALS FOR YEAR 4

INCHES	CU. FEET	PERCENT
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CASE 3

PRECIPITATION	28.09	101964.478	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	23.469	85190.002	83.55
DRAINAGE COLLECTED FROM LAYER 3	0.0116	41.971	0.04
PERC./LEAKAGE THROUGH LAYER 4	5.184961	18821.000	18.46
AVG. HEAD ON TOP OF LAYER 4	0.0546		
DRAINAGE COLLECTED FROM LAYER 6	5.4333	19722.624	19.34
PERC./LEAKAGE THROUGH LAYER 8	0.000006	0.023	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0094		
CHANGE IN WATER STORAGE	-0.824	-2990.141	-2.93
SOIL WATER AT START OF YEAR	553.455	2008999.321	
SOIL WATER AT END OF YEAR	552.632	2006009.180	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	1.42	2.70	1.93	2.42	3.77	2.00
	0.84	1.25	3.04	1.13	1.04	0.78
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	2.056	2.093	2.326	3.020	3.641	1.319
	1.351	1.420	2.889	0.983	0.977	0.595
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0831	0.0280	0.0269	0.0332	0.1045	0.0344
	0.0151	0.0094	0.0977	0.0317	0.0149	0.0099
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0837	0.0620	0.0670	0.0553	0.0517	0.0631
	0.0533	0.0421	0.0357	0.0545	0.0440	0.0366
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.001	0.000	0.000	0.000	0.001	0.000
	0.000	0.000	0.001	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.000	0.000	0.000	0.000	0.002	0.000
	0.000	0.000	0.002	0.000	0.000	0.000

CASE 3

AVERAGE DAILY HEAD ON	0.002	0.001	0.001	0.001	0.001	0.001
TOP OF LAYER 7	0.001	0.001	0.001	0.001	0.001	0.001
STD. DEVIATION OF DAILY	0.001	0.001	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	22.32	81019.834	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	22.668	82282.843	101.56	
DRAINAGE COLLECTED FROM LAYER 3		0.0000	0.088	0.00
PERC./LEAKAGE THROUGH LAYER 4		0.488631	1773.692	2.19
AVG. HEAD ON TOP OF LAYER 4		0.0004		
DRAINAGE COLLECTED FROM LAYER 6		0.6492	2356.524	2.91
PERC./LEAKAGE THROUGH LAYER 8		0.000003	0.011	0.00
AVG. HEAD ON TOP OF LAYER 7		0.0011		
CHANGE IN WATER STORAGE		-0.997	-3619.632	-4.47
SOIL WATER AT START OF YEAR		552.632	2006009.180	
SOIL WATER AT END OF YEAR		551.634	2002389.548	
SNOW WATER AT START OF YEAR		0.000	0.000	0.00
SNOW WATER AT END OF YEAR		0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.84	3.09	4.52	0.95	5.99	3.95
	1.57	4.88	3.80	6.63	2.35	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.171	0.000	0.000
EVAPOTRANSPIRATION	1.442	2.018	3.139	2.059	3.697	4.667
	1.575	3.906	3.862	2.136	1.425	1.001
LATERAL DRAINAGE COLLECTED	0.0002	0.0050	0.0037	0.0014	0.0001	0.0060
FROM LAYER 3	0.0000	0.0001	0.0021	0.0023	0.0215	0.0035
PERCOLATION/LEAKAGE THROUGH	0.4210	1.2584	0.7372	0.6639	0.2216	1.3447
LAYER 4	0.0252	0.2653	0.6270	0.7363	2.3420	0.9097
LATERAL DRAINAGE COLLECTED	0.0576	0.9416	1.0545	0.8671	0.1479	0.8457
FROM LAYER 6	0.6274	0.0799	0.7832	0.3922	1.0205	1.0545

CASE 3

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 LAYER 8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 0.011 0.308 0.208 0.083 0.007 0.347
 TOP OF LAYER 4 0.000 0.006 0.119 0.127 1.243 0.199

STD. DEVIATION OF DAILY 0.020 0.177 0.365 0.116 0.018 0.343
 HEAD ON TOP OF LAYER 4 0.000 0.012 0.194 0.164 0.338 0.232

AVERAGE DAILY HEAD ON 0.001 0.021 0.021 0.018 0.003 0.018
 TOP OF LAYER 7 0.013 0.002 0.016 0.008 0.021 0.021

STD. DEVIATION OF DAILY 0.002 0.001 0.000 0.005 0.004 0.006
 HEAD ON TOP OF LAYER 7 0.010 0.001 0.008 0.009 0.000 0.000

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.97	148717.858	100.00
RUNOFF	0.171	619.841	0.42
EVAPOTRANSPIRATION	30.927	112262.405	75.49
DRAINAGE COLLECTED FROM LAYER 3		0.0458	166.420 0.11
PERC./LEAKAGE THROUGH LAYER 4		9.552406	34674.479 23.32
AVG. HEAD ON TOP OF LAYER 4	0.2216		
DRAINAGE COLLECTED FROM LAYER 6		7.8721	28574.949 19.21
PERC./LEAKAGE THROUGH LAYER 8		0.000008	0.029 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0137		
CHANGE IN WATER STORAGE	1.954	7094.216	4.77
SOIL WATER AT START OF YEAR	551.634	2002389.548	
SOIL WATER AT END OF YEAR	553.589	2009483.765	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 7

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.24	0.57	0.63	4.49	4.20	6.40
	0.64	4.20	4.71	6.58	0.00	3.56
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000

CASE 3

	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.121	0.622	1.157	2.875	4.601	4.100	
	1.036	4.194	3.786	3.523	1.079	1.385	
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0027	0.0000	
FROM LAYER 3	0.0093	0.0036	0.0000	0.0002	0.0075	0.0067	
PERCOLATION/LEAKAGE THROUGH	0.1368	0.0417	0.0172	0.0863	0.9169	0.0236	
LAYER 4	1.5027	0.5666	0.0350	0.3917	1.4087	1.3595	
LATERAL DRAINAGE COLLECTED	1.0545	0.6556	0.0763	0.0510	0.7836	0.1657	
FROM LAYER 6	0.6822	1.0545	0.3527	0.3588	0.7455	1.0545	
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.000	0.000	0.001	0.150	0.000	
TOP OF LAYER 4	0.523	0.200	0.000	0.014	0.434	0.374	
STD. DEVIATION OF DAILY	0.001	0.000	0.000	0.003	0.194	0.001	
HEAD ON TOP OF LAYER 4	0.525	0.382	0.000	0.024	0.399	0.513	
AVERAGE DAILY HEAD ON	0.021	0.015	0.002	0.001	0.016	0.003	
TOP OF LAYER 7	0.014	0.021	0.007	0.007	0.016	0.021	
STD. DEVIATION OF DAILY	0.000	0.009	0.001	0.000	0.009	0.005	
HEAD ON TOP OF LAYER 7	0.010	0.000	0.009	0.007	0.008	0.000	

ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT		
PRECIPITATION	37.22	135105.655	100.00		
RUNOFF	0.000	0.000	0.00		
EVAPOTRANSPIRATION	29.479	107008.164	79.20		
DRAINAGE COLLECTED FROM LAYER 3		0.0300	109.048	0.08	
PERC./LEAKAGE THROUGH LAYER 4		6.486641	23545.992	17.43	
AVG. HEAD ON TOP OF LAYER 4	0.1417				
DRAINAGE COLLECTED FROM LAYER 6		7.0349	25536.197	18.90	
PERC./LEAKAGE THROUGH LAYER 8		0.000007	0.027	0.00	
AVG. HEAD ON TOP OF LAYER 7	0.0121				
CHANGE IN WATER STORAGE		0.676	2452.220	1.82	
SOIL WATER AT START OF YEAR		553.589	2009483.765		
SOIL WATER AT END OF YEAR		554.264	2011935.985		
SNOW WATER AT START OF YEAR		0.000	0.000	0.00	
SNOW WATER AT END OF YEAR		0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4

CASE 3

HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	4.17	0.68	2.95	7.17	2.71
	1.05	0.80	1.04	1.46	1.78	1.94
RUNOFF	0.000	0.000	0.000	0.000	0.419	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.419	1.397	1.966	1.521	4.471	2.220
	1.049	0.800	0.838	1.082	1.333	1.494
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0002	0.0000	0.0069	0.0025	0.0016	0.0216
	0.0057	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.4529	0.1296	1.3073	0.5028	0.9818	2.3498
	0.8196	0.0160	0.0098	0.0073	0.0055	0.1471
LATERAL DRAINAGE COLLECTED FROM LAYER 6	1.0545	0.4615	0.7129	1.0171	0.6315	1.0205
	1.0545	1.0545	0.3827	0.0588	0.0439	0.0303
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.012	0.003	0.389	0.147	0.092	1.251
	0.317	0.000	0.000	0.000	0.000	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.022	0.006	0.430	0.293	0.111	0.332
	0.457	0.000	0.000	0.000	0.000	0.002
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.021	0.010	0.014	0.021	0.017	0.021
	0.021	0.021	0.008	0.001	0.001	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.009	0.009	0.000	0.005	0.000
	0.000	0.000	0.009	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.20	95103.927	100.00
RUNOFF	0.419	1519.388	1.60
EVAPOTRANSPIRATION	19.590	71108.926	74.77
DRAINAGE COLLECTED FROM LAYER 3	0.0386	140.226	0.15
PERC./LEAKAGE THROUGH LAYER 4	6.729451	24427.374	25.68
AVG. HEAD ON TOP OF LAYER 4	0.1844		
DRAINAGE COLLECTED FROM LAYER 6	7.7226	26032.543	29.48
PERC./LEAKAGE THROUGH LAYER 8	0.000008	0.029	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0133		
CHANGE IN WATER STORAGE	-1.570	-5697.183	-5.99
SOIL WATER AT START OF YEAR	554.264	2011935.985	

CASE 3

SOIL WATER AT END OF YEAR	552.695	2006238.802	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.51	3.06	2.77	6.60	0.23	3.79
	0.13	7.61	2.81	3.80	0.40	2.03
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.235	1.621	2.951	3.437	0.348	2.326
	0.506	4.434	3.510	3.651	0.540	1.067
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.0004	0.0046	0.0000	0.0095	0.0139
	0.0048	0.0000	0.0071	0.0087	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.2232	0.3911	0.9181	0.0369	1.5724	1.8423
	0.9350	0.0156	1.3396	1.0884	0.0154	0.0101
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.2010	0.1644	1.0541	0.1513	0.7613	1.0205
	1.0545	1.0545	1.0205	1.0545	0.8335	0.0741
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.002	0.025	0.256	0.000	0.532	0.807
	0.267	0.000	0.412	0.488	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.001	0.043	0.314	0.000	0.507	0.698
	0.328	0.000	0.416	0.618	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.004	0.004	0.021	0.003	0.015	0.021
	0.021	0.021	0.021	0.021	0.017	0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.002	0.005	0.000	0.005	0.008	0.000
	0.000	0.000	0.000	0.000	0.008	0.000

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.74	122473.531	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	25.626	93018.954	75.95
DRAINAGE COLLECTED FROM LAYER 3	0.0490	177.927	0.15

CASE 3

PERC./LEAKAGE THROUGH LAYER 4	8.388224	30448.589	24.86
AVG. HEAD ON TOP OF LAYER 4	0.2326		
DRAINAGE COLLECTED FROM LAYER 6	8.4439	30650.792	25.03
PERC./LEAKAGE THROUGH LAYER 8	0.000008	0.030	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0145		
CHANGE IN WATER STORAGE	-0.379	-1374.172	-1.12
SOIL WATER AT START OF YEAR	552.695	2006238.802	
SOIL WATER AT END OF YEAR	552.316	2004864.630	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.69	3.20	1.58	2.60	3.46	2.01
	2.79	1.18	8.51	0.14	2.97	1.29
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.923	0.588	2.616	2.722	3.114	2.527
	2.729	1.238	5.501	0.656	0.902	0.983
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.0000	0.0051	0.0050	0.0000	0.0000
	0.0000	0.0000	0.0004	0.0087	0.0022	0.0015
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0342	0.1243	1.0955	0.7433	0.0187	0.0106
	0.0083	0.0064	0.4970	1.5763	0.7695	0.5666
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0499	0.0571	0.5538	1.0205	0.3058	0.0590
	0.0462	0.0351	0.2227	0.9452	1.0205	1.0342
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.000	0.001	0.283	0.291	0.000	0.000
	0.000	0.000	0.021	0.488	0.129	0.082
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.001	0.001	0.321	0.451	0.000	0.000
	0.000	0.000	0.038	0.491	0.236	0.124
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.001	0.001	0.011	0.021	0.006	0.001
	0.001	0.001	0.005	0.019	0.021	0.021
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.010	0.000	0.008	0.000
	0.000	0.000	0.007	0.005	0.000	0.002

CASE 3

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.42	114052.114	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	25.499	92559.920	81.16
DRAINAGE COLLECTED FROM LAYER 3	0.0228	82.940	0.07
PERC./LEAKAGE THROUGH LAYER 4	5.450608	19785.275	17.35
AVG. HEAD ON TOP OF LAYER 4	0.1081		
DRAINAGE COLLECTED FROM LAYER 6	5.3500	19420.118	17.03
PERC./LEAKAGE THROUGH LAYER 8	0.000006	0.023	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0092		
CHANGE IN WATER STORAGE	0.548	1989.114	1.74
SOIL WATER AT START OF YEAR	552.316	2004864.630	
SOIL WATER AT END OF YEAR	552.864	2006853.744	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	1.20 1.12	3.21 3.59	1.78 3.65	2.90 3.37	3.88 1.45	2.89 1.89
STD. DEVIATIONS	1.01 0.83	1.38 2.73	1.21 2.47	1.86 2.42	2.03 1.05	1.83 1.13
RUNOFF						
TOTALS	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.017	0.042 0.000	0.000 0.000
STD. DEVIATIONS	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.054	0.132 0.000	0.000 0.000
EVAPOTRANSPIRATION						
TOTALS	1.338 1.236	1.542 2.745	2.266 2.834	2.399 2.020	3.179 0.986	2.559 1.155
STD. DEVIATIONS	0.542 0.751	0.560 1.572	0.702 1.491	1.049 1.086	1.308 0.344	1.559 0.372
LATERAL DRAINAGE COLLECTED FROM LAYER 3						
TOTALS	0.0029 0.0028	0.0006 0.0004	0.0041 0.0018	0.0021 0.0032	0.0014 0.0058	0.0048 0.0041
STD. DEVIATIONS	0.0062 0.0038	0.0015 0.0011	0.0032 0.0032	0.0038 0.0042	0.0030 0.0080	0.0075 0.0082

CASE 3

PERCOLATION/LEAKAGE THROUGH LAYER 4

TOTALS	0.6074	0.3168	0.8381	0.3799	0.4418	0.7160
	0.4371	0.1162	0.4624	0.6614	0.8778	0.7221

STD. DEVIATIONS	0.6711	0.3718	0.5456	0.5061	0.5361	0.9075
	0.5722	0.1818	0.5262	0.6275	0.9060	0.8096

LATERAL DRAINAGE COLLECTED FROM LAYER 6

TOTALS	0.6431	0.4343	0.6572	0.5682	0.5218	0.5032
	0.4763	0.4509	0.4954	0.5623	0.6650	0.6188

STD. DEVIATIONS	0.4725	0.3487	0.3963	0.4556	0.4126	0.4555
	0.4647	0.5196	0.3522	0.4247	0.3975	0.4724

PERCOLATION/LEAKAGE THROUGH LAYER 8

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES	0.1646	0.0382	0.2310	0.1211	0.0799	0.2789
	0.1551	0.0214	0.1073	0.1805	0.3337	0.2296

STD. DEVIATIONS	0.3490	0.0954	0.1785	0.2208	0.1669	0.4339
	0.2110	0.0628	0.1824	0.2346	0.4614	0.4612

DAILY AVERAGE HEAD ON TOP OF LAYER 7

AVERAGES	0.0131	0.0097	0.0133	0.0119	0.0106	0.0106
	0.0097	0.0092	0.0104	0.0114	0.0139	0.0126

STD. DEVIATIONS	0.0096	0.0078	0.0080	0.0096	0.0084	0.0096
	0.0094	0.0105	0.0074	0.0086	0.0083	0.0096

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	30.92 (7.046)	112219.0	100.00
RUNOFF	0.059 (0.1373)	213.92	0.191
EVAPOTRANSPIRATION	24.260 (4.1391)	88062.79	78.474
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.03405 (0.02452)	123.593	0.11014
PERCOLATION/LEAKAGE THROUGH LAYER 4	6.57715 (3.27198)	23874.529	21.27494
AVERAGE HEAD ON TOP OF LAYER 4	0.162 (0.116)		
LATERAL DRAINAGE COLLECTED FROM LAYER 6	6.59643 (2.89151)	23944.535	21.33733
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.00001 (0.00000)	0.026	0.00002
AVERAGE HEAD ON TOP OF LAYER 7	0.011 (0.005)		

CASE 3

CHANGE IN WATER STORAGE -0.035 (2.6340) -125.86 -0.112

PEAK DAILY VALUES FOR YEARS 1 THROUGH 10 and their dates (DDDDYY)

	(INCHES)	(CU. FT.)		
PRECIPITATION	5.09	18476.29728	1290008	
RUNOFF	0.419	1519.38840	1290008	
DRAINAGE COLLECTED FROM LAYER 3		0.00108	3.93578	3280006
PERCOLATION/LEAKAGE THROUGH LAYER 4		0.100742	365.68628	3280006
AVERAGE HEAD ON TOP OF LAYER 4		1.883		
MAXIMUM HEAD ON TOP OF LAYER 4		3.348		
LOCATION OF MAXIMUM HEAD IN LAYER 3 (DISTANCE FROM DRAIN)		27.2 FEET		
DRAINAGE COLLECTED FROM LAYER 6		0.03402	123.47238	10001
PERCOLATION/LEAKAGE THROUGH LAYER 8		0.000000	0.00011	10001
AVERAGE HEAD ON TOP OF LAYER 7		0.021		
MAXIMUM HEAD ON TOP OF LAYER 7		0.043		
LOCATION OF MAXIMUM HEAD IN LAYER 6 (DISTANCE FROM DRAIN)		0.8 FEET		
SNOW WATER	1.95	7072.4948	3430003	
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.4570		
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.0580		

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER STORAGE AT END OF YEAR 10

LAYER	(INCHES)	(VOL/VOL)
1	2.2911	0.1909
2	522.0960	0.2920
3	7.0097	0.2921
4	0.4099	0.4270
5	9.6455	0.4186
6	0.0121	0.0574
7	0.0000	0.0000
8	11.4000	0.4750
SNOW WATER	0.000	

CASE 4

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**                                     **
**                                     **
**      HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE      **
**      HELP MODEL VERSION 3.07 (1 November 1997)          **
**      DEVELOPED BY ENVIRONMENTAL LABORATORY                **
**      USAE WATERWAYS EXPERIMENT STATION                   **
**      FOR USEPA RISK REDUCTION ENGINEERING LABORATORY      **
**                                     **
**                                     **
*****
*****
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PRECIPITATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather1.dat
TEMPERATURE DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather2.dat
SOLAR RADIATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather3.dat
EVAPOTRANSPIRATION DATA: C:\WHI\UNSAT22\data\P922.VHP_weather4.dat
SOIL AND DESIGN DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_386099.inp
OUTPUT DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_O_386099.prt

TIME: 10:32 DATE: 8/21/2014

TITLE: Case 4

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 130

THICKNESS = 60.96 CM
POROSITY = 0.4570 VOL/VOL
FIELD CAPACITY = 0.1310 VOL/VOL
WILTING POINT = 0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2418 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 2

TYPE 4 - FLEXIBLE MEMBRANE LINER

MATERIAL TEXTURE NUMBER 236

THICKNESS = 0.10 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.400000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 3

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 16

THICKNESS = 45.72 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-06 CM/SEC

CASE 4

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 130

THICKNESS = 30.48 CM
POROSITY = 0.4570 VOL/VOL
FIELD CAPACITY = 0.1310 VOL/VOL
WILTING POINT = 0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1310 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 18

THICKNESS = 4541.52 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2920 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000224000E-02 CM/SEC

LAYER 6

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 201

THICKNESS = 60.96 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2920 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 7

TYPE 3 - BARRIER SOIL LINER

MATERIAL TEXTURE NUMBER 16

THICKNESS = 2.44 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 8

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 230

THICKNESS = 58.52 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4106 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 9

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 224

THICKNESS = 0.53 CM
POROSITY = 0.8500 VOL/VOL

CASE 4

FIELD CAPACITY = 0.0100 VOL/VOL
WILTING POINT = 0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0157 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.830000000000 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 10

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 235
THICKNESS = 0.15 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.200000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 11

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 15
THICKNESS = 60.96 CM
POROSITY = 0.4750 VOL/VOL
FIELD CAPACITY = 0.3780 VOL/VOL
WILTING POINT = 0.2650 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4750 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
SOIL DATA BASE USING SOIL TEXTURE #** WITH A
GOOD STAND OF GRASS, A SURFACE SLOPE OF 25.0%
AND A SLOPE LENGTH OF 30.0 METERS.

SCS RUNOFF CURVE NUMBER = 0.00
FRACTION OF AREA ALLOWING RUNOFF = 100.0 PERCENT
AREA PROJECTED ON HORIZONTAL PLANE = 0.4047 HECTARES
EVAPORATIVE ZONE DEPTH = 55.9 CM
INITIAL WATER IN EVAPORATIVE ZONE = 12.416 CM
UPPER LIMIT OF EVAPORATIVE STORAGE = 25.537 CM
LOWER LIMIT OF EVAPORATIVE STORAGE = 3.241 CM
INITIAL SNOW WATER = 0.000 CM
INITIAL WATER IN LAYER MATERIALS = 1436.211 CM
TOTAL INITIAL WATER = 1436.211 CM
TOTAL SUBSURFACE INFLOW = 0.00 MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
Austin TX

STATION LATITUDE = 30.31 DEGREES
MAXIMUM LEAF AREA INDEX = 4.50
START OF GROWING SEASON (JULIAN DATE) = 44
END OF GROWING SEASON (JULIAN DATE) = 346
EVAPORATIVE ZONE DEPTH = 22.0 INCHES
AVERAGE ANNUAL WIND SPEED = 9.30 MPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 66.00 %
AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %
AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 68.00 %
AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 67.00 %

CASE 4

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.60	2.49	1.68	3.11	4.19	3.06
1.89	2.24	3.60	3.38	2.20	2.06

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
49.10	53.20	60.50	68.70	74.90	81.60
84.70	84.50	79.20	69.80	58.70	52.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX
AND STATION LATITUDE = 29.88 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11
MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.65	2.56	0.82	0.03	1.74	0.00
	0.45	4.41	2.37	5.47	0.62	3.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.766	1.457	2.286	3.161	1.732	0.008
	0.450	4.390	2.133	2.397	1.362	1.848
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0053	0.0049	0.0027	0.0041	0.0029	0.0023
	0.0017	0.0013	0.0010	0.0008	0.0006	0.0005
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	6.701	6.881	7.285	5.040	2.000	2.000
	2.000	2.000	2.000	2.003	2.899	5.846
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.075	0.051	0.266	2.474	0.000	0.000
	0.000	0.000	0.000	0.012	0.335	1.998

CASE 4

AVERAGE DAILY HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	22.52	81745.818	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	21.992	79827.467	97.65	
PERC./LEAKAGE THROUGH LAYER 3		0.001417	5.143	0.01
AVG. HEAD ON TOP OF LAYER 2	3.8879			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001416	5.142	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0282	102.435	0.13
PERC./LEAKAGE THROUGH LAYER 11		0.000003	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0002			
CHANGE IN WATER STORAGE	0.500	1815.908	2.22	
SOIL WATER AT START OF YEAR	585.437	2052493.080		
SOIL WATER AT END OF YEAR	565.938	2054308.988		
SNOW WATER AT START OF YEAR	0.000	0.000	0.00	
SNOW WATER AT END OF YEAR	0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	6.11	2.35	3.42	3.62	2.33
	0.26	8.15	6.72	4.76	2.03	1.05
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.706	2.384	2.974	5.007	7.251	3.645
	0.233	4.152	6.018	3.061	1.066	0.843
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0003	0.0005	0.0005	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0004	0.0005	0.0006
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0003	0.0005	0.0005	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0004	0.0005	0.0006
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0006	0.0003	0.0005	0.0004	0.0005	0.0004
	0.0003	0.0003	0.0003	0.0002	0.0003	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	8.197	9.362	18.259	15.896	8.359	2.212
	2.000	2.640	4.732	12.595	16.792	20.246
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.072	2.705	0.443	0.998	2.787	0.606
	0.000	1.664	2.588	4.506	0.524	0.835
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.80	148100.772	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	37.340	135541.642	91.52
PERC./LEAKAGE THROUGH LAYER 3	0.003548	12.880	0.01
AVG. HEAD ON TOP OF LAYER 2	10.1075		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003550	12.887	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0044	15.917	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000003	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	3.456	12543.207	8.47
SOIL WATER AT START OF YEAR	565.938	2054308.988	
SOIL WATER AT END OF YEAR	569.393	2066852.195	

CASE 4

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.36	3.57	0.83	1.69	5.59	4.55
	1.68	2.44	0.38	1.03	0.61	3.14
RUNOFF	0.000	1.101	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.851	1.588	1.110	5.968	6.263	7.300
	1.683	2.440	0.380	1.030	0.384	0.728
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0006	0.0006	0.0006	0.0005	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0006	0.0006	0.0006	0.0005	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0003	0.0004	0.0004	0.0005	0.0004	0.0004
	0.0003	0.0002	0.0003	0.0002	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	19.350	21.034	21.192	17.117	3.894	3.607
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.344	2.227	0.546	3.234	2.560	1.018
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	25.87	93906.053	100.00	
RUNOFF	1.101	3998.259	4.26	
EVAPOTRANSPIRATION	29.723	107892.851	114.89	
PERC./LEAKAGE THROUGH LAYER 3		0.002851	10.350	0.01
AVG. HEAD ON TOP OF LAYER 2	8.1827			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.002851	10.350	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0038	13.745	0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE	-4.958	-17998.810	-19.17	
SOIL WATER AT START OF YEAR	569.393	2066852.195		
SOIL WATER AT END OF YEAR	564.435	2048853.385		
SNOW WATER AT START OF YEAR	0.000	0.000	0.00	
SNOW WATER AT END OF YEAR	0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.85	3.06	1.65	3.84	3.05	1.18
	1.76	0.97	3.09	2.66	2.71	1.27
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.387	1.943	2.499	5.071	6.187	1.169
	1.771	0.702	3.341	2.339	0.950	1.002
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0002	0.0003	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0002	0.0003	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

CASE 4

LATERAL DRAINAGE COLLECTED 0.0002 0.0002 0.0002 0.0001 0.0002 0.0002
FROM LAYER 9 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 2.651 7.198 10.989 9.060 3.832 2.000
TOP OF LAYER 2 2.000 2.000 2.000 2.000 2.000 2.000

STD. DEVIATION OF DAILY 0.810 2.419 0.115 1.897 1.736 0.000
HEAD ON TOP OF LAYER 2 0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	28.09	101964.478	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	28.360	102945.652	100.96
PERC./LEAKAGE THROUGH LAYER 3	0.001447	5.253	0.01
AVG. HEAD ON TOP OF LAYER 2	3.9774		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001447	5.253	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0017	6.286	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-0.272	-987.467	-0.97
SOIL WATER AT START OF YEAR	564.435	2048853.385	
SOIL WATER AT END OF YEAR	584.163	2047865.917	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7

CASE 4

DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.42	2.70	1.93	2.42	3.77	2.00
	0.84	1.25	3.04	1.13	1.04	0.78
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.785	2.041	2.590	4.420	3.770	1.294
	1.396	1.400	3.040	0.987	0.924	0.814
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	1.999	1.999	2.072	2.235	2.000	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.068	0.189	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.32	81019.834	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	24.460	88788.393	109.59
PERC./LEAKAGE THROUGH LAYER 3	0.000774	2.810	0.00
AVG. HEAD ON TOP OF LAYER 2	2.0253		

CASE 4

DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000774	2.810	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0009	3.237	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-2.141	-7771.804	-9.59
SOIL WATER AT START OF YEAR	564.163	2047865.917	
SOIL WATER AT END OF YEAR	562.022	2040094.113	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.84	3.09	4.52	0.95	5.99	3.95
	1.57	4.88	3.80	6.63	2.35	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.011	0.000	0.000
EVAPOTRANSPIRATION	1.307	2.049	3.110	5.159	3.558	6.350
	1.602	4.222	4.453	2.253	1.368	0.845
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	3.426	4.511	4.469	2.000	2.026
	2.000	2.000	2.000	6.884	8.744	11.236

CASE 4

STD. DEVIATION OF DAILY	0.000	0.921	0.090	1.754	0.000	0.076
HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	2.503	0.036	0.651
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.97	148717.858	100.00
RUNOFF	0.011	40.894	0.03
EVAPOTRANSPIRATION	36.276	131679.898	88.54
PERC./LEAKAGE THROUGH LAYER 3	0.001555	5.645	0.00
AVG. HEAD ON TOP OF LAYER 2	4.2745		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001555	5.645	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0010	3.794	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	4.681	16993.267	11.43
SOIL WATER AT START OF YEAR	562.022	2040094.113	
SOIL WATER AT END OF YEAR	566.703	2057087.380	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11
MONTHLY TOTALS (IN INCHES) FOR YEAR 7

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	1.24	0.57	0.63	4.49	4.20	6.40
	0.64	4.20	4.71	6.58	0.00	3.56

CASE 4

RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.290	0.642	1.731	5.437	6.497	4.315	
	3.155	4.181	3.700	3.239	1.027	1.183	
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0004	0.0003	0.0003	0.0002	0.0001	0.0001	
	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0004	0.0003	0.0003	0.0002	0.0001	0.0001	
	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003	
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	
	0.0002	0.0002	0.0001	0.0001	0.0001	0.0002	
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	11.833	11.603	11.163	7.306	3.276	2.006
	2.205	2.000	2.000	2.507	7.054	8.621
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.054	0.067	0.170	2.544	1.064	0.034
	0.439	0.000	0.000	0.952	0.580	1.205
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.22	135105.655	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	36.396	132113.263	97.79
PERC./LEAKAGE THROUGH LAYER 3	0.002122	7.704	0.01
AVG. HEAD ON TOP OF LAYER 2	5.9645		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.002122	7.704	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0021	7.795	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	0.822	2984.590	2.21
SOIL WATER AT START OF YEAR	566.703	2057087.380	

CASE 4

SOIL WATER AT END OF YEAR	567.525	2060071.970	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	4.17	0.68	2.95	7.17	2.71
	1.05	0.80	1.04	1.46	1.78	1.94
RUNOFF	0.000	0.000	0.000	0.000	0.195	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.426	1.406	2.461	6.312	7.182	4.874
	1.050	0.800	0.896	0.743	0.910	1.033
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0004	0.0004	0.0005	0.0003	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0004	0.0004	0.0005	0.0003	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0002	0.0003	0.0003	0.0002	0.0003
	0.0002	0.0002	0.0002	0.0002	0.0002	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	11.882	12.807	17.958	9.854	9.345	2.607
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.384	1.843	0.787	4.189	3.792	1.320
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.20	95103.927	100.00
RUNOFF	0.195	708.962	0.75
EVAPOTRANSPIRATION	29.094	105607.157	111.04
PERC./LEAKAGE THROUGH LAYER 3		0.002268	8.232 0.01
AVG. HEAD ON TOP OF LAYER 2	6.3709		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.002267	8.230 0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0024	8.858 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000003	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.091	-11221.058	-11.80
SOIL WATER AT START OF YEAR	567.525	2060071.970	
SOIL WATER AT END OF YEAR	564.434	2048850.912	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.51	3.06	2.77	6.60	0.23	3.79
	0.13	7.61	2.81	3.80	0.40	2.03
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.156	1.667	2.835	5.595	4.399	3.585
	0.490	4.371	6.031	3.003	0.930	0.899
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

CASE 4

LATERAL DRAINAGE COLLECTED	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001
FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	1.999	3.688	6.572	6.261	4.836	2.000
TOP OF LAYER 2	2.000	2.116	3.098	2.000	2.000	2.000
STD. DEVIATION OF DAILY	0.000	1.551	0.188	1.808	3.346	0.000
HEAD ON TOP OF LAYER 2	0.000	0.364	1.089	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.74	122473.531	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	34.961	126905.089	103.62
PERC./LEAKAGE THROUGH LAYER 3	0.001186	4.305	0.00
AVG. HEAD ON TOP OF LAYER 2	3.2140		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001187	4.307	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0014	5.015	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.222	-4436.581	-3.62
SOIL WATER AT START OF YEAR	564.434	2048850.912	
SOIL WATER AT END OF YEAR	563.212	2044414.332	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2

CASE 4

DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.69	3.20	1.58	2.60	3.46	2.01
	2.79	1.18	8.51	0.14	2.97	1.29
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.364	0.810	2.701	5.227	3.126	2.720
	2.743	1.235	5.567	2.016	1.016	0.892
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	2.000	5.050	4.023	2.000	2.000
	2.000	2.000	2.127	4.332	4.013	3.921
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	1.084	1.875	0.000	0.000
	0.000	0.000	0.322	0.556	0.158	0.003
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.42	114052.114	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	29.415	106774.756	93.62

CASE 4

PERC./LEAKAGE THROUGH LAYER 3	0.001103	4.004	0.00
AVG. HEAD ON TOP OF LAYER 2	2.9553		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001103	4.004	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0010	3.753	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	2.004	7273.598	6.38
SOIL WATER AT START OF YEAR	563.212	2044414.332	
SOIL WATER AT END OF YEAR	565.216	2051687.929	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 11

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.69	1.89	2.95	4.16	1.97	3.80
	2.10	3.79	3.06	3.14	0.70	3.90
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.169	1.632	3.094	6.387	2.797	1.487
	4.292	3.911	2.793	2.135	0.964	0.881
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

CASE 4

AVERAGE DAILY HEAD ON	4.088	4.606	5.038	4.108	2.031	2.000
TOP OF LAYER 2	2.000	2.000	2.000	2.000	2.000	1.999
STD. DEVIATION OF DAILY	0.133	0.135	0.217	1.407	0.122	0.000
HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.15	116701.956	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	31.541	114489.789	98.10
PERC./LEAKAGE THROUGH LAYER 3	0.001050	3.811	0.00
AVG. HEAD ON TOP OF LAYER 2	2.8225		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001049	3.809	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0012	4.180	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	0.608	2207.980	1.89
SOIL WATER AT START OF YEAR	565.216	2051687.929	
SOIL WATER AT END OF YEAR	565.824	2053895.909	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 12

CASE 4

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	0.39	1.56	2.18	4.56	5.35	9.42
	3.20	1.34	1.45	2.27	3.35	1.80
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.019
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.102	1.407	2.812	5.441	6.265	4.755
	8.729	1.495	1.092	2.085	1.209	0.952
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001
	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	5.329	6.754	6.776	6.814	3.377	2.072
	10.624	2.000	2.000	2.000	2.000	2.857
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	1.090	0.096	0.107	0.883	1.194	0.398
	4.216	0.000	0.000	0.000	0.000	0.954
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT
PRECIPITATION	36.87	133835.183	100.00
RUNOFF	0.019	69.844	0.05
EVAPOTRANSPIRATION	37.344	135556.514	101.29
PERC./LEAKAGE THROUGH LAYER 3	0.001597	5.795	0.00
AVG. HEAD ON TOP OF LAYER 2	4.3835		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001597	5.797	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		

CASE 4

DRAINAGE COLLECTED FROM LAYER 9	0.0015	5.444	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-0.495	-1796.626	-1.34
SOIL WATER AT START OF YEAR	565.824	2053895.909	
SOIL WATER AT END OF YEAR	565.329	2052099.283	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 13

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.47	1.76	1.54	1.39	4.57	6.70
	1.53	0.07	2.18	2.65	1.55	0.52
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.765	1.859	1.640	5.428	3.698	7.525
	1.576	0.070	2.098	1.160	0.835	0.937
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	5.324	6.550	7.766	5.684	2.000	2.918
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.312	0.389	0.258	2.180	0.000	1.089
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	26.93	97753.769	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	28.591	103784.575	106.17	
PERC./LEAKAGE THROUGH LAYER 3		0.001287	4.671	0.00
AVG. HEAD ON TOP OF LAYER 2	3.5199			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001287	4.671	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0014	4.942	0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE	-1.663	-6035.755	-6.17	
SOIL WATER AT START OF YEAR	565.329	2052099.283		
SOIL WATER AT END OF YEAR	563.666	2046063.528		
SNOW WATER AT START OF YEAR	0.000	0.000	0.00	
SNOW WATER AT END OF YEAR	0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 14

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.89	2.96	0.73	2.65	3.30	2.95
	0.00	1.87	0.82	2.84	3.36	1.96
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

EVAPOTRANSPIRATION	1.101	1.283	2.103	4.573	2.159	2.685
	1.445	1.870	0.820	1.250	1.212	1.213
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	1.999	1.999	2.557	2.947	2.000	2.000
	2.000	2.000	2.000	2.000	2.014	6.022
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.558	0.608	0.000	0.000
	0.000	0.000	0.000	0.000	0.079	2.160
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 14

	INCHES	CU. FEET	PERCENT
PRECIPITATION	24.33	88315.975	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	21.714	78819.374	89.25
PERC./LEAKAGE THROUGH LAYER 3	0.000929	3.371	0.00
AVG. HEAD ON TOP OF LAYER 2	2.4614		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000926	3.363	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0009	3.247	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	2.615	9493.347	10.75
SOIL WATER AT START OF YEAR	563.666	2046063.528	

CASE 4

SOIL WATER AT END OF YEAR	566.281	2055556.875	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11
MONTHLY TOTALS (IN INCHES) FOR YEAR 15

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	0.79	2.22	0.83	4.07	8.34	2.21
	3.64	0.11	4.65	0.17	1.38	5.66
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.290	1.897	1.324	6.063	7.134	5.199
	3.677	0.110	1.497	1.572	0.572	1.133
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0003	0.0003	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0003	0.0003	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	9.038	9.229	9.246	6.478	2.523	2.000
	2.000	2.000	2.313	5.298	5.666	7.473
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.124	0.024	0.034	2.346	0.547	0.000
	0.000	0.000	0.722	0.490	0.000	3.114
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 15

CASE 4

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	34.07	123671.404	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	31.468	114225.830	92.36	
PERC./LEAKAGE THROUGH LAYER 3		0.001892	6.869	0.01
AVG. HEAD ON TOP OF LAYER 2	5.2720			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001895	6.877	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0016	5.938	0.00
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE		2.601	9439.630	7.63
SOIL WATER AT START OF YEAR		566.281	2055556.875	
SOIL WATER AT END OF YEAR		568.882	2064996.505	
SNOW WATER AT START OF YEAR		0.000	0.000	0.00
SNOW WATER AT END OF YEAR		0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 18

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.50	2.01	1.02	1.85	0.81	1.45
	2.57	1.68	3.48	3.02	1.80	3.03
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.209	1.319	1.746	6.536	2.462	1.382
	2.637	1.680	2.776	3.050	1.113	1.159
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0005	0.0005	0.0005	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0005	0.0005	0.0005	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

CASE 4

LATERAL DRAINAGE COLLECTED 0.0002 0.0003 0.0003 0.0003 0.0003 0.0003
 FROM LAYER 9 0.0002 0.0002 0.0001 0.0002 0.0001 0.0001
 PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 17.295 18.100 18.476 11.524 2.429 2.000
 TOP OF LAYER 2 2.000 2.000 2.000 2.000 2.000 2.000
 STD. DEVIATION OF DAILY 0.539 1.684 0.611 3.629 0.959 0.000
 HEAD ON TOP OF LAYER 2 0.000 0.000 0.000 0.000 0.000 0.000
 AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
 TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000
 STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000
 AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
 TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000
 STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 16

	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.20	84214.164	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	27.071	98265.608	116.69
PERC./LEAKAGE THROUGH LAYER 3	0.002408	8.742	0.01
AVG. HEAD ON TOP OF LAYER 2	6.8185		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.002408	8.742	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0025	9.245	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000003	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.874	-14060.697	-16.70
SOIL WATER AT START OF YEAR	568.882	2064996.505	
SOIL WATER AT END OF YEAR	565.008	2050935.808	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)

CASE 4

LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 17

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.54	2.81	0.67	2.06	4.74	0.08
	4.57	4.38	0.27	0.15	3.89	0.70
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.526	2.461	1.557	3.797	5.691	0.080
	2.979	5.967	0.274	0.147	0.813	1.158
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	3.662	4.849	6.095	3.520	2.329	2.000
	2.000	2.000	2.000	2.000	2.409	4.134
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.796	0.278	0.368	1.771	0.532	0.000
	0.000	0.000	0.000	0.000	0.645	0.210
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	25.86	93869.754	100.00
RUNOFF	0.000	0.000	0.00

CASE 4

EVAPOTRANSPIRATION	26.450	96009.932	102.28
PERC./LEAKAGE THROUGH LAYER 3	0.001142	4.146	0.00
AVG. HEAD ON TOP OF LAYER 2	3.0831		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001141	4.142	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0013	4.628	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-0.591	-2144.814	-2.28
SOIL WATER AT START OF YEAR	565.008	2050935.808	
SOIL WATER AT END OF YEAR	564.418	2048790.994	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 18

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	6.39	1.46	2.44	1.58	3.26
	6.60	1.37	4.62	0.76	1.92	1.20
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.528	1.665	2.986	4.875	4.886	3.260
	6.600	1.370	3.546	1.706	0.980	0.765
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0003	0.0005	0.0004	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0003	0.0005	0.0004	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CASE 4

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	4.642	12.000	16.710	13.195	4.452	2.000
	2.404	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.072	4.233	0.690	1.742	2.786	0.000
	0.624	0.000	0.000	0.002	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.05	116338.964	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	33.167	120393.878	103.49
PERC./LEAKAGE THROUGH LAYER 3	0.001934	7.022	0.01
AVG. HEAD ON TOP OF LAYER 2	5.4502		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001936	7.026	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0019	6.842	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.119	-4061.763	-3.49
SOIL WATER AT START OF YEAR	564.418	2048790.994	
SOIL WATER AT END OF YEAR	563.299	2044729.231	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

CASE 4

MONTHLY TOTALS (IN INCHES) FOR YEAR 19

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.83	3.34	1.75	1.47	2.04	0.58
	2.03	2.25	1.40	0.66	2.57	0.01
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.247	1.874	2.134	3.496	2.180	0.580
	2.006	2.274	1.367	0.693	0.849	0.785
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	2.000	2.413	2.692	2.000	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.382	0.640	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.93	68714.402	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	19.485	70729.112	102.93
PERC./LEAKAGE THROUGH LAYER 3	0.000798	2.895	0.00
AVG. HEAD ON TOP OF LAYER 2	2.0919		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000797	2.894	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0009	3.384	0.00

CASE 4

PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-0.556	-2018.102	-2.94
SOIL WATER AT START OF YEAR	563.299	2044729.231	
SOIL WATER AT END OF YEAR	562.743	2042711.129	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 20

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.68	0.42	1.80	3.35	4.36	1.32
	0.56	1.46	6.19	2.35	1.02	1.69
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.390	0.648	1.520	4.631	4.353	1.333
	0.560	1.409	4.232	3.032	1.123	1.521
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	1.999	1.999	2.000	2.000	2.000
	2.000	2.000	2.257	3.957	2.629	2.089
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.477	0.452	0.208	0.096
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.20	95103.927	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	25.753	93483.097	98.30
PERC./LEAKAGE THROUGH LAYER 3	0.000854	3.101	0.00
AVG. HEAD ON TOP OF LAYER 2	2.2441		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.000854	3.101	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0008	2.843	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	0.446	1617.980	1.70
SOIL WATER AT START OF YEAR	562.743	2042711.129	
SOIL WATER AT END OF YEAR	563.188	2044329.109	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 21

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.29	0.99	2.08	8.53	5.62	0.70
	3.46	3.30	4.64	3.35	0.85	3.51
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

EVAPOTRANSPIRATION	1.634	1.262	2.427	5.317	7.409	2.553
	2.525	4.218	3.667	2.793	0.919	0.970
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	2.000	2.000	4.684	10.888	2.510
	2.000	2.000	2.000	2.158	4.176	
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	2.428	3.517	1.034
	0.000	0.000	0.000	0.001	0.222	1.002
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.32	139098.568	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	35.693	129563.421	93.15
PERC./LEAKAGE THROUGH LAYER 3	0.001186	4.304	0.00
AVG. HEAD ON TOP OF LAYER 2	3.2013		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001186	4.306	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0011	4.063	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	2.626	9531.078	6.85
SOIL WATER AT START OF YEAR	563.188	2044329.109	
SOIL WATER AT END OF YEAR	565.814	2053860.187	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00

CASE 4

SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 22

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.31	1.42	0.65	2.58	1.28	0.00
	2.65	1.83	5.20	0.74	0.40	0.06
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.728	1.414	1.238	5.594	1.282	0.000
	2.229	2.251	2.744	2.591	0.912	0.117
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0001	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	6.003	7.542	7.710	6.009	2.000	2.000
	1.999	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.705	0.140	0.064	2.212	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 22

CASE 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.12	65774.166	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	22.101	80226.695	121.97
PERC./LEAKAGE THROUGH LAYER 3		0.001314	4.768 0.01
AVG. HEAD ON TOP OF LAYER 2	3.6052		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001313	4.766 0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0014	5.059 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.983	-14457.595	-21.98
SOIL WATER AT START OF YEAR	565.814	2053860.187	
SOIL WATER AT END OF YEAR	561.831	2039402.592	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 23

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.22 3.41 2.97 5.31 7.63 3.88	5.01 0.00 1.28 0.85 5.34 2.15				
RUNOFF	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000				
EVAPOTRANSPIRATION	0.659 1.944 3.278 5.325 5.760 7.453	5.046 0.000 1.280 0.850 1.155 1.051				
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001 0.0001 0.0001 0.0001 0.0001 0.0002	0.0001 0.0001 0.0001 0.0001 0.0001 0.0003				
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000				
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001 0.0001 0.0001 0.0001 0.0001 0.0002	0.0001 0.0001 0.0001 0.0001 0.0001 0.0003				
LATERAL DRAINAGE COLLECTED	0.0001 0.0001 0.0001 0.0001 0.0001 0.0001					

CASE 4

FROM LAYER 9 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	2.000	2.000	2.000	2.000	2.218	5.624
TOP OF LAYER 2	2.000	2.000	2.000	2.000	3.357	9.195
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.519	1.744
HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	1.873	1.354
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT
PRECIPITATION	39.05	141748.410	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	33.800	122691.984	86.56
PERC./LEAKAGE THROUGH LAYER 3	0.001125	4.085	0.00
AVG. HEAD ON TOP OF LAYER 2	3.0327		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001123	4.076	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0009	3.343	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	5.249	19053.076	13.44
SOIL WATER AT START OF YEAR	561.831	2039402.592	
SOIL WATER AT END OF YEAR	567.080	2058455.668	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7

CASE 4

HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 24

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.17	0.58	1.58	4.22	6.64	2.26
	1.30	1.70	1.57	2.09	3.32	2.15
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.966	0.397	2.025	5.702	7.521	4.121
	0.919	2.081	1.570	0.923	1.263	1.236
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0004	0.0003	0.0003	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0004	0.0003	0.0003	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0002	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	11.786	11.953	11.756	6.919	5.427	2.995
	2.000	2.000	2.000	2.000	2.363	4.598
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.108	0.030	0.234	3.639	2.307	1.265
	0.000	0.000	0.000	0.000	0.530	1.503
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	27.58	100113.218	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	28.723	104263.391	104.15
PERC./LEAKAGE THROUGH LAYER 3	0.001967	7.139	0.01
AVG. HEAD ON TOP OF LAYER 2	5.4830		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001969	7.149	0.01

CASE 4

AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0020	7.188	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.145	-4157.369	-4.15
SOIL WATER AT START OF YEAR	567.080	2058455.668	
SOIL WATER AT END OF YEAR	565.935	2054298.299	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.25	3.25	0.79	2.87	4.75	2.48
	4.21	1.75	3.02	0.89	2.33	2.37
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.392	1.699	1.071	5.377	6.020	2.232
	5.796	1.635	2.112	1.999	0.933	0.967
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	8.191	12.750	14.655	10.676	3.356	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.232	2.681	0.245	2.218	1.934	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 25

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.96	108752.430	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	31.234	113378.407	104.25
PERC./LEAKAGE THROUGH LAYER 3		0.001884	6.837 0.01
AVG. HEAD ON TOP OF LAYER 2	5.3021		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001884	6.837 0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0019	7.051 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE		-1.276	-4633.035 -4.26
SOIL WATER AT START OF YEAR		565.935	2054298.299
SOIL WATER AT END OF YEAR		564.658	2049665.264
SNOW WATER AT START OF YEAR		0.000	0.000 0.00
SNOW WATER AT END OF YEAR		0.000	0.000 0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 26

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.89	0.86	1.30	1.41	5.60	1.47
	1.42	4.56	4.16	6.97	1.58	3.85
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

EVAPOTRANSPIRATION	1.123	1.100	2.600	2.498	4.636	2.434
	1.420	4.560	3.267	2.739	1.117	1.292
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0003	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0003	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.174	3.052	3.369	2.161	2.000	2.000
	2.000	2.000	2.000	5.172	11.130	15.686
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.306	0.140	0.108	0.417	0.000	0.000
	0.000	0.000	0.000	3.839	0.267	3.800
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT
PRECIPITATION	34.07	123671.404	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	28.806	104563.493	84.55
PERC./LEAKAGE THROUGH LAYER 3	0.001594	5.786	0.00
AVG. HEAD ON TOP OF LAYER 2	4.3955		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001594	5.786	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0012	4.354	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	5.263	19103.550	15.45
SOIL WATER AT START OF YEAR	564.658	2049665.264	
SOIL WATER AT END OF YEAR	569.921	2068768.814	

CASE 4

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 27

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.15	1.94	0.59	1.39	4.74	3.79
	1.20	7.30	0.74	6.22	4.05	0.04
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.962	1.347	1.013	5.242	7.439	4.719
	1.200	3.842	4.198	1.786	1.255	0.872
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0006	0.0006	0.0006	0.0004	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0004	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0006	0.0006	0.0006	0.0004	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0004	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0003	0.0004	0.0004	0.0004	0.0003
	0.0003	0.0002	0.0002	0.0001	0.0002	0.0003
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	20.224	21.049	20.552	15.159	8.309	2.142
	2.000	2.000	2.118	2.263	14.063	18.128
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.570	1.057	0.458	3.718	1.215	0.401
	0.000	0.000	0.270	0.628	3.276	0.343
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 27

CASE 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.15	120331.877	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	34.875	126593.159	105.20
PERC./LEAKAGE THROUGH LAYER 3		0.003710	13.467 0.01
AVG. HEAD ON TOP OF LAYER 2	10.6672		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.003706	13.452 0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0034	12.226 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.728	-6273.515	-5.21
SOIL WATER AT START OF YEAR	569.921	2068768.814	
SOIL WATER AT END OF YEAR	568.193	2062495.299	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 26

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.62 0.67 2.47 1.67 2.99 0.47	0.47 5.39 4.00 4.98 4.30 1.75				
RUNOFF	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.002 0.000 0.000				
EVAPOTRANSPIRATION	1.259 1.393 2.404 4.422 6.646 1.116	0.510 4.832 4.093 3.368 1.907 1.003				
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0005 0.0005 0.0006 0.0005 0.0002 0.0001	0.0001 0.0001 0.0001 0.0001 0.0001 0.0003				
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	0.0000 0.0000 0.0000 0.0000 0.0000 0.0000				
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0005 0.0005 0.0006 0.0005 0.0002 0.0001	0.0001 0.0001 0.0001 0.0001 0.0001 0.0003				
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0003 0.0003 0.0004 0.0005 0.0004 0.0003	0.0003 0.0002 0.0002 0.0002 0.0002 0.0001				

CASE 4

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 17.236 18.988 20.146 16.994 6.425 2.023
 TOP OF LAYER 2 2.000 2.000 2.000 2.234 5.020 8.447

STD. DEVIATION OF DAILY 0.450 0.441 0.837 1.862 2.963 0.084
 HEAD ON TOP OF LAYER 2 0.000 0.000 0.000 0.408 1.764 0.175

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
 TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
 TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.78	115358.886	100.00
RUNOFF	0.002	7.372	0.01
EVAPOTRANSPIRATION	32.956	119628.407	103.70
PERC./LEAKAGE THROUGH LAYER 3	0.003033	11.008	0.01
AVG. HEAD ON TOP OF LAYER 2	8.6260		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003037	11.024	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0034	12.496	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000003	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.182	-4289.396	-3.72
SOIL WATER AT START OF YEAR	568.193	2062495.299	
SOIL WATER AT END OF YEAR	567.011	2058205.903	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10

CASE 4

DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 29

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.87	2.16	3.83	1.40	1.36	9.35
	3.18	3.09	2.36	4.34	2.64	2.73
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.514	1.273	3.685	5.368	2.970	4.418
	8.020	3.204	1.381	2.178	0.929	1.124
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0003	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0002	0.0001	0.0001	0.0001	0.0002	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0003	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0002	0.0001	0.0001	0.0001	0.0002	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0002	0.0002	0.0002	0.0003	0.0002
	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	10.662	11.502	14.776	11.536	2.499	2.234
	6.303	2.000	2.000	2.000	6.418	16.125
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	1.073	0.032	1.320	3.244	0.987	1.085
	2.187	0.000	0.000	0.000	2.588	3.246
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.31	135432.348	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	36.066	130915.026	96.66
PERC./LEAKAGE THROUGH LAYER 3	0.002595	9.418	0.01
AVG. HEAD ON TOP OF LAYER 2	7.3378		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00

CASE 4

PERC./LEAKAGE THROUGH LAYER 7	0.002590	9.403	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0024	8.782	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	1.242	4508.533	3.33
SOIL WATER AT START OF YEAR	567.011	2058205.903	
SOIL WATER AT END OF YEAR	568.253	2062714.435	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.42	2.35	1.86	5.85	7.21	1.03
	2.19	1.98	1.22	3.07	1.17	2.89
RUNOFF	0.000	0.000	0.000	0.000	0.427	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.557	1.130	2.546	6.335	6.989	7.055
	1.915	2.390	1.217	2.066	1.009	1.023
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0005	0.0005	0.0006	0.0005	0.0006	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0005	0.0005	0.0006	0.0005	0.0006	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0003	0.0003	0.0003	0.0004	0.0004	0.0005
	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	17.095	17.669	20.328	17.310	19.573	7.653
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.470	1.885	0.996	1.838	2.792	4.819
	0.000	0.000	0.000	0.000	0.000	0.000

CASE 4

AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.24	117028.649	100.00
RUNOFF	0.427	1549.350	1.32
EVAPOTRANSPIRATION	35.233	127892.217	109.28
PERC./LEAKAGE THROUGH LAYER 3	0.003246	11.783	0.01
AVG. HEAD ON TOP OF LAYER 2	9.3022		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003250	11.799	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0035	12.882	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.423	-12425.807	-10.62
SOIL WATER AT START OF YEAR	568.253	2062714.435	
SOIL WATER AT END OF YEAR	564.830	2050288.628	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	1.15	2.50	1.69	3.07	4.12	2.87
	2.10	2.84	3.09	2.84	2.07	2.03
STD. DEVIATIONS	0.76	1.44	0.99	1.85	2.16	2.46
	1.60	2.21	2.00	2.10	1.33	1.35
RUNOFF						
TOTALS	0.000	0.037	0.000	0.000	0.021	0.001
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.201	0.000	0.000	0.085	0.004
	0.000	0.000	0.000	0.002	0.000	0.000
EVAPOTRANSPIRATION						

CASE 4

TOTALS	1.272	1.500	2.250	5.125	4.942	3.322
	2.622	2.569	2.720	1.973	1.034	1.008

STD. DEVIATIONS	0.347	0.489	0.721	0.949	1.980	2.310
	2.218	1.627	1.614	0.878	0.265	0.287

PERCOLATION/LEAKAGE THROUGH LAYER 3

TOTALS	0.0002	0.0002	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002

STD. DEVIATIONS	0.0002	0.0002	0.0002	0.0001	0.0001	0.0000
	0.0001	0.0000	0.0000	0.0001	0.0001	0.0002

LATERAL DRAINAGE COLLECTED FROM LAYER 6

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PERCOLATION/LEAKAGE THROUGH LAYER 7

TOTALS	0.0002	0.0002	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002

STD. DEVIATIONS	0.0002	0.0002	0.0002	0.0001	0.0001	0.0000
	0.0001	0.0000	0.0000	0.0001	0.0001	0.0002

LATERAL DRAINAGE COLLECTED FROM LAYER 9

TOTALS	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001

STD. DEVIATIONS	0.0010	0.0009	0.0005	0.0007	0.0005	0.0004
	0.0003	0.0002	0.0002	0.0001	0.0001	0.0001

PERCOLATION/LEAKAGE THROUGH LAYER 11

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	7.3787	8.5530	9.9806	7.7890	4.3125	2.4875
	2.4510	2.0250	2.1547	2.9080	4.1575	5.8266

STD. DEVIATIONS	5.9463	6.1486	6.6724	4.9848	3.8061	1.2195
	1.7320	0.1180	0.5300	2.2124	3.8442	5.3964

DAILY AVERAGE HEAD ON TOP OF LAYER 7

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

DAILY AVERAGE HEAD ON TOP OF LAYER 10

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

STD. DEVIATIONS	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

CASE 4

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	30.38 (6.302)	110267.3	100.00
RUNOFF	0.059 (0.2143)	212.49	0.193
EVAPOTRANSPIRATION	30.336 (5.0975)	110118.34	99.865
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.00179 (0.00083)	6.511	0.00591
AVERAGE HEAD ON TOP OF LAYER 2	5.002 (2.450)		
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.00000 (0.00000)	0.000	0.00000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.00179 (0.00083)	6.512	0.00591
AVERAGE HEAD ON TOP OF LAYER 7	0.000 (0.000)		
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.00275 (0.00491)	9.966	0.00904
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.00000 (0.00000)	0.009	0.00001
AVERAGE HEAD ON TOP OF LAYER 10	0.000 (0.000)		
CHANGE IN WATER STORAGE	-0.020 (2.7023)	-73.48	-0.067

PEAK DAILY VALUES FOR YEARS 1 THROUGH 30 and their dates (DDDDYYYY)

	(INCHES)	(CU. FT.)
PRECIPITATION	5.09	18476.29728 1290008
RUNOFF	0.963	3497.42756 460003
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.000023	0.08234 460003
AVERAGE HEAD ON TOP OF LAYER 2	24.000	
DRAINAGE COLLECTED FROM LAYER 6	0.00000	0.00000 460003
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.000027	0.09945 1340030
AVERAGE HEAD ON TOP OF LAYER 7	0.000	
MAXIMUM HEAD ON TOP OF LAYER 7	0.000	
LOCATION OF MAXIMUM HEAD IN LAYER 6 (DISTANCE FROM DRAIN)	0.0 FEET	
DRAINAGE COLLECTED FROM LAYER 9	0.00069	2.50530 100001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.000000	0.00003 100001
AVERAGE HEAD ON TOP OF LAYER 10	0.001	
MAXIMUM HEAD ON TOP OF LAYER 10	0.003	
LOCATION OF MAXIMUM HEAD IN LAYER 9 (DISTANCE FROM DRAIN)	0.0 FEET	
SNOW WATER	1.95	7072.4948 3430003

CASE 4

MAXIMUM VEG. SOIL WATER (VOL/VOL) 0.4570

MINIMUM VEG. SOIL WATER (VOL/VOL) 0.0580

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(INCHES)	(VOL/VOL)
1	5.2234	0.2176
2	0.0000	0.0000
3	7.6860	0.4270
4	1.5720	0.1310
5	522.0960	0.2920
6	7.0080	0.2920
7	0.4099	0.4270
8	9.4327	0.4094
9	0.0021	0.0100
10	0.0000	0.0000
11	11.4000	0.4750

SNOW WATER 0.000

Case 5

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*****
*****
**                               **
**                               **
**   HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE   **
**   HELP MODEL VERSION 3.07 (1 November 1997)       **
**   DEVELOPED BY ENVIRONMENTAL LABORATORY           **
**   USAE WATERWAYS EXPERIMENT STATION              **
**   FOR USEPA RISK REDUCTION ENGINEERING LABORATORY  **
**                               **
**                               **
*****
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PRECIPITATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather1.dat
TEMPERATURE DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather2.dat
SOLAR RADIATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather3.dat
EVAPOTRANSPIRATION DATA: C:\WHI\UNSAT22\data\P922.VHP_weather4.dat
SOIL AND DESIGN DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_387045.inp
OUTPUT DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_O_387045.prt

TIME: 10:46 DATE: 8/21/2014

TITLE: Case 5

NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 130

THICKNESS = 30.48 CM
POROSITY = 0.4570 VOL/VOL
FIELD CAPACITY = 0.1310 VOL/VOL
WILTING POINT = 0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1508 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER

MATERIAL TEXTURE NUMBER 18

THICKNESS = 5882.64 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2921 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.10000224000E-02 CM/SEC

LAYER 3

TYPE 2 - LATERAL DRAINAGE LAYER

MATERIAL TEXTURE NUMBER 201

THICKNESS = 60.96 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.3055 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

Case 5

LAYER 4

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16
THICKNESS = 2.44 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 230
THICKNESS = 58.52 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4267 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 6

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 225
THICKNESS = 0.49 CM
POROSITY = 0.8500 VOL/VOL
FIELD CAPACITY = 0.0100 VOL/VOL
WILTING POINT = 0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1602 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 1.710000000000 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 7

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 235
THICKNESS = 0.15 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.200000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 8

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 15
THICKNESS = 60.96 CM
POROSITY = 0.4750 VOL/VOL
FIELD CAPACITY = 0.3780 VOL/VOL
WILTING POINT = 0.2650 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4750 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
SOIL DATA BASE USING SOIL TEXTURE #** WITH A
GOOD STAND OF GRASS, A SURFACE SLOPE OF 4.%,
AND A SLOPE LENGTH OF 30. METERS.

SCS RUNOFF CURVE NUMBER = 0.00

Case 5

FRACTION OF AREA ALLOWING RUNOFF = 100.0 PERCENT
 AREA PROJECTED ON HORIZONTAL PLANE = 0.4047 HECTARES
 EVAPORATIVE ZONE DEPTH = 25.4 CM
 INITIAL WATER IN EVAPORATIVE ZONE = 3.641 CM
 UPPER LIMIT OF EVAPORATIVE STORAGE = 11.608 CM
 LOWER LIMIT OF EVAPORATIVE STORAGE = 1.473 CM
 INITIAL SNOW WATER = 0.000 CM
 INITIAL WATER IN LAYER MATERIALS = 1796.797 CM
 TOTAL INITIAL WATER = 1796.797 CM
 TOTAL SUBSURFACE INFLOW = 0.00 MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
 Austin TX

STATION LATITUDE = 30.31 DEGREES
 MAXIMUM LEAF AREA INDEX = 4.50
 START OF GROWING SEASON (JULIAN DATE) = 44
 END OF GROWING SEASON (JULIAN DATE) = 346
 EVAPORATIVE ZONE DEPTH = 10.0 INCHES
 AVERAGE ANNUAL WIND SPEED = 9.30 MPH
 AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %
 AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 67.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.60	2.49	1.68	3.11	4.19	3.06
1.89	2.24	3.60	3.38	2.20	2.06

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
49.10	53.20	60.50	68.70	74.90	81.60
84.70	84.50	79.20	69.80	58.70	52.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR Austin TX
 AND STATION LATITUDE = 29.88 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.65	2.56	0.82	0.03	1.74	0.00
	0.45	4.41	2.37	5.47	0.62	3.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

Case 5

EVAPOTRANSPIRATION 0.771 1.435 2.192 0.029 1.736 0.003
 0.448 4.070 2.206 2.563 1.337 1.944

LATERAL DRAINAGE COLLECTED 0.0038 0.0000 0.0000 0.0000 0.0000 0.0000
 FROM LAYER 3 0.0000 0.0001 0.0001 0.0001 0.0078 0.0007

PERCOLATION/LEAKAGE THROUGH 0.7509 0.0617 0.3140 0.0662 0.0189 0.0106
 LAYER 4 0.0075 0.1831 0.1217 0.2679 1.4604 0.6053

LATERAL DRAINAGE COLLECTED 0.9774 0.0625 0.2945 0.0865 0.0197 0.0553
 FROM LAYER 6 0.0428 0.0311 0.1930 0.1588 0.9106 1.0021

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 LAYER 8 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 0.215 0.001 0.003 0.001 0.000 0.000
 TOP OF LAYER 4 0.000 0.004 0.005 0.006 0.453 0.041

STD. DEVIATION OF DAILY 0.305 0.000 0.003 0.000 0.000 0.000
 HEAD ON TOP OF LAYER 4 0.000 0.011 0.020 0.013 0.361 0.070

AVERAGE DAILY HEAD ON 0.032 0.002 0.010 0.003 0.001 0.002
 TOP OF LAYER 7 0.001 0.001 0.007 0.005 0.031 0.033

STD. DEVIATION OF DAILY 0.007 0.001 0.006 0.003 0.000 0.001
 HEAD ON TOP OF LAYER 7 0.001 0.001 0.009 0.006 0.009 0.004

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.52	81745.818	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	18.735	68004.810	83.19
DRAINAGE COLLECTED FROM LAYER 3		0.0127	46.063 0.06
PERC./LEAKAGE THROUGH LAYER 4		3.868302	14041.629 17.18
AVG. HEAD ON TOP OF LAYER 4	0.0608		
DRAINAGE COLLECTED FROM LAYER 6		3.8342	13917.915 17.03
PERC./LEAKAGE THROUGH LAYER 8		0.000007	0.024 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0106		
CHANGE IN WATER STORAGE		-0.061	-222.993 -0.27
SOIL WATER AT START OF YEAR		707.400	2567807.781
SOIL WATER AT END OF YEAR		707.339	2567584.787
SNOW WATER AT START OF YEAR		0.000	0.000 0.00
SNOW WATER AT END OF YEAR		0.000	0.000 0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

Case 5

MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00	6.11	2.35	3.42	3.62	2.33
	0.26	8.15	6.72	4.76	2.03	1.05
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.659	2.103	2.901	3.495	2.995	2.481
	0.226	4.227	2.601	2.757	1.019	1.140
LATERAL DRAINAGE COLLECTED	0.0033	0.0004	0.0065	0.0119	0.0002	0.0002
FROM LAYER 3	0.0000	0.0000	0.0081	0.0096	0.0172	0.0262
PERCOLATION/LEAKAGE THROUGH	0.6930	0.4952	1.2616	1.5888	0.4114	0.1900
LAYER 4	0.0189	0.0720	1.3737	1.6440	2.0792	2.6667
LATERAL DRAINAGE COLLECTED	0.9512	0.3497	0.7934	1.0205	1.0545	0.7330
FROM LAYER 6	0.0239	0.0532	0.6721	1.0545	1.0205	1.0545
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.185	0.026	0.366	0.687	0.014	0.013
TOP OF LAYER 4	0.000	0.002	0.471	0.537	0.996	1.468
STD. DEVIATION OF DAILY	0.282	0.030	0.374	0.539	0.023	0.040
HEAD ON TOP OF LAYER 4	0.000	0.007	0.506	0.224	0.388	0.274
AVERAGE DAILY HEAD ON	0.031	0.013	0.026	0.035	0.035	0.025
TOP OF LAYER 7	0.001	0.002	0.023	0.035	0.035	0.035
STD. DEVIATION OF DAILY	0.008	0.013	0.012	0.000	0.000	0.015
HEAD ON TOP OF LAYER 7	0.001	0.001	0.014	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.80	148100.772	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	26.604	96571.321	65.21
DRAINAGE COLLECTED FROM LAYER 3	0.0837	303.855	0.21
PERC./LEAKAGE THROUGH LAYER 4	12.494606	45354.432	30.62
AVG. HEAD ON TOP OF LAYER 4	0.3970		
DRAINAGE COLLECTED FROM LAYER 6	8.7809	31873.803	21.52
PERC./LEAKAGE THROUGH LAYER 8	0.000012	0.043	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0244		
CHANGE IN WATER STORAGE	5.331	19351.752	13.07
SOIL WATER AT START OF YEAR	707.339	2567584.787	
SOIL WATER AT END OF YEAR	712.670	2586936.539	

Case 5

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.36	3.57	0.83	1.69	5.59	4.55
	1.68	2.44	0.38	1.03	0.61	3.14
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.693	1.572	1.104	1.968	2.982	4.773
	1.680	2.439	0.378	1.028	0.346	1.043
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0212	0.0002	0.0090	0.0000	0.0000	0.0063
	0.0080	0.0000	0.0000	0.0000	0.0000	0.0007
PERCOLATION/LEAKAGE THROUGH LAYER 4	2.3600	0.2593	1.5225	0.0339	0.0125	1.3272
	1.0317	0.0151	0.0094	0.0075	0.0056	0.5467
LATERAL DRAINAGE COLLECTED FROM LAYER 6	1.0545	0.9524	1.0545	1.0205	1.0545	1.0205
	1.0545	1.0545	1.0205	1.0545	0.2547	0.2523
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	1.189	0.015	0.506	0.000	0.000	0.363
	0.446	0.000	0.000	0.000	0.000	0.039
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.391	0.031	0.401	0.000	0.000	0.355
	0.571	0.000	0.000	0.000	0.000	0.092
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.035	0.035	0.035	0.035	0.035	0.035
	0.035	0.035	0.035	0.035	0.009	0.008
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.013	0.011

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT
PRECIPITATION	25.87	93906.053	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	20.006	72620.544	77.33
DRAINAGE COLLECTED FROM LAYER 3	0.0454	164.781	0.18
PERC./LEAKAGE THROUGH LAYER 4	7.131401	25886.423	27.57

Case 5

AVG. HEAD ON TOP OF LAYER 4	0.2132		
DRAINAGE COLLECTED FROM LAYER 6	10.8476	39375.925	41.93
PERC./LEAKAGE THROUGH LAYER 8	0.000014	0.051	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0302		
CHANGE IN WATER STORAGE	-5.029	-18255.247	-19.44
SOIL WATER AT START OF YEAR	712.670	2586936.539	
SOIL WATER AT END OF YEAR	707.641	2568681.293	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 4

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.85	3.06	1.65	3.84	3.05	1.18
	1.76	0.97	3.09	2.66	2.71	1.27
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	2.057	1.968	2.312	2.868	4.206	1.177
	1.761	0.726	2.764	1.824	0.906	0.900
LATERAL DRAINAGE COLLECTED	0.0015	0.0001	0.0053	0.0000	0.0000	0.0000
FROM LAYER 3	0.0000	0.0000	0.0006	0.0022	0.0008	0.0010
PERCOLATION/LEAKAGE THROUGH	0.9841	0.4246	1.1825	0.0543	0.1478	0.0246
LAYER 4	0.0130	0.0088	0.5073	0.8320	0.6386	0.3671
LATERAL DRAINAGE COLLECTED	0.9663	0.6203	0.9188	0.3999	0.1470	0.0254
FROM LAYER 6	0.0445	0.0473	0.4334	0.4847	0.7309	0.6234
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.087	0.009	0.299	0.000	0.002	0.000
TOP OF LAYER 4	0.000	0.000	0.037	0.122	0.044	0.056
STD. DEVIATION OF DAILY	0.083	0.014	0.303	0.000	0.005	0.000
HEAD ON TOP OF LAYER 4	0.000	0.000	0.077	0.161	0.080	0.135
AVERAGE DAILY HEAD ON	0.032	0.022	0.030	0.014	0.005	0.001
TOP OF LAYER 7	0.001	0.002	0.015	0.016	0.025	0.020
STD. DEVIATION OF DAILY	0.007	0.013	0.010	0.015	0.005	0.000
HEAD ON TOP OF LAYER 7	0.001	0.001	0.015	0.015	0.011	0.015

Case 5

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	28.09	101964.478	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	23.469	85190.002	83.55
DRAINAGE COLLECTED FROM LAYER 3	0.0116	42.115	0.04
PERC./LEAKAGE THROUGH LAYER 4	5.184462	18819.187	18.46
AVG. HEAD ON TOP OF LAYER 4	0.0547		
DRAINAGE COLLECTED FROM LAYER 6	5.4418	19753.146	19.37
PERC./LEAKAGE THROUGH LAYER 8	0.000008	0.031	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0151		
CHANGE IN WATER STORAGE	-0.832	-3020.815	-2.96
SOIL WATER AT START OF YEAR	707.641	2568681.293	
SOIL WATER AT END OF YEAR	706.809	2565660.478	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.42	2.70	1.93	2.42	3.77	2.00
	0.84	1.25	3.04	1.13	1.04	0.78
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	2.056	2.093	2.326	3.020	3.641	1.319
	1.351	1.420	2.889	0.983	0.977	0.595
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0831	0.0280	0.0274	0.0327	0.1045	0.0345
	0.0148	0.0095	0.0972	0.0320	0.0151	0.0099
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0846	0.0479	0.0503	0.0464	0.0476	0.0359
	0.0362	0.0502	0.0419	0.0576	0.0459	0.0389
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

Case 5

AVERAGE DAILY HEAD ON TOP OF LAYER 4 0.001 0.000 0.000 0.000 0.001 0.000
0.000 0.000 0.001 0.000 0.000 0.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4 0.000 0.000 0.000 0.000 0.002 0.000
0.000 0.000 0.001 0.000 0.000 0.000

AVERAGE DAILY HEAD ON TOP OF LAYER 7 0.003 0.002 0.002 0.002 0.002 0.001
0.001 0.002 0.001 0.002 0.002 0.001

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7 0.001 0.001 0.001 0.001 0.001 0.000
0.001 0.001 0.001 0.001 0.001 0.001

ANNUAL TOTALS FOR YEAR 5

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.32	81019.834	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	22.668	82282.843	101.56
DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.086	0.00
PERC./LEAKAGE THROUGH LAYER 4	0.488699	1773.937	2.19
AVG. HEAD ON TOP OF LAYER 4	0.0004		
DRAINAGE COLLECTED FROM LAYER 6	0.5833	2117.406	2.61
PERC./LEAKAGE THROUGH LAYER 8	0.000003	0.012	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0016		
CHANGE IN WATER STORAGE	-0.931	-3380.511	-4.17
SOIL WATER AT START OF YEAR	706.809	2565660.478	
SOIL WATER AT END OF YEAR	705.878	2562279.967	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.84	3.09	4.52	0.95	5.99	3.95
	1.57	4.88	3.80	6.63	2.35	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.171	0.000	0.000
EVAPOTRANSPIRATION	1.442	2.018	3.139	2.059	3.697	4.667
	1.575	3.906	3.862	2.136	1.425	1.001
LATERAL DRAINAGE COLLECTED	0.0002	0.0049	0.0037	0.0014	0.0001	0.0060

Case 5

FROM LAYER 3	0.0000	0.0001	0.0021	0.0023	0.0213	0.0037
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.4200	1.2559	0.7407	0.6636	0.2215	1.3441
	0.0264	0.2629	0.6292	0.7336	2.3331	0.9230
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.1122	0.9423	1.0545	0.8775	0.1423	0.8410
	0.6102	0.0896	0.8022	0.3795	1.0205	1.0545
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.013	0.306	0.209	0.082	0.007	0.347
	0.000	0.007	0.120	0.126	1.235	0.207
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.023	0.174	0.366	0.117	0.018	0.342
	0.000	0.013	0.194	0.162	0.336	0.241
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.004	0.034	0.035	0.030	0.005	0.028
	0.020	0.003	0.027	0.012	0.035	0.035
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.006	0.001	0.000	0.008	0.006	0.010
	0.016	0.003	0.012	0.015	0.000	0.000

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.97	148717.858	100.00
RUNOFF	0.171	619.841	0.42
EVAPOTRANSPIRATION	30.927	112262.405	75.49
DRAINAGE COLLECTED FROM LAYER 3	0.0459	166.547	0.11
PERC./LEAKAGE THROUGH LAYER 4	9.554077	34680.545	23.32
AVG. HEAD ON TOP OF LAYER 4	0.2217		
DRAINAGE COLLECTED FROM LAYER 6	7.9264	28772.071	19.35
PERC./LEAKAGE THROUGH LAYER 8	0.000011	0.040	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0222		
CHANGE IN WATER STORAGE	1.900	6896.957	4.64
SOIL WATER AT START OF YEAR	705.878	2562279.967	
SOIL WATER AT END OF YEAR	707.778	2569176.924	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 7

Case 5

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	1.24	0.57	0.63	4.49	4.20	6.40
	0.64	4.20	4.71	6.58	0.00	3.56
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.121	0.622	1.157	2.875	4.601	4.100
	1.036	4.194	3.786	3.523	1.079	1.385
LATERAL DRAINAGE COLLECTED	0.0000	0.0000	0.0000	0.0000	0.0026	0.0000
FROM LAYER 3	0.0092	0.0036	0.0000	0.0002	0.0074	0.0067
PERCOLATION/LEAKAGE THROUGH	0.1358	0.0411	0.0171	0.0857	0.9172	0.0239
LAYER 4	1.4978	0.5716	0.0346	0.3915	1.4024	1.3662
LATERAL DRAINAGE COLLECTED	1.0545	0.6579	0.0320	0.0486	0.8344	0.1335
FROM LAYER 6	0.7128	1.0545	0.3319	0.3814	0.7393	1.0545
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	0.001	0.000	0.000	0.001	0.144	0.000
TOP OF LAYER 4	0.514	0.203	0.000	0.014	0.430	0.378
STD. DEVIATION OF DAILY	0.001	0.000	0.000	0.003	0.193	0.001
HEAD ON TOP OF LAYER 4	0.521	0.386	0.000	0.024	0.393	0.514
AVERAGE DAILY HEAD ON	0.035	0.024	0.001	0.002	0.027	0.005
TOP OF LAYER 7	0.023	0.035	0.011	0.012	0.025	0.035
STD. DEVIATION OF DAILY	0.000	0.015	0.001	0.001	0.012	0.009
HEAD ON TOP OF LAYER 7	0.014	0.000	0.015	0.011	0.013	0.000

ANNUAL TOTALS FOR YEAR 7

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.22	135105.655	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	29.479	107008.164	79.20
DRAINAGE COLLECTED FROM LAYER 3	0.0298	108.178	0.08
PERC./LEAKAGE THROUGH LAYER 4	6.484874	23539.579	17.42
AVG. HEAD ON TOP OF LAYER 4	0.1405		
DRAINAGE COLLECTED FROM LAYER 6	7.0351	25537.037	18.90
PERC./LEAKAGE THROUGH LAYER 8	0.000010	0.037	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0195		
CHANGE IN WATER STORAGE	0.676	2452.241	1.82
SOIL WATER AT START OF YEAR	707.778	2569176.924	
SOIL WATER AT END OF YEAR	708.453	2571629.165	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

Case 5

 HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	4.17	0.68	2.95	7.17	2.71
	1.05	0.80	1.04	1.46	1.78	1.94
RUNOFF	0.000	0.000	0.000	0.000	0.419	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.419	1.397	1.966	1.521	4.471	2.220
	1.049	0.800	0.838	1.082	1.333	1.494
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0002	0.0000	0.0070	0.0026	0.0017	0.0214
	0.0058	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.4545	0.1282	1.3026	0.5074	0.9789	2.3344
	0.8379	0.0161	0.0096	0.0074	0.0055	0.1471
LATERAL DRAINAGE COLLECTED FROM LAYER 6	1.0545	0.4703	0.6992	1.0182	0.8345	1.0205
	1.0545	1.0545	0.3757	0.0475	0.0360	0.0253
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.013	0.003	0.393	0.149	0.097	1.236
	0.325	0.000	0.000	0.000	0.000	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.021	0.008	0.425	0.296	0.110	0.332
	0.460	0.000	0.000	0.000	0.000	0.002
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.035	0.016	0.023	0.034	0.027	0.035
	0.035	0.035	0.013	0.002	0.001	0.001
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.015	0.014	0.000	0.008	0.000
	0.000	0.000	0.015	0.001	0.001	0.001

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.20	95103.927	100.00
RUNOFF	0.419	1519.388	1.60
EVAPOTRANSPIRATION	19.590	71108.926	74.77
DRAINAGE COLLECTED FROM LAYER 3	0.0387	140.589	0.15
PERC./LEAKAGE THROUGH LAYER 4	6.729584	24427.859	25.69
AVG. HEAD ON TOP OF LAYER 4	0.1848		
DRAINAGE COLLECTED FROM LAYER 6	7.6907	27916.517	29.35
PERC./LEAKAGE THROUGH LAYER 8	0.000011	0.039	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0213		

Case 5

CHANGE IN WATER STORAGE	-1.538	-5581.531	-5.87
SOIL WATER AT START OF YEAR	708.453	2571629.165	
SOIL WATER AT END OF YEAR	706.916	2566047.634	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.51 0.13	3.06 7.61	2.77 2.61	6.60 3.80	0.23 0.40	3.79 2.03
RUNOFF	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
EVAPOTRANSPIRATION	1.235 0.506	1.621 4.434	2.951 3.510	3.437 3.651	0.348 0.540	2.326 1.067
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0000 0.0047	0.0004 0.0000	0.0045 0.0070	0.0000 0.0087	0.0094 0.0000	0.0140 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.2223 0.9309	0.3919 0.0154	0.9182 1.3344	0.0371 1.0935	1.5619 0.0155	1.8572 0.0102
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.2444 1.0545	0.1548 1.0545	1.0535 1.0205	0.1543 1.0545	0.7536 0.6382	1.0205 0.0557
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.002 0.263	0.026 0.000	0.255 0.407	0.000 0.490	0.526 0.000	0.810 0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.001 0.326	0.043 0.000	0.313 0.410	0.000 0.616	0.498 0.000	0.695 0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.008 0.035	0.006 0.035	0.035 0.035	0.005 0.035	0.025 0.028	0.035 0.002
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.003 0.000	0.008 0.000	0.000 0.000	0.009 0.000	0.013 0.012	0.000 0.001

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.74	122473.531	100.00
RUNOFF	0.000	0.000	0.00

Case 5

EVAPOTRANSPIRATION	25.626	93018.954	75.95
DRAINAGE COLLECTED FROM LAYER 3	0.0489	177.415	0.14
PERC./LEAKAGE THROUGH LAYER 4	8.388433	30449.348	24.86
AVG. HEAD ON TOP OF LAYER 4	0.2319		
DRAINAGE COLLECTED FROM LAYER 6	8.4589	30705.243	25.07
PERC./LEAKAGE THROUGH LAYER 8	0.000012	0.042	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0234		
CHANGE IN WATER STORAGE	-0.393	-1428.122	-1.17
SOIL WATER AT START OF YEAR	706.916	2566047.634	
SOIL WATER AT END OF YEAR	706.522	2564619.512	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 4
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 3 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 4
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 8

MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.69	3.20	1.58	2.60	3.46	2.01
	2.79	1.18	8.51	0.14	2.97	1.29
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.923	0.588	2.616	2.722	3.114	2.527
	2.729	1.238	5.501	0.656	0.902	0.983
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.0000	0.0000	0.0050	0.0050	0.0000	0.0000
	0.0000	0.0000	0.0003	0.0087	0.0023	0.0015
PERCOLATION/LEAKAGE THROUGH LAYER 4	0.0342	0.1243	1.0929	0.7459	0.0187	0.0107
	0.0082	0.0064	0.4960	1.5712	0.7754	0.5668
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0422	0.0655	0.5711	1.0205	0.2734	0.0530
	0.0436	0.0310	0.2734	0.9349	1.0205	1.0407
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 4	0.000	0.001	0.282	0.292	0.000	0.000
	0.000	0.000	0.021	0.489	0.132	0.082
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 4	0.001	0.001	0.318	0.451	0.000	0.000
	0.000	0.000	0.038	0.487	0.241	0.124
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.001	0.002	0.019	0.035	0.009	0.002
	0.001	0.001	0.009	0.031	0.035	0.034

Case 5

STD. DEVIATION OF DAILY 0.001 0.002 0.016 0.000 0.014 0.001
 HEAD ON TOP OF LAYER 7 0.001 0.001 0.011 0.007 0.000 0.002

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.42	114052.114	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	25.499	92559.920	81.16
DRAINAGE COLLECTED FROM LAYER 3		0.0229	83.092 0.07
PERC./LEAKAGE THROUGH LAYER 4		5.450498	19784.875 17.35
AVG. HEAD ON TOP OF LAYER 4		0.1083	
DRAINAGE COLLECTED FROM LAYER 6		5.3697	19491.488 17.09
PERC./LEAKAGE THROUGH LAYER 8		0.000008	0.030 0.00
AVG. HEAD ON TOP OF LAYER 7		0.0149	
CHANGE IN WATER STORAGE		0.528	1917.585 1.68
SOIL WATER AT START OF YEAR		706.522	2564619.512
SOIL WATER AT END OF YEAR		707.050	2566537.098
SNOW WATER AT START OF YEAR		0.000	0.000 0.00
SNOW WATER AT END OF YEAR		0.000	0.000 0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002 0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	1.20	3.21	1.78	2.90	3.88	2.89
	1.12	3.59	3.65	3.37	1.45	1.89
STD. DEVIATIONS	1.01	1.38	1.21	1.86	2.03	1.83
	0.83	2.73	2.47	2.42	1.05	1.13
RUNOFF						
TOTALS	0.000	0.000	0.000	0.000	0.042	0.000
	0.000	0.000	0.000	0.017	0.000	0.000
STD. DEVIATIONS	0.000	0.000	0.000	0.000	0.132	0.000
	0.000	0.000	0.000	0.054	0.000	0.000
EVAPOTRANSPIRATION						
TOTALS	1.338	1.542	2.266	2.399	3.179	2.559
	1.236	2.745	2.834	2.020	0.986	1.155
STD. DEVIATIONS	0.542	0.560	0.702	1.049	1.308	1.559
	0.751	1.572	1.491	1.086	0.344	0.372
LATERAL DRAINAGE COLLECTED FROM LAYER 3						
TOTALS	0.0030	0.0006	0.0041	0.0021	0.0014	0.0048
	0.0028	0.0004	0.0018	0.0032	0.0057	0.0041

Case 5

STD. DEVIATIONS 0.0065 0.0015 0.0032 0.0038 0.0030 0.0074
 0.0038 0.0011 0.0031 0.0041 0.0078 0.0081

PERCOLATION/LEAKAGE THROUGH LAYER 4

TOTALS 0.6138 0.3210 0.8379 0.3815 0.4393 0.7157
 0.4387 0.1161 0.4613 0.6581 0.8731 0.7209

STD. DEVIATIONS 0.6891 0.3699 0.5446 0.5100 0.5334 0.9057
 0.5728 0.1828 0.5233 0.6230 0.8977 0.8011

LATERAL DRAINAGE COLLECTED FROM LAYER 6

TOTALS 0.6542 0.4324 0.6522 0.5693 0.5161 0.4939
 0.4677 0.4520 0.5164 0.5608 0.6617 0.6202

STD. DEVIATIONS 0.4633 0.3529 0.4027 0.4577 0.4268 0.4661
 0.4756 0.5188 0.3438 0.4243 0.3981 0.4754

PERCOLATION/LEAKAGE THROUGH LAYER 8

TOTALS 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

STD. DEVIATIONS 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 4

AVERAGES 0.1706 0.0366 0.2314 0.1214 0.0793 0.2771
 0.1549 0.0216 0.1063 0.1785 0.3291 0.2273

STD. DEVIATIONS 0.3667 0.0944 0.1786 0.2209 0.1655 0.4307
 0.2103 0.0637 0.1799 0.2309 0.4526 0.4517

DAILY AVERAGE HEAD ON TOP OF LAYER 7

AVERAGES 0.0214 0.0155 0.0214 0.0193 0.0169 0.0167
 0.0153 0.0148 0.0175 0.0184 0.0224 0.0203

STD. DEVIATIONS 0.0152 0.0128 0.0132 0.0155 0.0140 0.0158
 0.0156 0.0170 0.0116 0.0139 0.0135 0.0156

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	30.92 (7.046)	112219.0	100.00
RUNOFF	0.059 (0.1373)	213.92	0.191
EVAPOTRANSPIRATION	24.260 (4.1391)	88062.79	78.474
LATERAL DRAINAGE COLLECTED FROM LAYER 3	0.03396 (0.02412)	123.272	0.10985
PERCOLATION/LEAKAGE THROUGH LAYER 4	6.57749 (3.25088)	23875.781	21.27606
AVERAGE HEAD ON TOP OF LAYER 4	0.161 (0.115)		
LATERAL DRAINAGE COLLECTED FROM LAYER 6	6.59685 (2.90779)	23946.055	21.33868
PERCOLATION/LEAKAGE THROUGH LAYER 8	0.00001 (0.00000)	0.035	0.00003
AVERAGE HEAD ON TOP	0.018 (0.008)		

Case 5

OF LAYER 7

CHANGE IN WATER STORAGE -0.035 (2.6274) -127.07 -0.113

PEAK DAILY VALUES FOR YEARS 1 THROUGH 10 and their dates (DDYYYY)

	(INCHES)	(CU. FT.)		
PRECIPITATION	5.09	18476.29728	1290008	
RUNOFF	0.419	1519.38840	1290008	
DRAINAGE COLLECTED FROM LAYER 3		0.00108	3.91735	3280006
PERCOLATION/LEAKAGE THROUGH LAYER 4		0.100430	364.55167	3280006
AVERAGE HEAD ON TOP OF LAYER 4		1.874		
MAXIMUM HEAD ON TOP OF LAYER 4		3.334		
LOCATION OF MAXIMUM HEAD IN LAYER 3 (DISTANCE FROM DRAIN)		27.1 FEET		
DRAINAGE COLLECTED FROM LAYER 6		0.03402	123.47233	10001
PERCOLATION/LEAKAGE THROUGH LAYER 8		0.000000	0.00016	10001
AVERAGE HEAD ON TOP OF LAYER 7		0.035		
MAXIMUM HEAD ON TOP OF LAYER 7		0.069		
LOCATION OF MAXIMUM HEAD IN LAYER 6 (DISTANCE FROM DRAIN)		1.2 FEET		
SNOW WATER	1.95	7072.4948	3430003	
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.4570		
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.0580		

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER STORAGE AT END OF YEAR 10

LAYER	(INCHES)	(VOL/VOL)
1	2.2911	0.1909
2	676.2720	0.2920
3	7.0097	0.2921
4	0.4099	0.4270
5	9.6476	0.4187
6	0.0202	0.1043
7	0.0000	0.0000
8	11.4000	0.4750
SNOW WATER	0.000	

Case 6

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**                                     **
**                                     **
**      HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE      **
**      HELP MODEL VERSION 3.07 (1 November 1997)          **
**      DEVELOPED BY ENVIRONMENTAL LABORATORY              **
**      USAE WATERWAYS EXPERIMENT STATION                 **
**      FOR USEPA RISK REDUCTION ENGINEERING LABORATORY    **
**                                     **
**                                     **
*****
*****
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PRECIPITATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather1.dat
TEMPERATURE DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather2.dat
SOLAR RADIATION DATA FILE: C:\WHI\UNSAT22\data\P922.VHP_weather3.dat
EVAPOTRANSPIRATION DATA: C:\WHI\UNSAT22\data\P922.VHP_weather4.dat
SOIL AND DESIGN DATA FILE: C:\WHI\UNSAT22\data\P922.VHP\I_386429.inp
OUTPUT DATA FILE: C:\WHI\UNSAT22\data\P922.VHP\O_386429.prt

TIME: 10:49 DATE: 8/21/2014

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*****
TITLE: Case 6
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NOTE: INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER WERE
COMPUTED AS NEARLY STEADY-STATE VALUES BY THE PROGRAM.

LAYER 1

TYPE 1 - VERTICAL PERCOLATION LAYER MATERIAL TEXTURE NUMBER 130

THICKNESS = 60.96 CM
POROSITY = 0.4570 VOL/VOL
FIELD CAPACITY = 0.1310 VOL/VOL
WILTING POINT = 0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2418 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 2

TYPE 4 - FLEXIBLE MEMBRANE LINER MATERIAL TEXTURE NUMBER 236

THICKNESS = 0.10 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.400000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 3

TYPE 3 - BARRIER SOIL LINER MATERIAL TEXTURE NUMBER 16

THICKNESS = 45.72 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL

Case 6

INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-06 CM/SEC

LAYER 4

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 130

THICKNESS = 30.48 CM
POROSITY = 0.4570 VOL/VOL
FIELD CAPACITY = 0.1310 VOL/VOL
WILTING POINT = 0.0580 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.1310 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC

LAYER 5

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 18

THICKNESS = 5882.64 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2920 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000224000E-02 CM/SEC

LAYER 6

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 201

THICKNESS = 60.96 CM
POROSITY = 0.6710 VOL/VOL
FIELD CAPACITY = 0.2920 VOL/VOL
WILTING POINT = 0.0770 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.2920 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-02 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 7

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 16

THICKNESS = 2.44 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4270 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

LAYER 8

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 230

THICKNESS = 58.52 CM
POROSITY = 0.4270 VOL/VOL
FIELD CAPACITY = 0.4180 VOL/VOL
WILTING POINT = 0.3670 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4106 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-05 CM/SEC

Case 6

LAYER 9

TYPE 2 - LATERAL DRAINAGE LAYER
MATERIAL TEXTURE NUMBER 226
THICKNESS = 0.48 CM
POROSITY = 0.8500 VOL/VOL
FIELD CAPACITY = 0.0100 VOL/VOL
WILTING POINT = 0.0050 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0102 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.900000000000 CM/SEC
SLOPE = 2.50 PERCENT
DRAINAGE LENGTH = 75.0 METERS

LAYER 10

TYPE 4 - FLEXIBLE MEMBRANE LINER
MATERIAL TEXTURE NUMBER 235
THICKNESS = 0.15 CM
POROSITY = 0.0000 VOL/VOL
FIELD CAPACITY = 0.0000 VOL/VOL
WILTING POINT = 0.0000 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.0000 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.200000000000E-12 CM/SEC
FML PINHOLE DENSITY = 1.24 HOLES/HECTARE
FML INSTALLATION DEFECTS = 2.47 HOLES/HECTARE
FML PLACEMENT QUALITY = 3 - GOOD

LAYER 11

TYPE 3 - BARRIER SOIL LINER
MATERIAL TEXTURE NUMBER 15
THICKNESS = 60.96 CM
POROSITY = 0.4750 VOL/VOL
FIELD CAPACITY = 0.3780 VOL/VOL
WILTING POINT = 0.2650 VOL/VOL
INITIAL SOIL WATER CONTENT = 0.4750 VOL/VOL
EFFECTIVE SAT. HYD. COND. = 0.100000000000E-06 CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
SOIL DATA BASE USING SOIL TEXTURE #** WITH A
GOOD STAND OF GRASS, A SURFACE SLOPE OF 4.%,
AND A SLOPE LENGTH OF 122. METERS.

SCS RUNOFF CURVE NUMBER = 0.00
FRACTION OF AREA ALLOWING RUNOFF = 100.0 PERCENT
AREA PROJECTED ON HORIZONTAL PLANE = 0.4047 HECTARES
EVAPORATIVE ZONE DEPTH = 55.9 CM
INITIAL WATER IN EVAPORATIVE ZONE = 12.416 CM
UPPER LIMIT OF EVAPORATIVE STORAGE = 25.537 CM
LOWER LIMIT OF EVAPORATIVE STORAGE = 3.241 CM
INITIAL SNOW WATER = 0.000 CM
INITIAL WATER IN LAYER MATERIALS = 1827.816 CM
TOTAL INITIAL WATER = 1827.816 CM
TOTAL SUBSURFACE INFLOW = 0.00 MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
Austin TX

STATION LATITUDE = 30.31 DEGREES
MAXIMUM LEAF AREA INDEX = 4.50
START OF GROWING SEASON (JULIAN DATE) = 44
END OF GROWING SEASON (JULIAN DATE) = 348

Case 6

EVAPORATIVE ZONE DEPTH = 22.0 INCHES
 AVERAGE ANNUAL WIND SPEED = 9.30 MPH
 AVERAGE 1ST QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 2ND QUARTER RELATIVE HUMIDITY = 70.00 %
 AVERAGE 3RD QUARTER RELATIVE HUMIDITY = 66.00 %
 AVERAGE 4TH QUARTER RELATIVE HUMIDITY = 67.00 %

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY PRECIPITATION (INCHES)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
1.60	2.49	1.68	3.11	4.19	3.06
1.89	2.24	3.60	3.38	2.20	2.06

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES FAHRENHEIT)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
49.10	53.20	60.50	68.70	74.90	81.60
84.70	84.50	79.20	69.80	58.70	52.10

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR Austin TX
AND STATION LATITUDE = 29.88 DEGREES

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 1

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.65	2.56	0.82	0.03	1.74	0.00
	0.45	4.41	2.37	5.47	0.62	3.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.766	1.457	2.286	3.161	1.732	0.008
	0.450	4.390	2.133	2.397	1.362	1.848
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0064	0.0039	0.0049	0.0033	0.0031	0.0017
	0.0012	0.0011	0.0008	0.0008	0.0006	0.0004
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Case 6

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	6.701	6.881	7.285	5.040	2.000	2.000
	2.000	2.000	2.000	2.003	2.899	5.846
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.075	0.051	0.268	2.474	0.000	0.000
	0.000	0.000	0.000	0.012	0.335	1.998
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 1

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	22.52	81745.818	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	21.992	79827.467	97.65	
PERC./LEAKAGE THROUGH LAYER 3		0.001417	5.143	0.01
AVG. HEAD ON TOP OF LAYER 2	3.8879			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001416	5.142	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0282	102.356	0.13
PERC./LEAKAGE THROUGH LAYER 11		0.000003	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0001			
CHANGE IN WATER STORAGE		0.500	1815.988	2.22
SOIL WATER AT START OF YEAR		719.612	2612136.339	
SOIL WATER AT END OF YEAR		720.113	2613952.327	
SNOW WATER AT START OF YEAR		0.000	0.000	0.00
SNOW WATER AT END OF YEAR		0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

Case 6

MONTHLY TOTALS (IN INCHES) FOR YEAR 2

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.00 0.26	6.11 8.15	2.35 6.72	3.42 4.76	3.62 2.03	2.33 1.05
RUNOFF	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
EVAPOTRANSPIRATION	0.706 0.233	2.384 4.152	2.974 6.018	5.007 3.061	7.251 1.068	3.645 0.843
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002 0.0001	0.0003 0.0001	0.0005 0.0001	0.0005 0.0004	0.0003 0.0005	0.0001 0.0006
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002 0.0001	0.0003 0.0001	0.0005 0.0001	0.0005 0.0004	0.0003 0.0005	0.0001 0.0006
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0004 0.0003	0.0003 0.0002	0.0004 0.0002	0.0004 0.0003	0.0003 0.0003	0.0004 0.0004
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000	0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	8.197 2.000	9.362 2.640	18.259 4.732	15.896 12.595	8.359 16.792	2.212 20.246
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.072 0.000	2.705 1.664	0.443 2.588	0.998 4.506	2.787 0.524	0.606 0.835
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000	0.000 0.000

ANNUAL TOTALS FOR YEAR 2

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.80	148100.772	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	37.340	135541.642	91.52
PERC./LEAKAGE THROUGH LAYER 3	0.003548	12.660	0.01
AVG. HEAD ON TOP OF LAYER 2	10.1075		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003546	12.670	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		

Case 6

DRAINAGE COLLECTED FROM LAYER 9	0.0039	14.224	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	3.456	12544.900	8.47
SOIL WATER AT START OF YEAR	720.113	2613952.327	
SOIL WATER AT END OF YEAR	723.569	2626497.227	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 3

	JAN	JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.36	3.57	0.83	1.69	5.59	4.55	
	1.68	2.44	0.38	1.03	0.61	3.14	
RUNOFF	0.000	1.101	0.000	0.000	0.000	0.000	
	0.000	0.000	0.000	0.000	0.000	0.000	
EVAPOTRANSPIRATION	0.851	1.588	1.110	5.968	6.263	7.300	
	1.683	2.440	0.380	1.030	0.384	0.728	
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0006	0.0006	0.0006	0.0005	0.0001	0.0001	
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0006	0.0006	0.0006	0.0005	0.0001	0.0001	
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0003	0.0003	0.0006	0.0003	0.0005	0.0004	
	0.0003	0.0002	0.0002	0.0002	0.0002	0.0001	
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	19.350	21.034	21.192	17.117	3.894	3.607
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.344	2.227	0.546	3.234	2.560	1.018
	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 3

	INCHES	CU. FEET	PERCENT		
PRECIPITATION	25.87	93906.053	100.00		
RUNOFF	1.101	3998.259	4.26		
EVAPOTRANSPIRATION		29.723	107892.851	114.89	
PERC./LEAKAGE THROUGH LAYER 3		0.002851	10.350	0.01	
AVG. HEAD ON TOP OF LAYER 2		8.1827			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00	
PERC./LEAKAGE THROUGH LAYER 7		0.002856	10.367	0.01	
AVG. HEAD ON TOP OF LAYER 7		0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0037	13.297	0.01	
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00	
AVG. HEAD ON TOP OF LAYER 10		0.0000			
CHANGE IN WATER STORAGE		-4.958	-17998.362	-19.17	
SOIL WATER AT START OF YEAR		723.569	2626497.227		
SOIL WATER AT END OF YEAR		718.610	2608498.865		
SNOW WATER AT START OF YEAR		0.000	0.000	0.00	
SNOW WATER AT END OF YEAR		0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11
 MONTHLY TOTALS (IN INCHES) FOR YEAR 4

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	2.85	3.06	1.65	3.84	3.05	1.18
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

EVAPOTRANSPIRATION	1.387	1.943	2.499	5.071	6.187	1.169
	1.771	0.702	3.341	2.339	0.950	1.002
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0002	0.0003	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0002	0.0003	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.651	7.198	10.989	9.060	3.832	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.810	2.419	0.115	1.897	1.736	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 4

	INCHES	CU. FEET	PERCENT
PRECIPITATION	28.09	101964.478	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	28.360	102945.652	100.96
PERC./LEAKAGE THROUGH LAYER 3	0.001447	5.253	0.01
AVG. HEAD ON TOP OF LAYER 2	3.9774		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001447	5.251	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0016	5.987	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-0.272	-987.169	-0.97
SOIL WATER AT START OF YEAR	718.610	2608498.865	

Case 6

SOIL WATER AT END OF YEAR	718.338	2607511.696		
SNOW WATER AT START OF YEAR	0.000	0.000	0.00	
SNOW WATER AT END OF YEAR	0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 5

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.42	2.70	1.93	2.42	3.77	2.00
	0.84	1.25	3.04	1.13	1.04	0.78
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.785	2.041	2.590	4.420	3.770	1.294
	1.396	1.400	3.040	0.987	0.924	0.814
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	1.999	1.999	2.072	2.235	2.000	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.068	0.189	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 5

Case 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	22.32	81019.834	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	24.460	88788.393	109.59
PERC./LEAKAGE THROUGH LAYER 3		0.000774	2.810 0.00
AVG. HEAD ON TOP OF LAYER 2	2.0253		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.000775	2.812 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0009	3.127 0.00
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-2.141	-7771.694	-9.59
SOIL WATER AT START OF YEAR	718.338	2607511.696	
SOIL WATER AT END OF YEAR	716.197	2599740.002	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.84	3.09	4.52	0.95	5.99	3.95
	1.57	4.88	3.80	6.63	2.35	0.40
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.011	0.000	0.000
EVAPOTRANSPIRATION	1.307	2.049	3.110	5.159	3.558	6.350
	1.602	4.222	4.453	2.253	1.368	0.845
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0003	0.0003

Case 6

LATERAL DRAINAGE COLLECTED	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	2.000	3.426	4.511	4.469	2.000	2.026
TOP OF LAYER 2	2.000	2.000	2.000	6.884	8.744	11.236
STD. DEVIATION OF DAILY	0.000	0.921	0.090	1.754	0.000	0.076
HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	2.503	0.036	0.651
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	40.97	148717.858	100.00
RUNOFF	0.011	40.894	0.03
EVAPOTRANSPIRATION	36.276	131679.898	88.54
PERC./LEAKAGE THROUGH LAYER 3	0.001555	5.645	0.00
AVG. HEAD ON TOP OF LAYER 2	4.2745		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001555	5.645	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0011	3.855	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	4.681	16993.205	11.43
SOIL WATER AT START OF YEAR	716.197	2599740.002	
SOIL WATER AT END OF YEAR	720.879	2616733.207	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)

Case 6

LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 7

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.24	0.57	0.63	4.49	4.20	6.40
	0.64	4.20	4.71	6.58	0.00	3.56
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.290	0.642	1.731	5.437	6.497	4.315
	3.155	4.181	3.700	3.239	1.027	1.183
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0004	0.0003	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0003	0.0003	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0002	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002
	0.0002	0.0001	0.0002	0.0001	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	11.833	11.603	11.163	7.306	3.276	2.006
	2.205	2.000	2.000	2.507	7.054	8.621
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.054	0.067	0.170	2.544	1.064	0.034
	0.439	0.000	0.000	0.952	0.580	1.205
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 7

INCHES	CU. FEET	PERCENT
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Case 6

PRECIPITATION	37.22	135105.655	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	36.396	132113.263	97.79	
PERC./LEAKAGE THROUGH LAYER 3	0.002122	7.704	0.01	
AVG. HEAD ON TOP OF LAYER 2	5.9645			
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00	
PERC./LEAKAGE THROUGH LAYER 7	0.002122	7.704	0.01	
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9	0.0022	8.032	0.01	
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00	
AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE	0.822	2984.353	2.21	
SOIL WATER AT START OF YEAR	720.879	2616733.207		
SOIL WATER AT END OF YEAR	721.701	2619717.560		
SNOW WATER AT START OF YEAR	0.000	0.000	0.00	
SNOW WATER AT END OF YEAR	0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 8

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	4.17	0.68	2.95	7.17	2.71
	1.05	0.80	1.04	1.46	1.78	1.94
RUNOFF	0.000	0.000	0.000	0.000	0.195	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.426	1.406	2.461	6.312	7.182	4.874
	1.050	0.800	0.896	0.743	0.910	1.033
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0004	0.0004	0.0005	0.0003	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0004	0.0004	0.0005	0.0003	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0002	0.0003	0.0003	0.0003	0.0003
	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001

Case 6

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
 LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	11.882	12.807	17.958	9.854	9.345	2.607
TOP OF LAYER 2	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY	0.384	1.843	0.787	4.189	3.792	1.320
HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 8

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.20	95103.927	100.00
RUNOFF	0.195	708.962	0.75
EVAPOTRANSPIRATION	29.094	105607.157	111.04
PERC./LEAKAGE THROUGH LAYER 3		0.002268	8.232 0.01
AVG. HEAD ON TOP OF LAYER 2	6.3709		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.002268	8.232 0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0025	9.215 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000003	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.091	-11221.415	-11.80
SOIL WATER AT START OF YEAR	721.701	2619717.560	
SOIL WATER AT END OF YEAR	718.610	2608496.146	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)

Case 6

LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 9

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.51	3.06	2.77	6.60	0.23	3.79
	0.13	7.61	2.81	3.80	0.40	2.03
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.156	1.667	2.835	5.595	4.399	3.585
	0.490	4.371	6.031	3.003	0.930	0.899
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	1.999	3.688	6.572	6.261	4.836	2.000
	2.000	2.116	3.098	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	1.551	0.188	1.808	3.346	0.000
	0.000	0.364	1.089	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 9

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.74	122473.531	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	34.961	126905.089	103.62
PERC./LEAKAGE THROUGH LAYER 3	0.001186	4.305	0.00

Case 6

AVG. HEAD ON TOP OF LAYER 2	3.2140		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001186	4.305	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0012	4.530	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.222	-4436.095	-3.62
SOIL WATER AT START OF YEAR	718.610	2608496.146	
SOIL WATER AT END OF YEAR	717.388	2604060.050	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 10

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.69	3.20	1.58	2.60	3.46	2.01
	2.79	1.18	8.51	0.14	2.97	1.29
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.364	0.810	2.701	5.227	3.126	2.720
	2.743	1.235	5.567	2.016	1.016	0.892
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

Case 6

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	2.000	5.050	4.023	2.000	2.000
	2.000	2.000	2.127	4.332	4.013	3.921
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	1.084	1.875	0.000	0.000
	0.000	0.000	0.322	0.556	0.158	0.003
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 10

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.42	114052.114	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	29.415	106774.756	93.62
PERC./LEAKAGE THROUGH LAYER 3	0.001103	4.004	0.00
AVG. HEAD ON TOP OF LAYER 2	2.9553		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001102	4.000	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0010	3.479	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	2.004	7273.871	6.38
SOIL WATER AT START OF YEAR	717.388	2604060.050	
SOIL WATER AT END OF YEAR	719.391	2611333.921	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

Case 6

MONTHLY TOTALS (IN INCHES) FOR YEAR 11

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.69	1.89	2.95	4.16	1.97	3.80
	2.10	3.79	3.06	3.14	0.70	3.90
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.169	1.632	3.094	6.387	2.797	1.487
	4.292	3.911	2.793	2.135	0.964	0.881
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	4.088	4.606	5.038	4.108	2.031	2.000
	2.000	2.000	2.000	2.000	2.000	1.999
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.133	0.135	0.217	1.407	0.122	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 11

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.15	116701.956	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	31.541	114489.789	98.10
PERC./LEAKAGE THROUGH LAYER 3	0.001050	3.811	0.00
AVG. HEAD ON TOP OF LAYER 2	2.8225		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00

Case 6

PERC./LEAKAGE THROUGH LAYER 7	0.001051	3.815	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0012	4.395	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	0.608	2207.765	1.89
SOIL WATER AT START OF YEAR	719.391	2611333.921	
SOIL WATER AT END OF YEAR	720.000	2613541.687	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 12

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.39	1.56	2.18	4.56	5.35	9.42
	3.20	1.34	1.45	2.27	3.35	1.80
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.019
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.102	1.407	2.812	5.441	6.265	4.755
	8.729	1.495	1.092	2.085	1.209	0.952
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0003	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	5.329	6.754	6.776	6.814	3.377	2.072
	10.624	2.000	2.000	2.000	2.000	2.857
STD. DEVIATION OF DAILY	1.090	0.096	0.107	0.883	1.194	0.398

Case 6

HEAD ON TOP OF LAYER 2	4.216	0.000	0.000	0.000	0.000	0.954
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 12

	INCHES	CU. FEET	PERCENT		
PRECIPITATION	36.87	133835.183	100.00		
RUNOFF	0.019	69.844	0.05		
EVAPOTRANSPIRATION	37.344	135556.514	101.29		
PERC./LEAKAGE THROUGH LAYER 3		0.001597	5.795	0.00	
AVG. HEAD ON TOP OF LAYER 2	4.3835				
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00	
PERC./LEAKAGE THROUGH LAYER 7		0.001597	5.795	0.00	
AVG. HEAD ON TOP OF LAYER 7	0.0000				
DRAINAGE COLLECTED FROM LAYER 9		0.0015	5.355	0.00	
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00	
AVG. HEAD ON TOP OF LAYER 10	0.0000				
CHANGE IN WATER STORAGE		-0.495	-1796.537	-1.34	
SOIL WATER AT START OF YEAR		720.000	2613541.687		
SOIL WATER AT END OF YEAR		719.505	2611745.150		
SNOW WATER AT START OF YEAR		0.000	0.000	0.00	
SNOW WATER AT END OF YEAR		0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 13

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

Case 6

PRECIPITATION	2.47	1.76	1.54	1.39	4.57	6.70
	1.53	0.07	2.18	2.65	1.55	0.52
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.765	1.859	1.640	5.428	3.698	7.525
	1.576	0.070	2.098	1.160	0.835	0.937
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	5.324	6.550	7.766	5.684	2.000	2.918
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.312	0.389	0.258	2.180	0.000	1.089
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 13

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.93	97753.769	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	28.591	103784.575	106.17
PERC./LEAKAGE THROUGH LAYER 3	0.001287	4.671	0.00
AVG. HEAD ON TOP OF LAYER 2	3.5199		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001287	4.671	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0014	5.045	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00

Case 6

AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE	-1.663	-6035.858	-6.17	
SOIL WATER AT START OF YEAR	719.505	2611745.150		
SOIL WATER AT END OF YEAR	717.842	2605709.292		
SNOW WATER AT START OF YEAR	0.000	0.000	0.00	
SNOW WATER AT END OF YEAR	0.000	0.000	0.00	
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00	

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 14

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.89	2.96	0.73	2.65	3.30	2.95
	0.00	1.87	0.82	2.84	3.36	1.96
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.101	1.283	2.103	4.573	2.159	2.685
	1.445	1.870	0.820	1.250	1.212	1.213
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	1.999	1.999	2.557	2.947	2.000	2.000
	2.000	2.000	2.000	2.000	2.014	6.022
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.558	0.608	0.000	0.000
	0.000	0.000	0.000	0.000	0.079	2.160
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 14

	INCHES	CU. FEET	PERCENT
PRECIPITATION	24.33	88315.975	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	21.714	78819.374	89.25
PERC./LEAKAGE THROUGH LAYER 3		0.000929	3.371 0.00
AVG. HEAD ON TOP OF LAYER 2	2.4614		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.000929	3.371 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0009	3.178 0.00
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	2.615	9493.415	10.75
SOIL WATER AT START OF YEAR	717.842	2605709.292	
SOIL WATER AT END OF YEAR	720.457	2615202.708	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 15

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.79 2.22 0.83 4.07 8.34 2.21	3.64 0.11 4.65 0.17 1.38 5.66				
RUNOFF	0.000 0.000 0.000 0.000 0.000 0.000	0.000 0.000 0.000 0.000 0.000 0.000				
EVAPOTRANSPIRATION	1.290 1.897 1.324 6.063 7.134 5.199	3.677 0.110 1.497 1.572 0.572 1.133				

Case 6

PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0003	0.0003	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0003	0.0003	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0002	0.0002	0.0002
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	9.038	9.229	9.246	6.478	2.523	2.000
	2.000	2.000	2.313	5.298	5.666	7.473
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.124	0.024	0.034	2.346	0.547	0.000
	0.000	0.000	0.722	0.490	0.000	3.114
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 15

	INCHES	CU. FEET	PERCENT		
PRECIPITATION	34.07	123671.404	100.00		
RUNOFF	0.000	0.000	0.00		
EVAPOTRANSPIRATION	31.468	114225.830	92.36		
PERC./LEAKAGE THROUGH LAYER 3	0.001892	6.869	0.01		
AVG. HEAD ON TOP OF LAYER 2	5.2720				
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00		
PERC./LEAKAGE THROUGH LAYER 7	0.001892	6.869	0.01		
AVG. HEAD ON TOP OF LAYER 7	0.0000				
DRAINAGE COLLECTED FROM LAYER 9	0.0016	5.964	0.00		
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00		
AVG. HEAD ON TOP OF LAYER 10	0.0000				
CHANGE IN WATER STORAGE	2.600	9439.603	7.63		
SOIL WATER AT START OF YEAR	720.457	2615202.708			
SOIL WATER AT END OF YEAR	723.058	2624642.311			
SNOW WATER AT START OF YEAR	0.000	0.000	0.00		
SNOW WATER AT END OF YEAR	0.000	0.000	0.00		

Case 6

ANNUAL WATER BUDGET BALANCE 0.0000 -0.002 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 16

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.50	2.01	1.02	1.85	0.81	1.45
	2.57	1.68	3.46	3.02	1.80	3.03
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.209	1.319	1.748	6.536	2.462	1.382
	2.637	1.680	2.776	3.050	1.113	1.159
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0005	0.0005	0.0005	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0005	0.0005	0.0005	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0003	0.0004	0.0003	0.0003	0.0003
	0.0003	0.0002	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	17.295	18.100	18.476	11.524	2.429	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.539	1.684	0.611	3.629	0.959	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 16

Case 6

	INCHES	CU. FEET	PERCENT
PRECIPITATION	23.20	84214.164	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	27.071	98265.608	116.69
PERC./LEAKAGE THROUGH LAYER 3		0.002408	8.742 0.01
AVG. HEAD ON TOP OF LAYER 2	6.8185		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.002408	8.740 0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0026	9.614 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000003	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.874	-14061.066	-16.70
SOIL WATER AT START OF YEAR	723.058	2624642.311	
SOIL WATER AT END OF YEAR	719.184	2610581.245	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 17

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.54	2.81	0.67	2.06	4.74	0.08
	4.57	4.38	0.27	0.15	3.89	0.70
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.526	2.461	1.557	3.797	5.691	0.080
	2.979	5.967	0.274	0.147	0.813	1.158
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0002	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

Case 6

FROM LAYER 9 0.0001 0.0001 0.0001 0.0001 0.0001 0.0001

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	3.662	4.849	6.095	3.520	2.329	2.000
TOP OF LAYER 2	2.000	2.000	2.000	2.000	2.409	4.134
STD. DEVIATION OF DAILY	0.796	0.278	0.368	1.771	0.532	0.000
HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	0.645	0.210
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 17

	INCHES	CU. FEET	PERCENT
PRECIPITATION	25.86	93869.754	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	26.450	96009.932	102.28
PERC./LEAKAGE THROUGH LAYER 3		0.001142	4.146 0.00
AVG. HEAD ON TOP OF LAYER 2	3.0831		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001142	4.144 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0012	4.320 0.00
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-0.591	-2144.506	-2.28
SOIL WATER AT START OF YEAR	719.184	2610581.245	
SOIL WATER AT END OF YEAR	718.593	2608436.739	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)

Case 6

LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 18

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.45	6.39	1.46	2.44	1.58	3.26
	6.60	1.37	4.62	0.76	1.92	1.20
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.528	1.665	2.986	4.875	4.886	3.260
	6.600	1.370	3.546	1.706	0.980	0.765
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0003	0.0005	0.0004	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0003	0.0005	0.0004	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0003	0.0002
	0.0002	0.0001	0.0002	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	4.642	12.000	16.710	13.195	4.452	2.000
	2.404	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.072	4.233	0.690	1.742	2.786	0.000
	0.624	0.000	0.000	0.002	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 18

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.05	116338.964	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	33.167	120393.878	103.49

Case 6

PERC./LEAKAGE THROUGH LAYER 3	0.001934	7.022	0.01
AVG. HEAD ON TOP OF LAYER 2	5.4502		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001935	7.024	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0018	6.659	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.119	-4061.580	-3.49
SOIL WATER AT START OF YEAR	718.593	2608436.739	
SOIL WATER AT END OF YEAR	717.474	2604375.159	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 19

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.83	3.34	1.75	1.47	2.04	0.58
	2.03	2.25	1.40	0.66	2.57	0.01
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.247	1.874	2.134	3.496	2.180	0.580
	2.006	2.274	1.367	0.693	0.849	0.785
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

Case 6

AVERAGE DAILY HEAD ON TOP OF LAYER 2 2.000 2.000 2.413 2.692 2.000 2.000
2.000 2.000 2.000 2.000 2.000 2.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2 0.000 0.000 0.382 0.640 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000
0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 19

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.93	68714.402	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	19.485	70729.112	102.93
PERC./LEAKAGE THROUGH LAYER 3		0.000798	2.895 0.00
AVG. HEAD ON TOP OF LAYER 2	2.0919		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.000798	2.895 0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9		0.0009	3.440 0.01
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009 0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE		-0.556 -2018.158	-2.94
SOIL WATER AT START OF YEAR		717.474	2604375.159
SOIL WATER AT END OF YEAR		716.918	2602357.001
SNOW WATER AT START OF YEAR		0.000	0.000 0.00
SNOW WATER AT END OF YEAR		0.000	0.000 0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.001 0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 20

Case 6

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.68	0.42	1.80	3.35	4.36	1.32
	0.56	1.46	6.19	2.35	1.02	1.69
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.390	0.648	1.520	4.631	4.353	1.333
	0.560	1.409	4.232	3.032	1.123	1.521
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	1.999	1.999	2.000	2.000	2.000
	2.000	2.000	2.257	3.957	2.629	2.089
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.477	0.452	0.208	0.096
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 20

	INCHES	CU. FEET	PERCENT
PRECIPITATION	26.20	95103.927	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	25.753	93483.097	98.30
PERC./LEAKAGE THROUGH LAYER 3		0.000854	3.101 0.00
AVG. HEAD ON TOP OF LAYER 2	2.2441		
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000 0.00
PERC./LEAKAGE THROUGH LAYER 7		0.000854	3.101 0.00

Case 6

AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0008	2.897	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	0.446	1617.926	1.70
SOIL WATER AT START OF YEAR	716.918	2602357.001	
SOIL WATER AT END OF YEAR	717.364	2603974.927	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 21

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.29	0.99	2.08	8.53	5.62	0.70
	3.46	3.30	4.64	3.35	0.85	3.51
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.634	1.262	2.427	5.317	7.409	2.553
	2.525	4.218	3.667	2.793	0.919	0.970
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0000	0.0001	0.0001	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	2.000	2.000	4.684	10.888	2.510
	2.000	2.000	2.000	2.158	4.176	
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	2.428	3.517	1.034
	0.000	0.000	0.000	0.001	0.222	1.002

Case 6

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 21

	INCHES	CU. FEET	PERCENT
PRECIPITATION	38.32	139098.568	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	35.693	129563.421	93.15
PERC./LEAKAGE THROUGH LAYER 3	0.001186	4.304	0.00
AVG. HEAD ON TOP OF LAYER 2	3.2013		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001185	4.301	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0011	3.945	0.00
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	2.626	9531.196	6.85
SOIL WATER AT START OF YEAR	717.364	2603974.927	
SOIL WATER AT END OF YEAR	719.990	2613506.123	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 22

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

Case 6

PRECIPITATION	1.31	1.42	0.65	2.58	1.28	0.00
	2.65	1.83	5.20	0.74	0.40	0.06
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.728	1.414	1.238	5.594	1.282	0.000
	2.229	2.251	2.744	2.591	0.912	0.117
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0002	0.0002	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	6.003	7.542	7.710	6.009	2.000	2.000
	1.999	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.705	0.140	0.064	2.212	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 22

	INCHES	CU. FEET	PERCENT
PRECIPITATION	18.12	65774.166	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	22.101	80226.695	121.97
PERC./LEAKAGE THROUGH LAYER 3	0.001314	4.768	0.01
AVG. HEAD ON TOP OF LAYER 2	3.6052		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001314	4.771	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0014	5.174	0.01

Case 6

PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.983	-14457.710	-21.98
SOIL WATER AT START OF YEAR	719.990	2613506.123	
SOIL WATER AT END OF YEAR	716.007	2599048.413	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.001	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 23

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.22	3.41	2.97	5.31	7.63	3.88
	5.01	0.00	1.28	0.85	5.34	2.15
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	0.659	1.944	3.278	5.325	5.760	7.453
	5.046	0.000	1.280	0.850	1.155	1.051
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0001	0.0000	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.000	2.000	2.000	2.000	2.218	5.624
	2.000	2.000	2.000	2.000	3.357	9.195
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.000	0.000	0.000	0.000	0.519	1.744
	0.000	0.000	0.000	0.000	1.873	1.354
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 23

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	39.05	141748.410	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	33.800	122691.984	86.56	
PERC./LEAKAGE THROUGH LAYER 3		0.001125	4.085	0.00
AVG. HEAD ON TOP OF LAYER 2	3.0327			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001126	4.086	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0009	3.386	0.00
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE		5.249	19053.034	13.44
SOIL WATER AT START OF YEAR		716.007	2599048.413	
SOIL WATER AT END OF YEAR		721.256	2618101.446	
SNOW WATER AT START OF YEAR		0.000	0.000	0.00
SNOW WATER AT END OF YEAR		0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 24

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.17	0.58	1.58	4.22	6.64	2.26
	1.30	1.70	1.57	2.09	3.32	2.15
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

EVAPOTRANSPIRATION	0.966	0.397	2.025	5.702	7.521	4.121
	0.919	2.081	1.570	0.923	1.263	1.236
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0004	0.0003	0.0003	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0004	0.0003	0.0003	0.0002	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	11.786	11.953	11.756	6.919	5.427	2.995
	2.000	2.000	2.000	2.000	2.363	4.598
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.108	0.030	0.234	3.639	2.307	1.265
	0.000	0.000	0.000	0.000	0.530	1.503
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 24

	INCHES	CU. FEET	PERCENT
PRECIPITATION	27.58	100113.218	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	28.723	104263.391	104.15
PERC./LEAKAGE THROUGH LAYER 3	0.001967	7.139	0.01
AVG. HEAD ON TOP OF LAYER 2	5.4830		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001965	7.132	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0020	7.360	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.145	-4157.541	-4.15
SOIL WATER AT START OF YEAR	721.256	2618101.446	
SOIL WATER AT END OF YEAR	720.110	2613943.905	

Case 6

SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 25

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.25	3.25	0.79	2.87	4.75	2.48
	4.21	1.75	3.02	0.89	2.33	2.37
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.392	1.699	1.071	5.377	6.020	2.232
	5.796	1.635	2.112	1.999	0.933	0.967
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0002	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0002	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0001	0.0001	0.0002	0.0002	0.0003	0.0002
	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	8.191	12.750	14.655	10.676	3.356	2.000
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.232	2.681	0.245	2.218	1.934	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

ANNUAL TOTALS FOR YEAR 25

	INCHES	CU. FEET	PERCENT
PRECIPITATION	29.96	108752.430	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	31.234	113378.407	104.25
PERC./LEAKAGE THROUGH LAYER 3	0.001884	6.837	0.01
AVG. HEAD ON TOP OF LAYER 2	5.3021		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.001885	6.842	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0019	7.067	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.276	-4633.051	-4.26
SOIL WATER AT START OF YEAR	720.110	2613943.905	
SOIL WATER AT END OF YEAR	718.834	2609310.853	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	2.174	3.052	3.369	2.161	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.306	0.140	0.108	0.417	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

Case 6

ANNUAL TOTALS FOR YEAR 26

	INCHES	CU. FEET	PERCENT	
PRECIPITATION	34.07	123671.404	100.00	
RUNOFF	0.000	0.000	0.00	
EVAPOTRANSPIRATION	28.806	104563.493	84.55	
PERC./LEAKAGE THROUGH LAYER 3		0.001594	5.786	0.00
AVG. HEAD ON TOP OF LAYER 2	4.3955			
DRAINAGE COLLECTED FROM LAYER 6		0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7		0.001590	5.770	0.00
AVG. HEAD ON TOP OF LAYER 7	0.0000			
DRAINAGE COLLECTED FROM LAYER 9		0.0011	3.950	0.00
PERC./LEAKAGE THROUGH LAYER 11		0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000			
CHANGE IN WATER STORAGE		5.263	19103.955	15.45
SOIL WATER AT START OF YEAR		718.834	2609310.853	
SOIL WATER AT END OF YEAR		724.097	2628414.808	
SNOW WATER AT START OF YEAR		0.000	0.000	0.00
SNOW WATER AT END OF YEAR		0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE		0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 27

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	1.15	1.94	0.59	1.39	4.74	3.79
	1.20	7.30	0.74	6.22	4.05	0.04
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.962	1.347	1.013	5.242	7.439	4.719
	1.200	3.842	4.198	1.786	1.255	0.872
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0006	0.0006	0.0006	0.0004	0.0003	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0004	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Case 6

PERCOLATION/LEAKAGE THROUGH 0.0006 0.0006 0.0006 0.0004 0.0003 0.0001
LAYER 7 0.0001 0.0001 0.0001 0.0001 0.0004 0.0005

LATERAL DRAINAGE COLLECTED 0.0003 0.0003 0.0003 0.0005 0.0003 0.0004
FROM LAYER 9 0.0003 0.0002 0.0002 0.0002 0.0002 0.0003

PERCOLATION/LEAKAGE THROUGH 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000
LAYER 11 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON 20.224 21.049 20.552 15.159 8.309 2.142
TOP OF LAYER 2 2.000 2.000 2.118 2.283 14.063 18.128

STD. DEVIATION OF DAILY 0.570 1.057 0.458 3.718 1.215 0.401
HEAD ON TOP OF LAYER 2 0.000 0.000 0.270 0.628 3.276 0.343

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 7 0.000 0.000 0.000 0.000 0.000 0.000

AVERAGE DAILY HEAD ON 0.000 0.000 0.000 0.000 0.000 0.000
TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

STD. DEVIATION OF DAILY 0.000 0.000 0.000 0.000 0.000 0.000
HEAD ON TOP OF LAYER 10 0.000 0.000 0.000 0.000 0.000 0.000

ANNUAL TOTALS FOR YEAR 27

	INCHES	CU. FEET	PERCENT
PRECIPITATION	33.15	120331.877	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	34.875	126593.159	105.20
PERC./LEAKAGE THROUGH LAYER 3	0.003710	13.467	0.01
AVG. HEAD ON TOP OF LAYER 2	10.6672		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003711	13.470	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0034	12.265	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.728	-6273.555	-5.21
SOIL WATER AT START OF YEAR	724.097	2628414.808	
SOIL WATER AT END OF YEAR	722.369	2622141.253	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

Case 6

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 28

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	2.62	0.67	2.47	1.67	2.99	0.47
	0.47	5.39	4.00	4.98	4.30	1.75
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.002	0.000	0.000
EVAPOTRANSPIRATION	1.259	1.393	2.404	4.422	6.646	1.118
	0.510	4.832	4.093	3.368	1.907	1.003
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0005	0.0005	0.0006	0.0005	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0005	0.0005	0.0006	0.0005	0.0002	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0003
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0003	0.0003	0.0003	0.0005	0.0005	0.0003
	0.0003	0.0002	0.0002	0.0002	0.0002	0.0001
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	17.236	18.988	20.146	16.994	6.425	2.023
	2.000	2.000	2.000	2.234	5.020	8.447
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.450	0.441	0.837	1.862	2.963	0.084
	0.000	0.000	0.000	0.408	1.764	0.175
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 28

	INCHES	CU. FEET	PERCENT
PRECIPITATION	31.78	115358.886	100.00
RUNOFF	0.002	7.372	0.01
EVAPOTRANSPIRATION	32.956	119628.407	103.70

Case 6

PERC./LEAKAGE THROUGH LAYER 3	0.003033	11.008	0.01
AVG. HEAD ON TOP OF LAYER 2	8.6260		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003037	11.024	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0035	12.798	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000003	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-1.182	-4289.699	-3.72
SOIL WATER AT START OF YEAR	722.369	2622141.253	
SOIL WATER AT END OF YEAR	721.187	2617851.554	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 29

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION	0.87	2.16	3.83	1.40	1.36	9.35
	3.18	3.09	2.36	4.34	2.64	2.73
RUNOFF	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.514	1.273	3.685	5.368	2.970	4.418
	8.020	3.204	1.381	2.178	0.929	1.124
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0003	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0002	0.0001	0.0001	0.0001	0.0002	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0003	0.0003	0.0004	0.0003	0.0001	0.0001
	0.0002	0.0001	0.0001	0.0001	0.0002	0.0005
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002
	0.0002	0.0002	0.0002	0.0002	0.0001	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Case 6

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON	10.662	11.502	14.776	11.536	2.499	2.234
TOP OF LAYER 2	6.303	2.000	2.000	2.000	6.418	16.125
STD. DEVIATION OF DAILY	1.073	0.032	1.320	3.244	0.987	1.085
HEAD ON TOP OF LAYER 2	2.187	0.000	0.000	0.000	2.588	3.246
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON	0.000	0.000	0.000	0.000	0.000	0.000
TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY	0.000	0.000	0.000	0.000	0.000	0.000
HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 29

	INCHES	CU. FEET	PERCENT
PRECIPITATION	37.31	135432.348	100.00
RUNOFF	0.000	0.000	0.00
EVAPOTRANSPIRATION	36.066	130915.026	96.66
PERC./LEAKAGE THROUGH LAYER 3	0.002595	9.418	0.01
AVG. HEAD ON TOP OF LAYER 2	7.3378		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.002590	9.403	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		
DRAINAGE COLLECTED FROM LAYER 9	0.0024	8.693	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	1.242	4508.622	3.33
SOIL WATER AT START OF YEAR	721.187	2617851.554	
SOIL WATER AT END OF YEAR	722.429	2622360.176	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

HEAD #1: AVERAGE HEAD ON TOP OF LAYER 2
 DRAIN #1: LATERAL DRAINAGE FROM LAYER 1 (RECIRCULATION AND COLLECTION)
 LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 3
 HEAD #2: AVERAGE HEAD ON TOP OF LAYER 7
 DRAIN #2: LATERAL DRAINAGE FROM LAYER 6 (RECIRCULATION AND COLLECTION)
 LEAK #2: PERCOLATION OR LEAKAGE THROUGH LAYER 7
 HEAD #3: AVERAGE HEAD ON TOP OF LAYER 10
 DRAIN #3: LATERAL DRAINAGE FROM LAYER 9 (RECIRCULATION AND COLLECTION)
 LEAK #3: PERCOLATION OR LEAKAGE THROUGH LAYER 11

MONTHLY TOTALS (IN INCHES) FOR YEAR 30

Case 6

JAN/JUL FEB/AUG MAR/SEP APR/OCT MAY/NOV JUN/DEC

PRECIPITATION	1.42	2.35	1.86	5.85	7.21	1.03
	2.19	1.98	1.22	3.07	1.17	2.89
RUNOFF	0.000	0.000	0.000	0.000	0.427	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
EVAPOTRANSPIRATION	1.557	1.130	2.546	6.335	6.989	7.055
	1.915	2.390	1.217	2.068	1.009	1.023
PERCOLATION/LEAKAGE THROUGH LAYER 3	0.0005	0.0005	0.0006	0.0005	0.0006	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
PERCOLATION/LEAKAGE THROUGH LAYER 7	0.0005	0.0005	0.0006	0.0005	0.0006	0.0002
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LATERAL DRAINAGE COLLECTED FROM LAYER 9	0.0003	0.0002	0.0004	0.0003	0.0004	0.0005
	0.0004	0.0003	0.0002	0.0002	0.0002	0.0002
PERCOLATION/LEAKAGE THROUGH LAYER 11	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

MONTHLY SUMMARIES FOR DAILY HEADS (INCHES)

AVERAGE DAILY HEAD ON TOP OF LAYER 2	17.095	17.669	20.328	17.310	19.573	7.653
	2.000	2.000	2.000	2.000	2.000	2.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 2	0.470	1.885	0.996	1.838	2.792	4.819
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 7	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
AVERAGE DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATION OF DAILY HEAD ON TOP OF LAYER 10	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000

ANNUAL TOTALS FOR YEAR 30

	INCHES	CU. FEET	PERCENT
PRECIPITATION	32.24	117028.649	100.00
RUNOFF	0.427	1549.350	1.32
EVAPOTRANSPIRATION	35.233	127892.217	109.28
PERC./LEAKAGE THROUGH LAYER 3	0.003246	11.783	0.01
AVG. HEAD ON TOP OF LAYER 2	9.3022		
DRAINAGE COLLECTED FROM LAYER 6	0.0000	0.000	0.00
PERC./LEAKAGE THROUGH LAYER 7	0.003250	11.797	0.01
AVG. HEAD ON TOP OF LAYER 7	0.0000		

Case 6

DRAINAGE COLLECTED FROM LAYER 9	0.0036	12.945	0.01
PERC./LEAKAGE THROUGH LAYER 11	0.000002	0.009	0.00
AVG. HEAD ON TOP OF LAYER 10	0.0000		
CHANGE IN WATER STORAGE	-3.423	-12425.870	-10.62
SOIL WATER AT START OF YEAR	722.429	2622360.176	
SOIL WATER AT END OF YEAR	719.006	2609934.305	
SNOW WATER AT START OF YEAR	0.000	0.000	0.00
SNOW WATER AT END OF YEAR	0.000	0.000	0.00
ANNUAL WATER BUDGET BALANCE	0.0000	-0.002	0.00

AVERAGE MONTHLY VALUES IN INCHES FOR YEARS 1 THROUGH 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
--	---------	---------	---------	---------	---------	---------

PRECIPITATION

TOTALS	1.15	2.50	1.69	3.07	4.12	2.87
	2.10	2.84	3.09	2.84	2.07	2.03
STD. DEVIATIONS	0.76	1.44	0.99	1.85	2.16	2.46
	1.60	2.21	2.00	2.10	1.33	1.35

RUNOFF

TOTALS	0.000	0.037	0.000	0.000	0.021	0.001
	0.000	0.000	0.000	0.000	0.000	0.000
STD. DEVIATIONS	0.000	0.201	0.000	0.000	0.085	0.004
	0.000	0.000	0.000	0.002	0.000	0.000

EVAPOTRANSPIRATION

TOTALS	1.272	1.500	2.250	5.125	4.942	3.322
	2.622	2.569	2.720	1.973	1.034	1.008
STD. DEVIATIONS	0.347	0.489	0.721	0.949	1.980	2.310
	2.219	1.627	1.614	0.878	0.265	0.287

PERCOLATION/LEAKAGE THROUGH LAYER 3

TOTALS	0.0002	0.0002	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
STD. DEVIATIONS	0.0002	0.0002	0.0002	0.0001	0.0001	0.0000
	0.0001	0.0000	0.0000	0.0001	0.0001	0.0002

LATERAL DRAINAGE COLLECTED FROM LAYER 6

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

PERCOLATION/LEAKAGE THROUGH LAYER 7

TOTALS	0.0002	0.0002	0.0003	0.0002	0.0001	0.0001
	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002
STD. DEVIATIONS	0.0002	0.0002	0.0002	0.0001	0.0001	0.0000
	0.0001	0.0000	0.0000	0.0001	0.0001	0.0002

Case 6

LATERAL DRAINAGE COLLECTED FROM LAYER 9

TOTALS	0.0004	0.0003	0.0004	0.0003	0.0003	0.0002
	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
STD. DEVIATIONS	0.0011	0.0007	0.0009	0.0006	0.0005	0.0003
	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001

PERCOLATION/LEAKAGE THROUGH LAYER 11

TOTALS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGES OF MONTHLY AVERAGED DAILY HEADS (INCHES)

DAILY AVERAGE HEAD ON TOP OF LAYER 2

AVERAGES	7.3787	8.5530	9.9806	7.7890	4.3125	2.4875
	2.4510	2.0250	2.1547	2.9080	4.1575	5.8266
STD. DEVIATIONS	5.9463	6.1486	6.6724	4.9848	3.8061	1.2195
	1.7320	0.1180	0.5300	2.2124	3.8442	5.3964

DAILY AVERAGE HEAD ON TOP OF LAYER 7

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

DAILY AVERAGE HEAD ON TOP OF LAYER 10

AVERAGES	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
STD. DEVIATIONS	0.0001	0.0000	0.0001	0.0000	0.0000	0.0000
	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	INCHES	CU. FEET	PERCENT		
PRECIPITATION	30.38 (6.302)	110267.3	100.00		
RUNOFF	0.059 (0.2143)	212.49	0.193		
EVAPOTRANSPIRATION	30.336 (5.0975)	110118.34	99.865		
PERCOLATION/LEAKAGE THROUGH LAYER 3		0.00179 (0.00083)	6.511	0.00591	
AVERAGE HEAD ON TOP OF LAYER 2	5.002 (2.450)				
LATERAL DRAINAGE COLLECTED FROM LAYER 6		0.00000 (0.00000)	0.000	0.00000	
PERCOLATION/LEAKAGE THROUGH LAYER 7		0.00179 (0.00083)	6.512	0.00591	
AVERAGE HEAD ON TOP OF LAYER 7	0.000 (0.000)				

Case 6

LATERAL DRAINAGE COLLECTED FROM LAYER 9 0.00272 (0.00490) 9.885 0.00896

PERCOLATION/LEAKAGE THROUGH LAYER 11 0.00000 (0.00000) 0.009 0.00001

AVERAGE HEAD ON TOP OF LAYER 10 0.000 (0.000)

CHANGE IN WATER STORAGE -0.020 (2.7023) -73.40 -0.067

PEAK DAILY VALUES FOR YEARS 1 THROUGH 30 and their dates (DDDDYYYY)

	(INCHES)	(CU. FT.)		
PRECIPITATION	5.09	18476.29728	1290008	
RUNOFF	0.963	3497.42756	480003	
PERCOLATION/LEAKAGE THROUGH LAYER 3		0.000023	0.08234	460003
AVERAGE HEAD ON TOP OF LAYER 2		24.000		
DRAINAGE COLLECTED FROM LAYER 6		0.00000	0.00000	470003
PERCOLATION/LEAKAGE THROUGH LAYER 7		0.000028	0.10037	490003
AVERAGE HEAD ON TOP OF LAYER 7		0.000		
MAXIMUM HEAD ON TOP OF LAYER 7		0.000		
LOCATION OF MAXIMUM HEAD IN LAYER 6 (DISTANCE FROM DRAIN)		0.0 FEET		
DRAINAGE COLLECTED FROM LAYER 9		0.00075	2.70874	310001
PERCOLATION/LEAKAGE THROUGH LAYER 11		0.000000	0.00003	310001
AVERAGE HEAD ON TOP OF LAYER 10		0.001		
MAXIMUM HEAD ON TOP OF LAYER 10		0.003		
LOCATION OF MAXIMUM HEAD IN LAYER 9 (DISTANCE FROM DRAIN)		0.0 FEET		
SNOW WATER	1.95	7072.4948	3430003	
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.4570		
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.0580		

*** Maximum heads are computed using McEnroe's equations. ***

Reference: Maximum Saturated Depth over Landfill Liner
by Bruce M. McEnroe, University of Kansas
ASCE Journal of Environmental Engineering
Vol. 119, No. 2, March 1993, pp. 262-270.

FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(INCHES)	(VOL/VOL)
1	5.2234	0.2176
2	0.0000	0.0000
3	7.6860	0.4270

Case 6

4	1.5720	0.1310
5	676.2720	0.2920
6	7.0080	0.2920
7	0.4099	0.4270
8	9.4326	0.4094
9	0.0019	0.0100
10	0.0000	0.0000
11	11.4000	0.4750

SNOW WATER 0.000

**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383**

TYPE I PERMIT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN

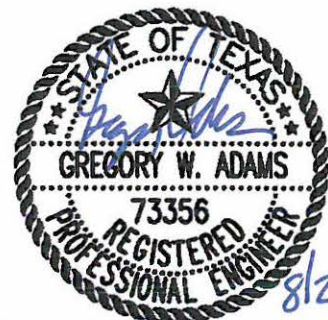
**ATTACHMENT D7
LINER QUALITY CONTROL PLAN**

Prepared for

130 ENVIRONMENTAL PARK, LLC

February 2014
Revised June 2014

Revised August 2014



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL

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TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION No. F-256

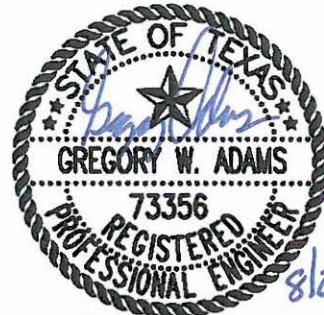
TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION No. 50222

And

BIGGS & MATHEWS, INC.

2500 Brook Avenue ♦ Wichita Falls, Texas 76301 ♦ 940-766-0156

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION No. F-834

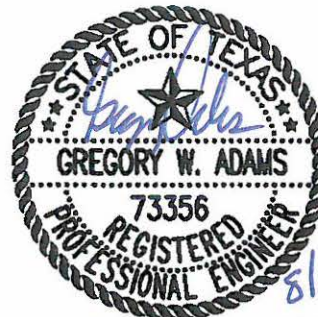


CONTENTS

Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

30 TAC §§330.63(d)(4)(G), 330.331, 330.337, 330.339, 330.341

1	INTRODUCTION	D7-1
1.1	Purpose	D7-1
1.2	Definitions	D7-1
1.3	Sequence of Construction Activities	D7-2
2	LINER SYSTEM	D7-3
2.1	Composite Liner and Leachate Collection Systems	D7-3
2.2	Construction Monitoring	D7-3
3	EARTHWORK	D7-5
3.1	General	D7-5
3.2	Materials	D7-5
3.3	Construction Below Groundwater	D7-6
3.4	Excavation	D7-6
4	COMPACTED SOIL LINER	D7-7
4.1	General	D7-7
4.2	Materials	D7-7
4.3	Subgrade Preparation	D7-7
4.4	Placement and Processing	D7-8
4.5	Compaction	D7-8
4.6	Protection	D7-8
4.7	Tie in to Existing Liners	D7-9
4.8	Testing and Verification	D7-9
4.8.1	Preconstruction Testing	D7-9
4.8.2	Construction Testing	D7-9
4.8.3	Thickness Verification	D7-10
5	GEOMEMBRANE LINER	D7-11
5.1	General	D7-11
5.2	Materials	D7-11
5.2.1	Properties	D7-11
5.2.2	Delivery and Storage	D7-11
5.3	Preparation	D7-12
5.4	Installation	D7-12
5.4.1	Deployment and Placement	D7-12
5.4.2	Seaming	D7-13
5.4.3	Anchor Trenches	D7-14
5.4.4	Repairs	D7-14
5.5	Testing and Verification	D7-15
5.5.1	Manufacturer's Quality Control Testing	D7-15
5.5.2	Conformance Testing	D7-15



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

CONTENTS (Continued)

30 TAC §§330.63(d)(4)(G), 330.331, 330.337, 330.339, 330.341

5.5.3	Trial Welds	D7-16
5.5.4	Construction Testing.....	D7-16
5.5.5	Thickness Verification.....	D7-18
6	LEACHATE AND GAS COLLECTION SYSTEMS	D7-19
6.1	General	D7-19
6.2	Materials	D7-19
6.2.1	Geocomposite	D7-19
6.2.2	Geotextile	D7-20
6.2.3	Pipe	D7-20
6.2.4	Aggregate.....	D7-20
6.2.5	Delivery and Storage	D7-21
6.3	Preparation	D7-21
6.4	Installation.....	D7-21
6.4.1	Geocomposite	D7-21
6.4.2	Geotextile	D7-22
6.4.3	Pipe	D7-23
6.4.4	Aggregate.....	D7-23
6.5	Testing and Verification.....	D7-24
6.5.1	Manufacturer's Testing	D7-24
6.5.2	Construction Testing.....	D7-25
6.5.3	Verification	D7-25
7	PROTECTIVE COVER	D7-26
7.1	General.....	D7-26
7.2	Materials	D7-26
7.3	Preparation	D7-26
7.4	Placement.....	D7-26
7.5	Testing and Verification.....	D7-27
8	DOCUMENTATION	D7-28
8.1	Reports	D7-28
8.2	Soils and Liner Evaluation Report	D7-28
8.3	Geomembrane Liner Evaluation Report	D7-29

APPENDIX D7-A

Highest Measured Groundwater Elevations

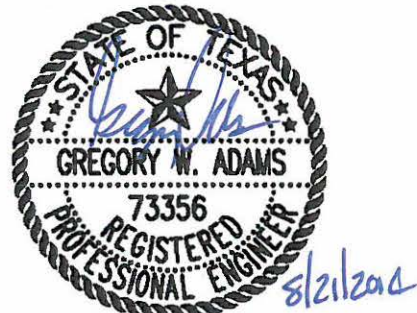
APPENDIX D7-B

GRI-GM13

CONTENTS (Continued)

30 TAC §§330.63(d)(4)(G), 330.331, 330.337, 330.339, 330.341

APPENDIX D7-C Liner System Details



Biggs & Mathews Environmental, Inc.
Firm Registration No. F-256

- Capping – used to repair failed seams or seams where nondestructive tests cannot be performed.
- Removal – used to replace areas with large defects where other repair techniques are not appropriate.

Repair procedures include the following:

- Abrade geomembrane surfaces to be repaired (extrusion welds only) no more than one hour prior to the repair.
- Clean and dry all surfaces at the time of repair.
- Extend patches or caps at least six inches beyond the edge of the defect, and round all corners of material to be patched and the patches to a radius of at least three inches. Bevel the top edges of patches prior to extrusion welding.

Destructive and non-destructive testing will be performed on all repairs in accordance with Section 5.5.4.

5.5 Testing and Verification

5.5.1 Manufacturer's Quality Control Testing

The GM manufacturer shall test the geomembrane and raw materials in accordance with GRI Standard GM13 to assure the quality of the GM.

5.5.2 Conformance Testing

Conformance samples of the GM shall be cut across the full width of selected rolls in accordance with the test frequency specified in Table D7-5. Conformance samples may be taken at the manufacturing plant or at the project site and will be forwarded to a third party laboratory for testing. Material property requirements are provided in Section 5.2.1. Minimum conformance testing requirements are provided in Table D7-5.

**Table D7-5
130 Environmental Park
GM Conformance Tests**

Test	Standard	Frequency
Sheet Thickness ¹	ASTM D 5199, 1593, or 5994	1 per 50 100,000 sf and every resin lot
Specific Gravity	ASTM D 1505	1 per 100,000 sf and every resin lot
Carbon Black Content	ASTM D 1603	1 per 100,000 sf and every resin lot
Carbon Black Dispersion	ASTM D 3015 or 5596	1 per 100,000 sf and every resin lot
Tensile Properties	ASTM D 638	1 per 100,000 sf and every resin lot
Direct Shear	ASTM D 5321	1 per GM/adjoining material type

¹Additional thickness testing at laboratory performed in place of field thickness testing.

A direct shear test will be performed on the GM/soil and the GM/geocomposite interfaces for each manufacturer's material used at the site. The GP will perform a slope stability analysis using the site-specific direct shear test data. The angle of friction and cohesion values will be acceptable if the results of the site-specific slope stability analysis demonstrate that the factor of safety against sliding is 1.5 or greater.

5.5.3 Trial Welds

Each operator and welding apparatus must be tested to verify that seam welds that meet the specifications can be achieved under the site conditions. Trial welds must be performed at the beginning and midpoint of each day for each operator and apparatus used that day. If welding continues past 6:00 p.m., additional trial welds may be required. Trial welds should also be made at each occurrence of significantly different environmental conditions (such as temperature, humidity, or dust), anytime a machine is turned off for more than 30 minutes, and when seaming different geomembranes (such as at tie-ins).

The trial weld samples shall be 3 feet long and 12 inches wide, with the seam centered lengthwise. At least four one-inch-wide coupons will be cut from each trial weld sample. Two coupons from each sample will be tested for shear and two samples will be tested for peel. Peel test coupons for dual-track welds shall be tested on both sides of the air channel. Each coupon must meet the minimum strength requirements listed in Table D7-6 and exhibit a Film Tear Bond (FTB). If the trial weld fails, two more trial seams must be welded and tested. This process will continue until passing trial welds are achieved.

The CQA monitor must observe the trial welding operations and document the operator's initials, apparatus number, time, date, air temperature, apparatus temperature, and peel and shear test results. If the CQA monitor believes that an operator or apparatus is not functioning properly, or if the weather conditions have substantially changed since the trial welds were performed, new trial welds must be performed.

5.5.4 Construction Testing

Nondestructive Tests

Nondestructive seam tests include vacuum testing and air pressure testing. Nondestructive testing shall be performed for the entire length of each seam by the GM installer.

Vacuum testing shall be used to test extrusion-welded seams and fusion-welded seams that cannot be tested by air pressure methods. The vacuum box shall be placed over a seam section that has been thoroughly saturated with a soapy water solution. The rubber gasket on the bottom of the vacuum box must seal against the GM to prevent leaks. Three to five inches of vacuum in Hg-should will be applied. Soap bubbles will indicate the presence of holes or non-bonded seams. The vacuum box dwell time shall be at least 10 seconds.

Air pressure testing shall be used to test fusion-welded seams that have an air channel. Both ends of the air channel shall be sealed and air shall be pumped into the channel to at least 30 psi or 1/2 psi per mil of thickness, whichever is greater. The air channel must

**Table D7-6
130 Environmental Park
GM Seam Properties**

Test	Standard	Frequency	Minimum Criteria
Shear	ASTM D 4437	One sample per 500 feet of seam	Four of five specimens from each sample must have a shear strength greater than or equal to 95% of sheet strength but not less than 120 ppi. The average shear strength value of all five specimens must be greater than or equal to 95% of sheet strength but not less than 120 ppi.
Peel	ASTM D 4437	One sample per 500 feet of seam	Four of five specimens from each sample must have a peel strength greater than or equal to 62% of sheet strength but not less than 78 ppi. The average peel strength value of all five specimens must be greater than or equal to 62% of sheet strength but not less than 78 ppi. Both sides of dual track seams shall meet the minimum criteria. Each track is considered a separate sample. All specimens shall exhibit Film Tear Bond.

During destructive seam testing, the CQA monitor must:

- Select sample locations and observe sample cutting.
- Assign sample numbers and label samples.
- Observe installer-performed tests.
- Record sample locations, sample number, sample purpose, and field test results.

5.5.5 Thickness Verification

The CQA monitor shall perform thickness verification tests on each panel. ~~unless thickness conformance tests are performed at a frequency of 1 per 50,000 sf. If field thickness testing is required, thickness verification shall be performed with a micrometer at a minimum of one measurement per five feet along the leading edge of the panel. A minimum of five tests is required for each panel. Thickness criteria shall be in accordance with GRI-GM13 which is provided in Appendix D7-B. A series of five measurements along the leading edge of each panel shall be taken with a micrometer or caliper. Individual measurements shall not be greater than five feet apart. For smooth HDPE geomembrane, the average thickness shall be no less than the nominal thickness of the geomembrane and the minimum thickness shall be no less than 90% of the nominal thickness. For HDPE geomembrane, the average thickness shall be no less than 95% of the nominal thickness of the geomembrane and the minimum thickness shall be no less than 85% of the nominal thickness.~~ The CQA monitor shall record panel numbers, panel dimensions, roll numbers destructive test numbers, and repair numbers.