

ATTACHMENT 2
ENERGYSOLUTIONS
CLASS A WEST (CAW) CELL
UNSAT-H MODEL INPUT & OUTPUT
FILES

Prepared for



EnergySolutions, LLC
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Salt Lake City, UT 84101

Prepared by

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Document 4104K.110419

April 19, 2011

 Program DATAINH
 Version2.05

Input Filename: C:\Users\Whetstone1\Documents\4101K-CAW\UnsatH\2010\t6e_21.i
 Date Processed: 14 Dec 2010
 Time Processed: 20:18:42.42

Title:
 T6E_21.INP: CAW Cell Unsat flow, 6" Type-B Filter, 57' Waste, 0.237 cm/yr infiltr

Options chosen include:

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IPLANT = 0      LOWER = 2      NGRAV = 1      ISWDIF = 1
IHEAT = 0      UPPERH = 0     LOWERH = 0
NPRINT = 0     DAYEND = 365    NDAYS = 365   NYEARS = 10
IRAIN = 0      ICONVH = 0
NSURPE = 0     NFHOUR = 2      ITOPBC = 0    ET_OPT = 0
ICLOUD = 0
KOPT = 4      KEST = 3      IVAPOR = 0    SH_OPT = 0
INMAX = 3     INHMAX = 2
HIRRI = 0.00  HDRY = 1.000E+04 HTOP = 0.00   DHMAX = 0.00
DMAXBA = 5.000E-04 DELMAX = 0.150  DELMIN = 1.500E-08 STOPHR = 24.0
OUTTIM = 0.150
TORT = 0.660  TSOIL = 288.   VAPDIF = 0.240 QHTOP = 0.00
TGRAD = 0.00  TSMEAN = 288.  TSAMP = 10.0   QHLEAK = 0.00
WTF = 0.500   RFACT = 1.05   RAINIF = 1.000E-05 DHFACT = 0.00
MATN = 5      NPT = 129
  
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KOPT = 4: van Genuchten functions for soil hydraulic properties

THETA vs H, MAT 1, Radon Barrier Moisture Characteristics
 AIRINT = 0.0000 THET = 0.43200
 THTR = 0.10000 ALPHA = 3.00000E-03
 N = 1.1720 M = 0.14676

K vs H, MAT 1, Radon Barrier Hydraulic Conductivity
 AIRINK = 0.0000 SK = 1.80000E-04
 A = 3.00000E-03 N = 1.1720
 M = 0.14676 KMODEL = 2.0000
 EPIT = 4.5000

THETA vs H, MAT 2, Radon Barrier2 Moisture Characteristics
 AIRINT = 0.0000 THET = 0.43200
 THTR = 0.10000 ALPHA = 3.00000E-03
 N = 1.1720 M = 0.14676

K vs H, MAT 2, Radon Barrier2 Hydraulic Conductivity
 AIRINK = 0.0000 SK = 3.60000E-03
 A = 3.00000E-03 N = 1.1720
 M = 0.14676 KMODEL = 2.0000
 EPIT = 4.5000

THETA vs H, MAT 3, Waste Moisture Characteristics
 AIRINT = 0.0000 THET = 0.35000
 THTR = 2.00000E-02 ALPHA = 0.11500
 N = 2.0130 M = 0.50323

K vs H, MAT 3, Waste Hydraulic Conductivity
 AIRINK = 0.0000 SK = 1.8000
 A = 0.11500 N = 2.0130
 M = 0.50323 KMODEL = 2.0000
 EPIT = 0.50000

THETA vs H, MAT 4, Clay Liner Moisture Characteristics
 AIRINT = 0.0000 THET = 0.43200
 THTR = 0.10000 ALPHA = 3.00000E-03
 N = 1.1720 M = 0.14676

K vs H, MAT 4, Clay Liner Hydraulic Conductivity
 AIRINK = 0.0000 SK = 3.60000E-03
 A = 3.00000E-03 N = 1.1720
 M = 0.14676 KMODEL = 2.0000
 EPIT = 4.5000

THETA vs H, MAT 5, Unit 3 Silty Sand Moisture Characteristics
 AIRINT = 0.0000 THET = 0.34000
 THTR = 2.00000E-02 ALPHA = 5.50000E-02
 N = 2.5180 M = 0.60286

K vs H, MAT 5, Unit 3 Silty Sand Hydraulic Conductivity
 AIRINK = 0.0000 SK = 2.7110
 A = 5.50000E-02 N = 2.5180
 M = 0.60286 KMODEL = 2.0000
 EPIT = 0.50000

Surface node hydraulic properties

HIRRI = 0.0, THETA = 0.4320, K = 1.8000E-04, C = -1.9786E-08
 HDRY = 1.00E+04, THETA = 0.2845, K = 9.2973E-11, C = -3.1149E-06
 NDAY = 0

NODE	Z	MAT	HEAD	CONDUCTIVITY	CAPACITY	THETA	TEMP
1	0.00	1	4.9500E+01	1.4187E-05	-1.0983E-04	0.4271	288.1

2	0.10	1	4.9600E+01	1.4163E-05	-1.0984E-04	0.4271	288.1
3	0.30	1	4.9800E+01	1.4116E-05	-1.0986E-04	0.4271	288.1
4	0.60	1	5.0100E+01	1.4045E-05	-1.0988E-04	0.4270	288.1
5	1.10	1	5.0600E+01	1.3928E-05	-1.0993E-04	0.4270	288.1
6	2.00	1	5.1400E+01	1.3744E-05	-1.0999E-04	0.4269	288.1
7	3.50	1	5.2900E+01	1.3410E-05	-1.1010E-04	0.4267	288.1
8	6.50	1	5.6100E+01	1.2739E-05	-1.1028E-04	0.4264	288.1
9	11.50	1	6.2300E+01	1.1581E-05	-1.1046E-04	0.4257	288.1
10	19.00	1	7.3800E+01	9.8227E-06	-1.1031E-04	0.4244	288.1
11	24.00	1	8.3500E+01	8.6342E-06	-1.0981E-04	0.4233	288.1
12	27.00	1	9.0400E+01	7.9137E-06	-1.0930E-04	0.4226	288.1
13	28.50	1	9.4100E+01	7.5630E-06	-1.0899E-04	0.4222	288.1
14	29.40	1	9.6500E+01	7.3474E-06	-1.0877E-04	0.4219	288.1
15	29.90	1	9.7900E+01	7.2258E-06	-1.0864E-04	0.4218	288.1
16	30.20	1	9.8700E+01	7.1575E-06	-1.0856E-04	0.4217	288.1
17	30.40	1	9.9200E+01	7.1154E-06	-1.0851E-04	0.4216	288.1
18	30.50	1	9.9500E+01	7.0902E-06	-1.0848E-04	0.4216	288.1
19	30.60	2	9.9500E+01	1.4180E-04	-1.0848E-04	0.4216	288.1
20	30.80	2	9.9400E+01	1.4197E-04	-1.0849E-04	0.4216	288.1
21	31.10	2	9.9100E+01	1.4248E-04	-1.0852E-04	0.4216	288.1
22	31.60	2	9.8700E+01	1.4315E-04	-1.0856E-04	0.4217	288.1
23	32.50	2	9.8000E+01	1.4434E-04	-1.0863E-04	0.4218	288.1
24	34.00	2	9.6800E+01	1.4642E-04	-1.0874E-04	0.4219	288.1
25	37.00	2	9.4300E+01	1.5089E-04	-1.0897E-04	0.4222	288.1
26	42.00	2	9.0200E+01	1.5867E-04	-1.0932E-04	0.4226	288.1
27	49.50	2	8.3900E+01	1.7180E-04	-1.0979E-04	0.4233	288.1
28	54.50	2	7.9700E+01	1.8146E-04	-1.1004E-04	0.4238	288.1
29	57.50	2	7.7100E+01	1.8785E-04	-1.1017E-04	0.4240	288.1
30	59.00	2	7.5800E+01	1.9117E-04	-1.1023E-04	0.4242	288.1
31	59.90	2	7.5100E+01	1.9300E-04	-1.1026E-04	0.4243	288.1
32	60.40	2	7.4600E+01	1.9431E-04	-1.1028E-04	0.4243	288.1
33	60.70	2	7.4400E+01	1.9485E-04	-1.1029E-04	0.4243	288.1
34	60.90	2	7.4200E+01	1.9538E-04	-1.1030E-04	0.4244	288.1
35	61.00	2	7.4100E+01	1.9565E-04	-1.1030E-04	0.4244	288.1
36	61.10	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
37	61.30	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
38	61.60	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
39	62.10	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
40	63.00	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
41	64.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
42	67.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
43	72.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
44	82.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
45	102.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
46	142.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
47	222.50	3	7.4100E+01	2.6983E-05	-5.0467E-04	0.0574	288.1
48	372.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
49	592.50	3	7.4100E+01	2.6983E-05	-5.0467E-04	0.0574	288.1
50	929.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
51	1266.50	3	7.4100E+01	2.6983E-05	-5.0467E-04	0.0574	288.1
52	1486.50	3	7.4000E+01	2.7147E-05	-5.0602E-04	0.0575	288.1
53	1636.50	3	7.4100E+01	2.6983E-05	-5.0467E-04	0.0574	288.1
54	1716.50	3	7.3900E+01	2.7312E-05	-5.0737E-04	0.0575	288.1
55	1756.50	3	7.5500E+01	2.4810E-05	-4.8637E-04	0.0567	288.1
56	1776.50	3	8.1000E+01	1.8092E-05	-4.2324E-04	0.0542	288.1
57	1786.50	3	9.0000E+01	1.1265E-05	-3.4345E-04	0.0508	288.1
58	1791.50	3	1.0000E+02	7.0085E-06	-2.7853E-04	0.0477	288.1
59	1794.50	3	1.1300E+02	4.0389E-06	-2.1830E-04	0.0445	288.1
60	1796.00	3	1.2300E+02	2.7544E-06	-1.8429E-04	0.0425	288.1
61	1796.90	3	1.3300E+02	1.9351E-06	-1.5763E-04	0.0408	288.1
62	1797.40	3	1.4000E+02	1.5347E-06	-1.4225E-04	0.0397	288.1
63	1797.70	3	1.4600E+02	1.2696E-06	-1.3079E-04	0.0389	288.1
64	1797.90	3	1.5000E+02	1.1236E-06	-1.2390E-04	0.0384	288.1
65	1798.00	3	1.5200E+02	1.0582E-06	-1.2065E-04	0.0382	288.1
66	1798.10	3	1.5500E+02	9.6874E-07	-1.1602E-04	0.0378	288.1
67	1798.20	4	1.5500E+02	7.9436E-05	-1.0146E-04	0.4158	288.1
68	1798.40	4	1.5500E+02	7.9436E-05	-1.0146E-04	0.4158	288.1
69	1798.70	4	1.5500E+02	7.9436E-05	-1.0146E-04	0.4158	288.1
70	1799.20	4	1.5400E+02	8.0184E-05	-1.0161E-04	0.4159	288.1
71	1799.90	4	1.5400E+02	8.0184E-05	-1.0161E-04	0.4159	288.1
72	1800.90	4	1.5300E+02	8.0941E-05	-1.0175E-04	0.4160	288.1
73	1802.40	4	1.5200E+02	8.1708E-05	-1.0189E-04	0.4161	288.1
74	1804.10	4	1.5100E+02	8.2485E-05	-1.0203E-04	0.4162	288.1
75	1808.10	4	1.4800E+02	8.4878E-05	-1.0245E-04	0.4165	288.1
76	1814.10	4	1.4400E+02	8.8220E-05	-1.0301E-04	0.4169	288.1
77	1824.10	4	1.3700E+02	9.4520E-05	-1.0397E-04	0.4176	288.1
78	1833.10	4	1.3100E+02	1.0043E-04	-1.0477E-04	0.4182	288.1
79	1843.10	4	1.2300E+02	1.0913E-04	-1.0581E-04	0.4191	288.1
80	1849.10	4	1.1900E+02	1.1388E-04	-1.0630E-04	0.4195	288.1
81	1853.10	4	1.1600E+02	1.1764E-04	-1.0667E-04	0.4198	288.1
82	1854.80	4	1.1400E+02	1.2024E-04	-1.0691E-04	0.4200	288.1

83	1856.30	4	1.1300E+02	1.2157E-04	-1.0702E-04	0.4201	288.1
84	1857.30	4	1.1200E+02	1.2293E-04	-1.0714E-04	0.4202	288.1
85	1858.00	4	1.1200E+02	1.2293E-04	-1.0714E-04	0.4202	288.1
86	1858.50	4	1.1200E+02	1.2293E-04	-1.0714E-04	0.4202	288.1
87	1858.80	4	1.1100E+02	1.2430E-04	-1.0725E-04	0.4203	288.1
88	1859.00	4	1.1100E+02	1.2430E-04	-1.0725E-04	0.4203	288.1
89	1859.10	4	1.1100E+02	1.2430E-04	-1.0725E-04	0.4203	288.1
90	1859.20	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
91	1859.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
92	1859.70	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
93	1860.20	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
94	1860.90	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
95	1861.90	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
96	1863.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
97	1865.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
98	1868.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
99	1872.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
100	1878.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
101	1888.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
102	1903.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
103	1921.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
104	1942.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
105	1966.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
106	1990.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
107	2014.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
108	2038.40	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
109	2064.50	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
110	2088.50	5	1.1100E+02	2.7031E-05	-2.7615E-04	0.0404	288.1
111	2112.50	5	1.1000E+02	2.8474E-05	-2.8241E-04	0.0407	288.1
112	2136.50	5	1.0700E+02	3.3373E-05	-3.0240E-04	0.0416	288.1
113	2160.50	5	9.8400E+01	5.3958E-05	-3.7183E-04	0.0444	288.1
114	2184.50	5	8.1400E+01	1.5934E-04	-5.9129E-04	0.0524	288.1
115	2205.50	5	6.2000E+01	7.4022E-04	-1.1332E-03	0.0684	288.1
116	2223.50	5	4.4300E+01	4.6617E-03	-2.4135E-03	0.0979	288.1
117	2238.50	5	2.9300E+01	3.7464E-02	-5.2716E-03	0.1524	288.1
118	2248.50	5	1.9300E+01	2.0945E-01	-8.4987E-03	0.2210	288.1
119	2254.50	5	1.3300E+01	6.1447E-01	-9.1112E-03	0.2752	288.1
120	2258.50	5	9.3000E+00	1.1691E+00	-7.3574E-03	0.3089	288.1
121	2261.50	5	6.3000E+00	1.7337E+00	-4.8016E-03	0.3273	288.1
122	2263.50	5	4.3000E+00	2.1290E+00	-2.8711E-03	0.3350	288.1
123	2265.00	5	2.8000E+00	2.3986E+00	-1.5389E-03	0.3383	288.1
124	2266.00	5	1.8000E+00	2.5494E+00	-7.9452E-04	0.3394	288.1
125	2266.70	5	1.1000E+00	2.6342E+00	-3.7748E-04	0.3398	288.1
126	2267.20	5	6.0000E-01	2.6804E+00	-1.5058E-04	0.3400	288.1
127	2267.50	5	3.0000E-01	2.7003E+00	-5.2590E-05	0.3400	288.1
128	2267.70	5	1.0000E-01	2.7090E+00	-9.9232E-06	0.3400	288.1
129	2267.80	5	0.0000E+00	2.7110E+00	-1.5572E-08	0.3400	288.1

Total Initial Storage = 176.5766 cm

 NSURPE = 0: There will be no surface evaporation

IRAIN = 0

NWATER (number of days of rain/irrigation) =365

Rainfall/Irrigation Details

Day	Time (hr)	Amount (cm)	Application Type	Efficiency	Changes In Rate/Head
1	0.000	0.0007	1	1.000	2
	24.000	0.0000			
2	0.000	0.0007	1	1.000	2
	24.000	0.0000			
3	0.000	0.0007	1	1.000	2
	24.000	0.0000			
4	0.000	0.0007	1	1.000	2
	24.000	0.0000			

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360	0.000	0.0007	1	1.000	2
	24.000	0.0000			
361	0.000	0.0007	1	1.000	2
	24.000	0.0000			
362	0.000	0.0007	1	1.000	2
	24.000	0.0000			
363	0.000	0.0007	1	1.000	2
	24.000	0.0000			
364	0.000	0.0007	1	1.000	2
	24.000	0.0000			
365	0.000	0.0007	1	1.000	2
	24.000	0.0000			

Total Water Applied = 0.2373 cm

 Program DATAINH
 Version2.05

Input Filename: C:\Users\Whetstone1\Documents\4101K-CAW\UnsatH\2010\s6e_08.i
 Date Processed: 28 Mar 2011
 Time Processed: 18:45:57.60

Title:
 S6E_08.INP: CAW Cell Unsat flow, 12" Type-B Filter, 19' Waste, 0.335 cm/yr infil

Options chosen include:

IPLANT = 0 LOWER = 2 NGRAV = 1 ISWDIF = 1
 IHEAT = 0 UPPERH = 0 LOWERH = 0
 NPRINT = 0 DAYEND = 365 NDAYS = 365 NYEARS = 10
 IRAIN = 0 ICONVH = 0
 NSURPE = 0 NFHOUR = 2 ITOPBC = 0 ET_OPT = 0
 ICLOUD = 0
 KOPT = 4 KEST = 3 IVAPOR = 0 SH_OPT = 0
 INMAX = 3 INHMAX = 2
 HIRRI = 0.00 HDRY = 1.000E+04 HTOP = 0.00 DHMAX = 0.00
 DMAXBA = 5.000E-04 DELMAX = 0.150 DELMIN = 1.500E-08 STOPHR = 24.0
 OUTTIM = 0.150
 TORT = 0.660 TSOIL = 288. VAPDIF = 0.240 QHTOP = 0.00
 TGRAD = 0.00 TSMEAN = 288. TSAMP = 10.0 QHLEAK = 0.00
 WTF = 0.500 RFACT = 1.05 RAINIF = 1.000E-05 DHFACT = 0.00
 MATN = 5 NPT = 125

KOPT = 4: van Genuchten functions for soil hydraulic properties

THETA vs H, MAT 1, Radon Barrier Moisture Characteristics
 AIRINT = 0.0000 THET = 0.43200
 THTR = 0.10000 ALPHA = 3.00000E-03
 N = 1.1720 M = 0.14676

K vs H, MAT 1, Radon Barrier Hydraulic Conductivity
 AIRINK = 0.0000 SK = 1.80000E-04
 A = 3.00000E-03 N = 1.1720
 M = 0.14676 KMODEL = 2.0000
 EPIT = 4.5000

THETA vs H, MAT 2, Radon Barrier2 Moisture Characteristics
 AIRINT = 0.0000 THET = 0.43200
 THTR = 0.10000 ALPHA = 3.00000E-03
 N = 1.1720 M = 0.14676

K vs H, MAT 2, Radon Barrier2 Hydraulic Conductivity
 AIRINK = 0.0000 SK = 3.60000E-03
 A = 3.00000E-03 N = 1.1720
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THETA vs H, MAT 3, Waste Moisture Characteristics
 AIRINT = 0.0000 THET = 0.35000
 THTR = 2.00000E-02 ALPHA = 0.11500
 N = 2.0130 M = 0.50323

K vs H, MAT 3, Waste Hydraulic Conductivity
 AIRINK = 0.0000 SK = 1.8000
 A = 0.11500 N = 2.0130
 M = 0.50323 KMODEL = 2.0000
 EPIT = 0.50000

THETA vs H, MAT 4, Clay Liner Moisture Characteristics
 AIRINT = 0.0000 THET = 0.43200
 THTR = 0.10000 ALPHA = 3.00000E-03
 N = 1.1720 M = 0.14676

K vs H, MAT 4, Clay Liner Hydraulic Conductivity
 AIRINK = 0.0000 SK = 3.60000E-03
 A = 3.00000E-03 N = 1.1720
 M = 0.14676 KMODEL = 2.0000
 EPIT = 4.5000

THETA vs H, MAT 5, Unit 3 Silty Sand Moisture Characteristics
 AIRINT = 0.0000 THET = 0.34000
 THTR = 2.00000E-02 ALPHA = 5.50000E-02
 N = 2.5180 M = 0.60286

K vs H, MAT 5, Unit 3 Silty Sand Hydraulic Conductivity
 AIRINK = 0.0000 SK = 2.7110
 A = 5.50000E-02 N = 2.5180
 M = 0.60286 KMODEL = 2.0000
 EPIT = 0.50000

Surface node hydraulic properties

HIRRI = 0.0, THETA = 0.4320, K = 1.8000E-04, C = -1.9786E-08
 HDRY = 1.00E+04, THETA = 0.2845, K = 9.2973E-11, C = -3.1149E-06
 NDAY = 0

NODE	Z	MAT	HEAD	CONDUCTIVITY	CAPACITY	THETA	TEMP
1	0.00	1	3.1500E+01	1.9925E-05	-1.0645E-04	0.4290	288.1

2	0.10	1	3.1600E+01	1.9882E-05	-1.0648E-04	0.4290	288.1
3	0.30	1	3.1800E+01	1.9798E-05	-1.0654E-04	0.4290	288.1
4	0.60	1	3.2100E+01	1.9672E-05	-1.0663E-04	0.4290	288.1
5	1.10	1	3.2600E+01	1.9465E-05	-1.0678E-04	0.4289	288.1
6	2.00	1	3.3500E+01	1.9102E-05	-1.0704E-04	0.4288	288.1
7	3.50	1	3.5000E+01	1.8524E-05	-1.0744E-04	0.4287	288.1
8	6.50	1	3.8500E+01	1.7288E-05	-1.0824E-04	0.4283	288.1
9	11.50	1	4.5200E+01	1.5280E-05	-1.0935E-04	0.4276	288.1
10	19.00	1	5.8800E+01	1.2214E-05	-1.1039E-04	0.4261	288.1
11	24.00	1	7.0900E+01	1.0226E-05	-1.1040E-04	0.4247	288.1
12	27.00	1	7.9900E+01	9.0490E-06	-1.1003E-04	0.4237	288.1
13	28.50	1	8.5000E+01	8.4697E-06	-1.0971E-04	0.4232	288.1
14	29.40	1	8.8200E+01	8.1336E-06	-1.0948E-04	0.4228	288.1
15	29.90	1	9.0100E+01	7.9432E-06	-1.0933E-04	0.4226	288.1
16	30.20	1	9.1300E+01	7.8263E-06	-1.0923E-04	0.4225	288.1
17	30.40	1	9.2100E+01	7.7497E-06	-1.0916E-04	0.4224	288.1
18	30.50	1	9.2500E+01	7.7118E-06	-1.0913E-04	0.4224	288.1
19	30.60	2	9.2500E+01	1.5424E-04	-1.0913E-04	0.4224	288.1
20	30.80	2	9.2300E+01	1.5461E-04	-1.0915E-04	0.4224	288.1
21	31.10	2	9.2100E+01	1.5499E-04	-1.0916E-04	0.4224	288.1
22	31.60	2	9.1700E+01	1.5576E-04	-1.0920E-04	0.4224	288.1
23	32.50	2	9.1000E+01	1.5711E-04	-1.0926E-04	0.4225	288.1
24	34.00	2	8.9900E+01	1.5926E-04	-1.0934E-04	0.4226	288.1
25	37.00	2	8.7600E+01	1.6390E-04	-1.0952E-04	0.4229	288.1
26	42.00	2	8.3700E+01	1.7224E-04	-1.0980E-04	0.4233	288.1
27	49.50	2	7.7900E+01	1.8585E-04	-1.1013E-04	0.4240	288.1
28	54.50	2	7.3900E+01	1.9618E-04	-1.1031E-04	0.4244	288.1
29	57.50	2	7.1400E+01	2.0309E-04	-1.1039E-04	0.4247	288.1
30	59.00	2	7.0200E+01	2.0654E-04	-1.1042E-04	0.4248	288.1
31	59.90	2	6.9500E+01	2.0859E-04	-1.1043E-04	0.4249	288.1
32	60.40	2	6.9100E+01	2.0977E-04	-1.1044E-04	0.4249	288.1
33	60.70	2	6.8800E+01	2.1067E-04	-1.1044E-04	0.4250	288.1
34	60.90	2	6.8700E+01	2.1097E-04	-1.1045E-04	0.4250	288.1
35	61.00	2	6.8600E+01	2.1127E-04	-1.1045E-04	0.4250	288.1
36	61.10	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
37	61.30	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
38	61.60	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
39	62.10	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
40	63.00	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
41	64.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
42	67.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
43	72.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
44	82.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
45	102.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
46	142.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
47	222.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
48	350.50	3	6.8500E+01	3.8375E-05	-5.8915E-04	0.0605	288.1
49	478.50	3	6.8600E+01	3.8126E-05	-5.8747E-04	0.0604	288.1
50	558.50	3	6.8400E+01	3.8627E-05	-5.9085E-04	0.0605	288.1
51	598.50	3	6.9500E+01	3.5964E-05	-5.7260E-04	0.0599	288.1
52	618.50	3	7.4200E+01	2.6821E-05	-5.0333E-04	0.0574	288.1
53	628.50	3	8.2100E+01	1.7028E-05	-4.1209E-04	0.0538	288.1
54	633.50	3	9.1500E+01	1.0457E-05	-3.3235E-04	0.0503	288.1
55	636.50	3	1.0300E+02	6.1343E-06	-2.6261E-04	0.0469	288.1
56	638.00	3	1.1300E+02	4.0389E-06	-2.1830E-04	0.0445	288.1
57	638.90	3	1.2200E+02	2.8578E-06	-1.8733E-04	0.0427	288.1
58	639.40	3	1.2900E+02	2.2213E-06	-1.6756E-04	0.0414	288.1
59	639.70	3	1.3400E+02	1.8707E-06	-1.5528E-04	0.0406	288.1
60	639.90	3	1.3800E+02	1.6379E-06	-1.4641E-04	0.0400	288.1
61	640.00	3	1.4100E+02	1.4862E-06	-1.4024E-04	0.0396	288.1
62	640.10	3	1.4300E+02	1.3945E-06	-1.3634E-04	0.0393	288.1
63	640.20	4	1.4400E+02	8.8220E-05	-1.0301E-04	0.4169	288.1
64	640.40	4	1.4300E+02	8.9084E-05	-1.0315E-04	0.4170	288.1
65	640.70	4	1.4300E+02	8.9084E-05	-1.0315E-04	0.4170	288.1
66	641.20	4	1.4300E+02	8.9084E-05	-1.0315E-04	0.4170	288.1
67	641.90	4	1.4300E+02	8.9084E-05	-1.0315E-04	0.4170	288.1
68	642.90	4	1.4200E+02	8.9959E-05	-1.0329E-04	0.4171	288.1
69	644.40	4	1.4100E+02	9.0847E-05	-1.0342E-04	0.4172	288.1
70	646.10	4	1.4000E+02	9.1746E-05	-1.0356E-04	0.4173	288.1
71	650.10	4	1.3800E+02	9.3582E-05	-1.0383E-04	0.4175	288.1
72	656.10	4	1.3400E+02	9.7411E-05	-1.0437E-04	0.4179	288.1
73	666.10	4	1.2800E+02	1.0357E-04	-1.0517E-04	0.4185	288.1
74	675.10	4	1.2200E+02	1.1029E-04	-1.0593E-04	0.4192	288.1
75	685.10	4	1.1600E+02	1.1764E-04	-1.0667E-04	0.4198	288.1
76	691.10	4	1.1200E+02	1.2293E-04	-1.0714E-04	0.4202	288.1
77	695.10	4	1.0900E+02	1.2712E-04	-1.0748E-04	0.4206	288.1
78	696.80	4	1.0800E+02	1.2856E-04	-1.0759E-04	0.4207	288.1
79	698.30	4	1.0700E+02	1.3002E-04	-1.0770E-04	0.4208	288.1
80	699.30	4	1.0600E+02	1.3151E-04	-1.0781E-04	0.4209	288.1
81	700.00	4	1.0500E+02	1.3302E-04	-1.0792E-04	0.4210	288.1
82	700.50	4	1.0500E+02	1.3302E-04	-1.0792E-04	0.4210	288.1

83	700.80	4	1.0500E+02	1.3302E-04	-1.0792E-04	0.4210	288.1
84	701.00	4	1.0500E+02	1.3302E-04	-1.0792E-04	0.4210	288.1
85	701.10	4	1.0500E+02	1.3302E-04	-1.0792E-04	0.4210	288.1
86	701.20	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
87	701.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
88	701.70	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
89	702.20	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
90	702.90	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
91	703.90	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
92	705.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
93	707.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
94	710.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
95	714.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
96	720.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
97	730.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
98	745.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
99	763.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
100	784.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
101	808.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
102	832.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
103	856.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
104	880.40	5	1.0500E+02	3.7190E-05	-3.1683E-04	0.0422	288.1
105	906.50	5	1.0400E+02	3.9289E-05	-3.2441E-04	0.0425	288.1
106	930.50	5	1.0400E+02	3.9289E-05	-3.2441E-04	0.0425	288.1
107	954.50	5	1.0400E+02	3.9289E-05	-3.2441E-04	0.0425	288.1
108	978.50	5	1.0200E+02	4.3917E-05	-3.4033E-04	0.0432	288.1
109	1002.50	5	9.5700E+01	6.3276E-05	-3.9817E-04	0.0455	288.1
110	1026.50	5	8.0600E+01	1.6854E-04	-6.0563E-04	0.0529	288.1
111	1047.50	5	6.1900E+01	7.4693E-04	-1.1375E-03	0.0685	288.1
112	1065.50	5	4.4300E+01	4.6617E-03	-2.4135E-03	0.0979	288.1
113	1080.50	5	2.9300E+01	3.7464E-02	-5.2716E-03	0.1524	288.1
114	1090.50	5	1.9300E+01	2.0945E-01	-8.4987E-03	0.2210	288.1
115	1096.50	5	1.3300E+01	6.1447E-01	-9.1112E-03	0.2752	288.1
116	1100.50	5	9.3000E+00	1.1691E+00	-7.3574E-03	0.3089	288.1
117	1103.50	5	6.3000E+00	1.7337E+00	-4.8016E-03	0.3273	288.1
118	1105.50	5	4.3000E+00	2.1290E+00	-2.8711E-03	0.3350	288.1
119	1107.00	5	2.8000E+00	2.3986E+00	-1.5389E-03	0.3383	288.1
120	1108.00	5	1.8000E+00	2.5494E+00	-7.9452E-04	0.3394	288.1
121	1108.70	5	1.1000E+00	2.6342E+00	-3.7748E-04	0.3398	288.1
122	1109.20	5	6.0000E-01	2.6804E+00	-1.5058E-04	0.3400	288.1
123	1109.50	5	3.0000E-01	2.7003E+00	-5.2590E-05	0.3400	288.1
124	1109.70	5	1.0000E-01	2.7090E+00	-9.9232E-06	0.3400	288.1
125	1109.80	5	0.0000E+00	2.7110E+00	-1.5572E-08	0.3400	288.1

Total Initial Storage = 112.5014 cm

NSURPE = 0: There will be no surface evaporation

IRAIN = 0

NWATER (number of days of rain/irrigation) =365

Rainfall/Irrigation Details

Day	Time (hr)	Amount (cm)	Application Type	Efficiency	Changes In Rate/Head
1	0.000	0.0009	1	1.000	2
	24.000	0.0000			
2	0.000	0.0009	1	1.000	2
	24.000	0.0000			
3	0.000	0.0009	1	1.000	2
	24.000	0.0000			
4	0.000	0.0009	1	1.000	2
	24.000	0.0000			
•					
•					
•					
360	0.000	0.0009	1	1.000	2
	24.000	0.0000			
361	0.000	0.0009	1	1.000	2
	24.000	0.0000			
362	0.000	0.0009	1	1.000	2
	24.000	0.0000			
363	0.000	0.0009	1	1.000	2
	24.000	0.0000			
364	0.000	0.0009	1	1.000	2
	24.000	0.0000			
365	0.000	0.0009	1	1.000	2
	24.000	0.0000			

Total Water Applied = 0.3358 cm

UNSAT-H Version 2.05
INITIAL CONDITIONS

Input Filename: C:\Users\Whetstonel\Documents\4101K-CAW\UnsatH\2010\t6e_21.in
Results Filename: C:\Users\Whetstonel\Documents\4101K-CAW\UnsatH\2010\t6e_21.re
Date of Run: 14 Dec 2010
Time of Run: 20:18:54.77
Title:
T6E_21.INP: CAW Cell Unsat flow, 6" Type-B Filter, 57' Waste, 0.237 cm/yr infil

Initial Conditions					Initial Conditions				
NODE	DEPTH (cm)	HEAD (cm)	THETA (vol.)	TEMP (K)	NODE	DEPTH (cm)	HEAD (cm)	THETA (vol.)	TEMP (K)
1	0.000E+00	4.954E+01	0.4271	0.00	2	1.000E-01	4.963E+01	0.4271	0.00
3	3.000E-01	4.982E+01	0.4271	0.00	4	6.000E-01	5.009E+01	0.4270	0.00
5	1.100E+00	5.056E+01	0.4270	0.00	6	2.000E+00	5.142E+01	0.4269	0.00
7	3.500E+00	5.292E+01	0.4267	0.00	8	6.500E+00	5.614E+01	0.4264	0.00
9	1.150E+01	6.229E+01	0.4257	0.00	10	1.900E+01	7.383E+01	0.4244	0.00
11	2.400E+01	8.354E+01	0.4233	0.00	12	2.700E+01	9.038E+01	0.4226	0.00
13	2.850E+01	9.413E+01	0.4222	0.00	14	2.940E+01	9.650E+01	0.4219	0.00
15	2.990E+01	9.785E+01	0.4218	0.00	16	3.020E+01	9.868E+01	0.4217	0.00
17	3.040E+01	9.924E+01	0.4216	0.00	18	3.050E+01	9.952E+01	0.4216	0.00
19	3.060E+01	9.951E+01	0.4216	0.00	20	3.080E+01	9.935E+01	0.4216	0.00
21	3.110E+01	9.911E+01	0.4216	0.00	22	3.160E+01	9.870E+01	0.4217	0.00
23	3.250E+01	9.797E+01	0.4218	0.00	24	3.400E+01	9.675E+01	0.4219	0.00
25	3.700E+01	9.430E+01	0.4222	0.00	26	4.200E+01	9.017E+01	0.4226	0.00
27	4.950E+01	8.390E+01	0.4233	0.00	28	5.450E+01	7.967E+01	0.4238	0.00
29	5.750E+01	7.711E+01	0.4240	0.00	30	5.900E+01	7.582E+01	0.4242	0.00
31	5.990E+01	7.505E+01	0.4243	0.00	32	6.040E+01	7.462E+01	0.4243	0.00
33	6.070E+01	7.436E+01	0.4243	0.00	34	6.090E+01	7.419E+01	0.4244	0.00
35	6.100E+01	7.410E+01	0.4244	0.00	36	6.110E+01	7.404E+01	0.0574	0.00
37	6.130E+01	7.404E+01	0.0574	0.00	38	6.160E+01	7.404E+01	0.0574	0.00
39	6.210E+01	7.404E+01	0.0574	0.00	40	6.300E+01	7.404E+01	0.0574	0.00
41	6.450E+01	7.404E+01	0.0574	0.00	42	6.750E+01	7.404E+01	0.0574	0.00
43	7.250E+01	7.404E+01	0.0574	0.00	44	8.250E+01	7.404E+01	0.0574	0.00
45	1.025E+02	7.404E+01	0.0574	0.00	46	1.425E+02	7.402E+01	0.0574	0.00
47	2.225E+02	7.405E+01	0.0574	0.00	48	3.725E+02	7.400E+01	0.0575	0.00
49	5.925E+02	7.409E+01	0.0574	0.00	50	9.295E+02	7.401E+01	0.0575	0.00
51	1.267E+03	7.409E+01	0.0574	0.00	52	1.487E+03	7.402E+01	0.0575	0.00
53	1.637E+03	7.411E+01	0.0574	0.00	54	1.717E+03	7.390E+01	0.0575	0.00
55	1.757E+03	7.547E+01	0.0567	0.00	56	1.777E+03	8.101E+01	0.0542	0.00
57	1.787E+03	8.997E+01	0.0508	0.00	58	1.792E+03	1.003E+02	0.0476	0.00
59	1.795E+03	1.125E+02	0.0446	0.00	60	1.796E+03	1.231E+02	0.0425	0.00
61	1.797E+03	1.327E+02	0.0408	0.00	62	1.797E+03	1.400E+02	0.0397	0.00
63	1.798E+03	1.455E+02	0.0390	0.00	64	1.798E+03	1.498E+02	0.0384	0.00
65	1.798E+03	1.522E+02	0.0381	0.00	66	1.798E+03	1.548E+02	0.0378	0.00
67	1.798E+03	1.550E+02	0.4158	0.00	68	1.798E+03	1.548E+02	0.4158	0.00
69	1.799E+03	1.546E+02	0.4158	0.00	70	1.799E+03	1.543E+02	0.4158	0.00
71	1.800E+03	1.539E+02	0.4159	0.00	72	1.801E+03	1.532E+02	0.4159	0.00
73	1.802E+03	1.522E+02	0.4160	0.00	74	1.804E+03	1.511E+02	0.4162	0.00
75	1.808E+03	1.483E+02	0.4164	0.00	76	1.814E+03	1.442E+02	0.4169	0.00
77	1.824E+03	1.372E+02	0.4176	0.00	78	1.833E+03	1.307E+02	0.4183	0.00
79	1.843E+03	1.233E+02	0.4190	0.00	80	1.849E+03	1.187E+02	0.4195	0.00
81	1.853E+03	1.157E+02	0.4198	0.00	82	1.855E+03	1.144E+02	0.4200	0.00
83	1.856E+03	1.132E+02	0.4201	0.00	84	1.857E+03	1.124E+02	0.4202	0.00
85	1.858E+03	1.119E+02	0.4203	0.00	86	1.859E+03	1.115E+02	0.4203	0.00
87	1.859E+03	1.113E+02	0.4203	0.00	88	1.859E+03	1.111E+02	0.4203	0.00
89	1.859E+03	1.110E+02	0.4203	0.00	90	1.859E+03	1.110E+02	0.0404	0.00
91	1.859E+03	1.110E+02	0.0404	0.00	92	1.860E+03	1.110E+02	0.0404	0.00
93	1.860E+03	1.110E+02	0.0404	0.00	94	1.861E+03	1.110E+02	0.0404	0.00
95	1.862E+03	1.110E+02	0.0404	0.00	96	1.863E+03	1.110E+02	0.0404	0.00
97	1.865E+03	1.110E+02	0.0404	0.00	98	1.868E+03	1.110E+02	0.0404	0.00
99	1.872E+03	1.110E+02	0.0404	0.00	100	1.878E+03	1.110E+02	0.0404	0.00
101	1.888E+03	1.110E+02	0.0404	0.00	102	1.903E+03	1.110E+02	0.0404	0.00
103	1.921E+03	1.110E+02	0.0404	0.00	104	1.942E+03	1.110E+02	0.0404	0.00
105	1.966E+03	1.110E+02	0.0404	0.00	106	1.990E+03	1.110E+02	0.0404	0.00
107	2.014E+03	1.110E+02	0.0404	0.00	108	2.038E+03	1.110E+02	0.0404	0.00
109	2.065E+03	1.109E+02	0.0404	0.00	110	2.089E+03	1.107E+02	0.0405	0.00
111	2.113E+03	1.100E+02	0.0407	0.00	112	2.137E+03	1.071E+02	0.0415	0.00
113	2.161E+03	9.836E+01	0.0445	0.00	114	2.185E+03	8.135E+01	0.0525	0.00
115	2.206E+03	6.200E+01	0.0684	0.00	116	2.224E+03	4.427E+01	0.0980	0.00
117	2.239E+03	2.930E+01	0.1524	0.00	118	2.249E+03	1.930E+01	0.2210	0.00
119	2.255E+03	1.330E+01	0.2752	0.00	120	2.259E+03	9.300E+00	0.3089	0.00
121	2.262E+03	6.300E+00	0.3273	0.00	122	2.264E+03	4.300E+00	0.3350	0.00
123	2.265E+03	2.800E+00	0.3383	0.00	124	2.266E+03	1.800E+00	0.3394	0.00
125	2.267E+03	1.100E+00	0.3398	0.00	126	2.267E+03	6.000E-01	0.3400	0.00
127	2.268E+03	3.000E-01	0.3400	0.00	128	2.268E+03	1.000E-01	0.3400	0.00
129	2.268E+03	0.000E+00	0.3400	0.00					

Initial Water Storage = 176.5836 cm

DAILY SUMMARY: Day = 1, Simulated Time = 24.0000 hr

Node Number = 1
Depth (cm) = 0.00000
Water (cm3/cm3) = 0.42708
Head (cm) = 4.95421E+01
Water Flow (cm) = 6.50000E-04
PRESTOR INFIL RUNOFF EVAPO TRANS DRAIN NEWSTOR STORAGE
176.5836+ 0.0007+ 0.0000 - 0.0000- 0.0000- 0.0006 =176.5836 Versus 176.5836
Mass Balance = -5.6843E-14 cm; Time step attempts = 388 and successes = 388

DAILY SUMMARY: Day = 365, Simulated Time = 24.0000 hr

Node Number = 1
Depth (cm) = 0.00000
Water (cm3/cm3) = 0.42708
Head (cm) = 4.95421E+01
Water Flow (cm) = 6.50000E-04
PRESTOR INFIL RUNOFF EVAPO TRANS DRAIN NEWSTOR STORAGE
176.5838+ 0.0007+ 0.0000 - 0.0000- 0.0000- 0.0006 =176.5838 Versus 176.5838
Mass Balance = 5.6843E-14 cm; Time step attempts = 160 and successes = 160
1

UNSAT-H Version 2.05
SIMULATION SUMMARY

Title:
T6E_21.INP: CAW Cell Unsat flow, 6" Type-B Filter, 57' Waste, 0.237 cm/yr infil

Transpiration Scheme is: = 0
Potential Evapotranspiration = 0.0000E+00 [cm]
Potential Transpiration = 0.0000E+00 [cm]
Actual Transpiration = 0.0000E+00 [cm]
Potential Evaporation = 0.0000E+00 [cm]
Actual Evaporation = 0.0000E+00 [cm]
Evaporation during Growth = 0.0000E+00 [cm]
Total Runoff = 0.0000E+00 [cm]
Total Infiltration = 2.3725E-01 [cm]
Total Drainage at Base of Profile = 2.3713E-01 [cm]
Total Applied Water = 2.3725E-01 [cm]
Actual Rainfall = 2.3725E-01 [cm]
Actual Irrigation = 0.0000E+00 [cm]
Total Final Moisture Storage = 1.7658E+02 [cm]
Mass Balance Error = 2.0464E-12 [cm]
Total Successful Time Steps = 58628
Total Attempted Time Steps = 58628
Total Time Step Reductions (DHMAX) = 0
Total Changes in Surface Boundary = 0
Total Time Actually Simulated = 3.6500E+02 [days]
Total water flow (cm) across different depths at the end of 3.6500E+02 days:

DEPTH	FLOW	DEPTH	FLOW	DEPTH	FLOW
0.000	2.3725E-01	0.050	2.3725E-01	0.200	2.3725E-01
0.450	2.3725E-01	0.850	2.3725E-01	1.550	2.3725E-01
2.750	2.3725E-01	5.000	2.3725E-01	9.000	2.3725E-01
15.250	2.3725E-01	21.500	2.3725E-01	25.500	2.3725E-01
27.750	2.3725E-01	28.950	2.3725E-01	29.650	2.3725E-01
30.050	2.3725E-01	30.300	2.3725E-01	30.450	2.3725E-01
30.550	2.3725E-01	30.700	2.3725E-01	30.950	2.3725E-01
31.350	2.3725E-01	32.050	2.3725E-01	33.250	2.3725E-01
35.500	2.3725E-01	39.500	2.3725E-01	45.750	2.3725E-01
52.000	2.3725E-01	56.000	2.3725E-01	58.250	2.3725E-01
59.450	2.3725E-01	60.150	2.3725E-01	60.550	2.3725E-01
60.800	2.3725E-01	60.950	2.3725E-01	61.050	2.3725E-01
61.200	2.3725E-01	61.450	2.3725E-01	61.850	2.3725E-01
62.550	2.3725E-01	63.750	2.3725E-01	66.000	2.3725E-01
70.000	2.3725E-01	77.500	2.3725E-01	92.500	2.3725E-01
122.500	2.3725E-01	182.500	2.3732E-01	297.500	2.3732E-01
482.500	2.3725E-01	761.000	2.3706E-01	1098.000	2.3719E-01
1376.500	2.3699E-01	1561.500	2.3705E-01	1676.500	2.3712E-01
1736.500	2.3716E-01	1766.500	2.3717E-01	1781.500	2.3718E-01
1789.000	2.3718E-01	1793.000	2.3719E-01	1795.250	2.3719E-01
1796.450	2.3719E-01	1797.150	2.3719E-01	1797.550	2.3719E-01
1797.800	2.3719E-01	1797.950	2.3719E-01	1798.050	2.3719E-01
1798.150	2.3719E-01	1798.300	2.3719E-01	1798.550	2.3719E-01
1798.950	2.3719E-01	1799.550	2.3719E-01	1800.400	2.3719E-01
1801.650	2.3719E-01	1803.250	2.3719E-01	1806.100	2.3719E-01
1811.100	2.3719E-01	1819.100	2.3719E-01	1828.600	2.3719E-01
1838.100	2.3719E-01	1846.100	2.3719E-01	1851.100	2.3719E-01
1853.950	2.3719E-01	1855.550	2.3719E-01	1856.800	2.3719E-01
1857.650	2.3719E-01	1858.250	2.3719E-01	1858.650	2.3719E-01

1858.900	2.3719E-01	1859.050	2.3719E-01	1859.150	2.3719E-01
1859.300	2.3719E-01	1859.550	2.3719E-01	1859.950	2.3719E-01
1860.550	2.3719E-01	1861.400	2.3719E-01	1862.650	2.3719E-01
1864.400	2.3719E-01	1866.900	2.3720E-01	1870.400	2.3720E-01
1875.400	2.3720E-01	1883.400	2.3720E-01	1895.900	2.3720E-01
1912.400	2.3720E-01	1931.900	2.3720E-01	1954.400	2.3720E-01
1978.400	2.3720E-01	2002.400	2.3719E-01	2026.400	2.3719E-01
2051.450	2.3718E-01	2076.500	2.3717E-01	2100.500	2.3716E-01
2124.500	2.3715E-01	2148.500	2.3714E-01	2172.500	2.3713E-01
2195.000	2.3713E-01	2214.500	2.3713E-01	2231.000	2.3713E-01
2243.500	2.3713E-01	2251.500	2.3713E-01	2256.500	2.3713E-01
2260.000	2.3713E-01	2262.500	2.3713E-01	2264.250	2.3713E-01
2265.500	2.3713E-01	2266.350	2.3713E-01	2266.950	2.3713E-01
2267.350	2.3713E-01	2267.600	2.3713E-01	2267.750	2.3713E-01
2267.800	2.3713E-01				

UNSAT-H Version 2.05

INITIAL CONDITIONS

Input Filename: C:\Users\Whetstonel\Documents\4101K-CAW\UnsatH\2010\s6e_08.in
 Results Filename: C:\Users\Whetstonel\Documents\4101K-CAW\UnsatH\2010\s6e_08.re
 Date of Run: 28 Mar 2011
 Time of Run: 18:46:07.07
 Title:
 S6E_08.INP: CAW Cell Unsat flow, 12" Type-B Filter, 19' Waste, 0.335 cm/yr infi

Initial Conditions					Initial Conditions				
NODE	DEPTH (cm)	HEAD (cm)	THETA (vol.)	TEMP (K)	NODE	DEPTH (cm)	HEAD (cm)	THETA (vol.)	TEMP (K)
1	0.000E+00	3.154E+01	0.4290	0.00	2	1.000E-01	3.163E+01	0.4290	0.00
3	3.000E-01	3.182E+01	0.4290	0.00	4	6.000E-01	3.210E+01	0.4290	0.00
5	1.100E+00	3.258E+01	0.4289	0.00	6	2.000E+00	3.347E+01	0.4288	0.00
7	3.500E+00	3.502E+01	0.4287	0.00	8	6.500E+00	3.845E+01	0.4283	0.00
9	1.150E+01	4.524E+01	0.4276	0.00	10	1.900E+01	5.879E+01	0.4261	0.00
11	2.400E+01	7.094E+01	0.4247	0.00	12	2.700E+01	7.990E+01	0.4237	0.00
13	2.850E+01	8.497E+01	0.4232	0.00	14	2.940E+01	8.822E+01	0.4228	0.00
15	2.990E+01	9.011E+01	0.4226	0.00	16	3.020E+01	9.127E+01	0.4225	0.00
17	3.040E+01	9.205E+01	0.4224	0.00	18	3.050E+01	9.245E+01	0.4224	0.00
19	3.060E+01	9.246E+01	0.4224	0.00	20	3.080E+01	9.231E+01	0.4224	0.00
21	3.110E+01	9.208E+01	0.4224	0.00	22	3.160E+01	9.170E+01	0.4224	0.00
23	3.250E+01	9.102E+01	0.4225	0.00	24	3.400E+01	8.989E+01	0.4226	0.00
25	3.700E+01	8.760E+01	0.4229	0.00	26	4.200E+01	8.374E+01	0.4233	0.00
27	4.950E+01	7.785E+01	0.4240	0.00	28	5.450E+01	7.385E+01	0.4244	0.00
29	5.750E+01	7.143E+01	0.4247	0.00	30	5.900E+01	7.021E+01	0.4248	0.00
31	5.990E+01	6.947E+01	0.4249	0.00	32	6.040E+01	6.907E+01	0.4249	0.00
33	6.070E+01	6.882E+01	0.4250	0.00	34	6.090E+01	6.866E+01	0.4250	0.00
35	6.100E+01	6.857E+01	0.4250	0.00	36	6.110E+01	6.852E+01	0.0605	0.00
37	6.130E+01	6.852E+01	0.0605	0.00	38	6.160E+01	6.852E+01	0.0605	0.00
39	6.210E+01	6.852E+01	0.0605	0.00	40	6.300E+01	6.852E+01	0.0605	0.00
41	6.450E+01	6.852E+01	0.0605	0.00	42	6.750E+01	6.852E+01	0.0605	0.00
43	7.250E+01	6.852E+01	0.0605	0.00	44	8.250E+01	6.852E+01	0.0605	0.00
45	1.025E+02	6.852E+01	0.0605	0.00	46	1.425E+02	6.851E+01	0.0605	0.00
47	2.225E+02	6.854E+01	0.0604	0.00	48	3.505E+02	6.846E+01	0.0605	0.00
49	4.785E+02	6.856E+01	0.0604	0.00	50	5.585E+02	6.838E+01	0.0605	0.00
51	5.985E+02	6.950E+01	0.0599	0.00	52	6.185E+02	7.418E+01	0.0574	0.00
53	6.285E+02	8.211E+01	0.0538	0.00	54	6.335E+02	9.147E+01	0.0503	0.00
55	6.365E+02	1.027E+02	0.0470	0.00	56	6.380E+02	1.126E+02	0.0446	0.00
57	6.389E+02	1.218E+02	0.0427	0.00	58	6.394E+02	1.288E+02	0.0415	0.00
59	6.397E+02	1.341E+02	0.0406	0.00	60	6.399E+02	1.384E+02	0.0400	0.00
61	6.400E+02	1.407E+02	0.0396	0.00	62	6.401E+02	1.433E+02	0.0393	0.00
63	6.402E+02	1.435E+02	0.4169	0.00	64	6.404E+02	1.434E+02	0.4169	0.00
65	6.407E+02	1.432E+02	0.4170	0.00	66	6.412E+02	1.430E+02	0.4170	0.00
67	6.419E+02	1.426E+02	0.4170	0.00	68	6.429E+02	1.420E+02	0.4171	0.00
69	6.444E+02	1.411E+02	0.4172	0.00	70	6.461E+02	1.401E+02	0.4173	0.00
71	6.501E+02	1.378E+02	0.4175	0.00	72	6.561E+02	1.342E+02	0.4179	0.00
73	6.661E+02	1.280E+02	0.4185	0.00	74	6.751E+02	1.223E+02	0.4191	0.00
75	6.851E+02	1.156E+02	0.4199	0.00	76	6.911E+02	1.115E+02	0.4203	0.00
77	6.951E+02	1.087E+02	0.4206	0.00	78	6.968E+02	1.075E+02	0.4207	0.00
79	6.983E+02	1.065E+02	0.4208	0.00	80	6.993E+02	1.058E+02	0.4209	0.00
81	7.000E+02	1.053E+02	0.4210	0.00	82	7.005E+02	1.049E+02	0.4210	0.00
83	7.008E+02	1.047E+02	0.4210	0.00	84	7.010E+02	1.046E+02	0.4210	0.00
85	7.011E+02	1.045E+02	0.4210	0.00	86	7.012E+02	1.045E+02	0.0424	0.00
87	7.014E+02	1.045E+02	0.0424	0.00	88	7.017E+02	1.045E+02	0.0424	0.00
89	7.022E+02	1.045E+02	0.0424	0.00	90	7.029E+02	1.045E+02	0.0424	0.00
91	7.039E+02	1.045E+02	0.0424	0.00	92	7.054E+02	1.045E+02	0.0424	0.00
93	7.074E+02	1.045E+02	0.0424	0.00	94	7.104E+02	1.045E+02	0.0424	0.00
95	7.144E+02	1.045E+02	0.0424	0.00	96	7.204E+02	1.045E+02	0.0424	0.00
97	7.304E+02	1.045E+02	0.0424	0.00	98	7.454E+02	1.045E+02	0.0424	0.00
99	7.634E+02	1.045E+02	0.0424	0.00	100	7.844E+02	1.045E+02	0.0424	0.00
101	8.084E+02	1.045E+02	0.0424	0.00	102	8.324E+02	1.045E+02	0.0424	0.00
103	8.564E+02	1.045E+02	0.0424	0.00	104	8.804E+02	1.045E+02	0.0424	0.00
105	9.065E+02	1.044E+02	0.0424	0.00	106	9.305E+02	1.044E+02	0.0424	0.00
107	9.545E+02	1.040E+02	0.0425	0.00	108	9.785E+02	1.022E+02	0.0431	0.00
109	1.003E+03	9.572E+01	0.0455	0.00	110	1.027E+03	8.062E+01	0.0529	0.00
111	1.048E+03	6.188E+01	0.0685	0.00	112	1.066E+03	4.425E+01	0.0980	0.00
113	1.081E+03	2.929E+01	0.1524	0.00	114	1.091E+03	1.930E+01	0.2210	0.00
115	1.097E+03	1.330E+01	0.2752	0.00	116	1.101E+03	9.300E+00	0.3089	0.00
117	1.104E+03	6.300E+00	0.3273	0.00	118	1.106E+03	4.300E+00	0.3350	0.00
119	1.107E+03	2.800E+00	0.3383	0.00	120	1.108E+03	1.800E+00	0.3394	0.00
121	1.109E+03	1.100E+00	0.3398	0.00	122	1.109E+03	6.000E-01	0.3400	0.00
123	1.110E+03	3.000E-01	0.3400	0.00	124	1.110E+03	1.000E-01	0.3400	0.00
125	1.110E+03	0.000E+00	0.3400	0.00					

Initial Water Storage = 112.5319 cm

DAILY SUMMARY: Day = 1, Simulated Time = 24.0000 hr

```

-----
Node Number      =      1
Depth (cm)      =      0.00000
Water (cm3/cm3) =      0.42903
Head (cm)       =      3.15363E+01
Water Flow (cm) =      9.20000E-04
PRESTOR  INFIL  RUNOFF  EVAPO  TRANS  DRAIN  NEWSTOR  STORAGE
112.5319+ 0.0009+ 0.0000 - 0.0000- 0.0000- 0.0009 =112.5319 Versus 112.5319
Mass Balance = -1.4211E-13 cm; Time step attempts = 388 and successes = 388

```

DAILY SUMMARY: Day = 365, Simulated Time = 24.0000 hr

```

-----
Node Number      =      1
Depth (cm)      =      0.00000
Water (cm3/cm3) =      0.42903
Head (cm)       =      3.15363E+01
Water Flow (cm) =      9.20000E-04
PRESTOR  INFIL  RUNOFF  EVAPO  TRANS  DRAIN  NEWSTOR  STORAGE
112.5326+ 0.0009+ 0.0000 - 0.0000- 0.0000- 0.0009 =112.5326 Versus 112.5326
Mass Balance = 1.4211E-14 cm; Time step attempts = 160 and successes = 160

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UNSAT-H Version 2.05
SIMULATION SUMMARY

Title:
S6E_08.INP: CAW Cell Unsat flow, 12" Type-B Filter, 19' Waste, 0.335 cm/yr infi

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-----
Transpiration Scheme is:      =      0
Potential Evapotranspiration = 0.0000E+00 [cm]
Potential Transpiration      = 0.0000E+00 [cm]
Actual Transpiration          = 0.0000E+00 [cm]
Potential Evaporation         = 0.0000E+00 [cm]
Actual Evaporation            = 0.0000E+00 [cm]
Evaporation during Growth    = 0.0000E+00 [cm]
Total Runoff                  = 0.0000E+00 [cm]
Total Infiltration           = 3.3580E-01 [cm]
Total Drainage at Base of Profile = 3.3518E-01 [cm]
Total Applied Water          = 3.3580E-01 [cm]
Actual Rainfall               = 3.3580E-01 [cm]
Actual Irrigation             = 0.0000E+00 [cm]
Total Final Moisture Storage = 1.1253E+02 [cm]
Mass Balance Error           = -1.4580E-11 [cm]
Total Successful Time Steps   =      58628
Total Attempted Time Steps    =      58628
Total Time Step Reductions (DHMAX) =      0
Total Changes in Surface Boundary =      0
Total Time Actually Simulated = 3.6500E+02 [days]
Total water flow (cm) across different depths at the end of 3.6500E+02 days:

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DEPTH	FLOW	DEPTH	FLOW	DEPTH	FLOW
0.000	3.3580E-01	0.050	3.3580E-01	0.200	3.3580E-01
0.450	3.3580E-01	0.850	3.3580E-01	1.550	3.3580E-01
2.750	3.3580E-01	5.000	3.3580E-01	9.000	3.3580E-01
15.250	3.3580E-01	21.500	3.3580E-01	25.500	3.3580E-01
27.750	3.3580E-01	28.950	3.3580E-01	29.650	3.3580E-01
30.050	3.3580E-01	30.300	3.3580E-01	30.450	3.3580E-01
30.550	3.3580E-01	30.700	3.3580E-01	30.950	3.3580E-01
31.350	3.3580E-01	32.050	3.3580E-01	33.250	3.3580E-01
35.500	3.3580E-01	39.500	3.3580E-01	45.750	3.3580E-01
52.000	3.3580E-01	56.000	3.3580E-01	58.250	3.3580E-01
59.450	3.3580E-01	60.150	3.3580E-01	60.550	3.3580E-01
60.800	3.3580E-01	60.950	3.3580E-01	61.050	3.3580E-01
61.200	3.3580E-01	61.450	3.3580E-01	61.850	3.3580E-01
62.550	3.3580E-01	63.750	3.3580E-01	66.000	3.3580E-01
70.000	3.3580E-01	77.500	3.3580E-01	92.500	3.3580E-01
122.500	3.3580E-01	182.500	3.3575E-01	286.500	3.3590E-01
414.500	3.3610E-01	518.500	3.3604E-01	578.500	3.3593E-01
608.500	3.3587E-01	623.500	3.3583E-01	631.000	3.3582E-01
635.000	3.3581E-01	637.250	3.3580E-01	638.450	3.3580E-01
639.150	3.3580E-01	639.550	3.3580E-01	639.800	3.3580E-01
639.950	3.3580E-01	640.050	3.3580E-01	640.150	3.3580E-01
640.300	3.3580E-01	640.550	3.3580E-01	640.950	3.3580E-01
641.550	3.3580E-01	642.400	3.3580E-01	643.650	3.3580E-01
645.250	3.3579E-01	648.100	3.3579E-01	653.100	3.3579E-01
661.100	3.3578E-01	670.600	3.3577E-01	680.100	3.3577E-01
688.100	3.3576E-01	693.100	3.3576E-01	695.950	3.3576E-01
697.550	3.3576E-01	698.800	3.3576E-01	699.650	3.3576E-01
700.250	3.3576E-01	700.650	3.3576E-01	700.900	3.3576E-01
701.050	3.3576E-01	701.150	3.3576E-01	701.300	3.3575E-01
701.550	3.3575E-01	701.950	3.3575E-01	702.550	3.3575E-01
703.400	3.3575E-01	704.650	3.3575E-01	706.400	3.3575E-01

708.900	3.3574E-01	712.400	3.3574E-01	717.400	3.3573E-01
725.400	3.3572E-01	737.900	3.3570E-01	754.400	3.3567E-01
773.900	3.3564E-01	796.400	3.3561E-01	820.400	3.3557E-01
844.400	3.3554E-01	868.400	3.3551E-01	893.450	3.3547E-01
918.500	3.3542E-01	942.500	3.3538E-01	966.500	3.3532E-01
990.500	3.3525E-01	1014.500	3.3520E-01	1037.000	3.3518E-01
1056.500	3.3518E-01	1073.000	3.3518E-01	1085.500	3.3518E-01
1093.500	3.3518E-01	1098.500	3.3518E-01	1102.000	3.3518E-01
1104.500	3.3518E-01	1106.250	3.3518E-01	1107.500	3.3518E-01
1108.350	3.3518E-01	1108.950	3.3518E-01	1109.350	3.3518E-01
1109.600	3.3518E-01	1109.750	3.3518E-01	1109.800	3.3518E-01