TABLES

TABLE 1
Hydraulic Properties Summary
Proposed BBNPP Facility
Berwick, Pennsylvania

Observation Well ID	Test Type	Hydraulic Conductivity		Storage Coefficient, S	Specific Yield, Sy
		ft/day	cm/s	(unitless)	(unitless)
Glacial Overburden Pumping Test (Pumping Well = MW302A1)[1] (EL. 645 to 630)					
MW302A2	Pumping	1.10E+02	3.88E-02	NA	5.00E-01
	Recovery	1.67E+02	5.89E-02	NA	NA
MW302A3	Pumping	1.03E+02	3.63E-02	NA	2.53E-01
	Recovery	3.57E+02	1.26E-01	NA	NA
MW302A4	Pumping	1.13E+02	3.99E-02	NA	3.22E-01
	Recovery	2.92E+02	1.03E-01	NA	NA
Geometric Mean[2]		1.68E+02	5.92E-02	NA	3.44E-01
Median		1.40E+02	4.94E-02	NA	3.22E-01
Shallow Bedrock Pumping Test (Pumping Well = MW404)[3] (EL. 670 to 618)					
MW405	Pumping	3.45E+00	1.22E-03	2.60E-04	NA
	Recovery	1.75E+00	6.17E-04	1.84E-04	NA
MW407	Pumping	3.25E+00	1.15E-03	1.15E-04	NA
	Recovery	2.42E+00	8.54E-04	2.14E-04	NA
Shallow Bedrock Pumping Test (Pumping Well = MW405)[3] (EL. 670 to 618)					
MW404	Pumping	2.45E+00	8.64E-04	2.88E-04	NA
	Recovery	2.78E-01	9.81E-05	1.43E-04	NA
MW407	Pumping	1.47E+00	5.19E-04	2.33E-04	NA
	Recovery	6.59E-01	2.32E-04	1.91E-04	NA
Shallow Bedrock Pumping Test (Pumping Well = MW407)[3] (EL. 670 to 620)					
MW404	Pumping	2.53E+00	8.93E-04	1.79E-04	NA
	Recovery	1.08E+00	3.81E-04	1.76E-04	NA
MW409	Pumping	1.64E+00	5.79E-04	7.27E-06	NA
	Recovery	1.26E+00	4.45E-04	6.42E-06	NA
Geometric Mean[2]		1.54E+00	5.43E-04	1.10E-04	NA
Median		1.64E+00	5.79E-04	1.79E-04	NA
Deep Bedrock Pumping Test (Pumping Well = MW301B1)[1] (EL. 582 to 502)					
MW301B2	Pumping	2.38E-01	8.40E-05	8.37E-05	NA
	Recovery	2.51E+00	8.85E-04	5.50E-04	NA
MW301B3	Pumping	2.58E-01	9.10E-05	5.37E-05	NA
	Recovery	2.05E+00	7.23E-04	2.52E-04	NA
MW301B4	Pumping	5.46E-02	1.93E-05	1.25E-05	NA
	Recovery	5.77E-01	2.04E-04	7.41E-05	NA
Geometric Mean[2]		4.64E-01	1.64E-04	9.12E-05	NA
Median		4.18E-01	1.48E-04	7.89E-05	NA

- Design value for non-safety related temporary construction dewatering.

(1) - Reference 9, Table 2.4-54.

(2) - Hydraulic conductivities measured by pump test are horizontal (K_h). Vertical (K_v) is considered to be $K_h/10$.

(3) - Reference 13, Table 4.

TABLE 2

Head Observations Used in Dewatering Evaluation

Proposed BBNPP Facility

Berwick, Pennsylvania

Well ID	Easting (ft)	Northing (ft)	Head on 5/6-7/2010 (ft) (NAVD88)	Head on 05/20/2010 (ft) (NAVD88)	Head on 06/29/2010 (ft) (NAVD88)	Head on 07/27/2010 (ft) (NAVD88)	Head on 08/24/2010 (ft) (NAVD88)	Head on 09/14/2010 (ft) (NAVD88)	Head on 10/15/2010 (ft) (NAVD88)	Head on 11/24/2010 (ft) (NAVD88)	Head on 12/14/2010 (ft) (NAVD88)	Head on 01/13/2011 (ft) (NAVD88)	Head on 02/22/2011 (ft) (NAVD88)	Head on 03/21/2011 (ft) (NAVD88)	Head on 04/20/2011 (ft) (NAVD88)	12 Month Observed Maximum Calibration Target (ft) (NAVD88)
Overburden Aquifer																
MW301A	2,405,396.73	339,097.64	656.81	NM	NM	654.77	654.37	653.90	654.98	655.36	656.63	655.82	656.63	659.21	660.36	660.36
MW302A1	2,406,939.74	339,410.17	660.24	NM	658.47	657.67	657.15	656.86	657.56	657.97	659.61	658.82	659.32	663.73	665.04	665.04
MW302A2	2,406,925.67	339,410.07	660.22	NM	658.44	657.65	657.11	656.84	657.53	657.95	659.58	658.79	659.29	663.69	665.01	665.01
MW302A3	2,406,899.92	339,410.16	660.14	NM	658.38	657.58	657.06	656.77	657.46	657.88	659.50	658.72	659.22	663.61	664.94	664.94
MW302A4	2,406,939.42	339,495.31	660.27	NM	658.49	657.70	657.17	656.89	657.58	658.00	659.57	658.84	659.33	663.74	665.07	665.07
MW303A	2,405,505.31	341,504.72	713.99	NM	713.22	712.68	712.46	712.12	713.76	714.02	715.07	713.82	715.34	716.41	721.17	721.17
MW304A	2,408,455.38	340,228.16	670.45	NM	668.92	668.16	667.75	667.16	668.18	668.51	669.50	669.13	669.81	671.98	672.81	672.81
MW305A1	2,407,090.85	341,896.43	706.02	NM	704.50	704.02	703.73	703.29	704.20	704.40	705.26	704.78	705.80	708.39	710.33	710.33
MW305A2	2,407,096.81	341,888.61	705.57	NM	704.24	703.76	703.57	703.15	704.05	704.23	705.00	704.54	705.45	707.40	708.89	708.89
MW306A	2,404,351.67	338,899.63	655.05	NM	653.98	653.59	653.48	653.06	654.28	654.65	655.73	654.57	655.65	657.41	658.37	658.37
MW307A	2,407,085.99	337,632.51	684.69	NM	682.22	680.55	679.40	678.72	683.01	684.58	685.34	682.81	685.48	685.19	686.37	686.37 (1)
MW308A	2,405,979.80	338,355.50	655.69	NM	654.45	653.88	653.70	653.13	654.60	655.00	656.02	655.08	656.04	657.19	658.19	658.19
MW309A	2,408,989.20	338,707.94	667.44	NM	665.33	664.47	664.00	662.13	665.62	666.70	669.12	667.37	669.53	671.14	672.31	672.31
MW310A	2,405,156.30	339,453.78	657.83	NM	NM	655.86	655.57	655.54	655.73	656.84	658.20	657.21	658.50	661.05	662.65	662.65
MW410	2,406,412.50	339,662.11	NM	658.91	657.55	656.58	655.95	655.66	656.46	656.91	658.69	657.93	658.44	662.44	663.91	663.91

(1) - MW-307A in different basin, omitted. MW318B likely a perched condition, omitted. MW311C is non-responsive, omitted.

(2) - Flowing artesian groundwater condition. Groundwater elevation considered equal to top of PVC riser pipe.

NM = No measurement taken.

NA = Groundwater elevation not available - groundwater frozen at top of PVC riser pipe.

* = Value is considered anomolous. Value is not used for identification of calibration target.

TABLE 2
Head Observations Used in Dewatering Evaluation
Proposed BBNPP Facility
Berwick, Pennsylvania

Well ID	Easting (ft)	Northing (ft)	Head on 5/6-7/2010 (ft) (NAVD88)	Head on 05/20/2010 (ft) (NAVD88)	Head on 06/29/2010 (ft) (NAVD88)	Head on 07/27/2010 (ft) (NAVD88)	Head on 08/24/2010 (ft) (NAVD88)	Head on 09/14/2010 (ft) (NAVD88)	Head on 10/15/2010 (ft) (NAVD88)	Head on 11/24/2010 (ft) (NAVD88)	Head on 12/14/2010 (ft) (NAVD88)	Head on 01/13/2011 (ft) (NAVD88)	Head on 02/22/2011 (ft) (NAVD88)	Head on 03/21/2011 (ft) (NAVD88)	Head on 04/20/2011 (ft) (NAVD88)	12 Month Observed Maximum Calibration Target (ft) (NAVD88)
Shallow Bedrock Aquifer																
MW301B1	2,405,384.28	339,098.94	659.05	NM	NM	656.99	656.72	656.30	657.48	657.91	659.23	658.07	659.30	661.35	662.78	662.78
MW301B2	2,405,338.53	339,142.99	656.83	NM	655.50	654.78	654.42	653.89	654.98	655.36	656.62	655.79	656.60	659.18	660.42	660.42
MW301B3	2,405,288.63	339,069.30	656.38	NM	654.94	654.58	654.28	653.79	654.88	655.23	656.39	655.56	656.38	658.62	659.76	659.76
MW301B4	2,405,444.97	338,987.79	652.90	NM	NM	654.94	654.66	654.16	655.37	655.76	656.99	656.09	656.98	658.99	660.01	660.01
MW303B	2,405,493.42	341,504.61	716.94	NM	715.85	715.28	715.07	714.54	716.81	717.67	719.23	716.57	720.19	720.64	724.03	724.03
MW304B	2,408,443.45	340,245.01	669.58	NM	668.55	667.48	667.42	666.77	668.05	668.37	669.26	668.59	669.62	671.41	672.29	672.29
MW305B	2,407,108.09	341,880.51	705.48	NM	704.20	703.71	703.55	703.15	704.05	704.19	704.85	704.47	705.42	707.21	708.90	708.90
MW308B	2,405,969.62	338,356.71	606.77	NM	607.24	610.66	611.96	612.84	614.26	615.85	616.74	617.89	619.42	620.54	621.66	621.66
MW309B	2,408,999.09	338,708.71	665.17	NM	663.52	662.79	662.54	661.84	664.09	664.25	665.81	664.29	665.25	666.28	667.28	667.28
MW310B	2,405,176.41	339,454.71	668.54	NM	667.17	666.40	665.96	665.61	666.68	667.25	669.01	667.94	669.63	671.72	673.84	673.84
MW311B	2,405,252.94	339,328.29	658.25	NM	NM	656.02	655.58	655.24	656.03	656.40	658.06	657.18	658.18	661.24	662.79	662.79
MW312B	2,405,297.70	338,820.62	655.77	NM	654.65	654.11	653.89	653.36	654.56	654.95	655.94	655.11	655.94	657.45	658.35	658.35
MW313B	2,405,815.58	338,927.92	656.89	NM	655.55	654.84	654.49	654.01	655.18	655.59	656.87	656.01	656.83	659.10	(2)	659.10
MW313C	2,405,754.79	338,922.54	656.84	NM	655.54	654.84	654.53	654.03	655.14	655.60	657.01	655.91	656.92	658.82	(2)	658.82
MW315B	2,406,234.46	340,738.30	717.15	NM	715.42	714.83	714.37	714.02	714.31	714.61	716.33	716.24	717.22	719.78	719.39	719.78
MW316B	2,406,433.93	340,298.18	696.68	NM	692.84	691.55	690.62	690.07	691.68	692.12	695.45	694.67	696.54	699.20	699.62	699.62
MW317B	2,406,401.48	339,772.49	659.47	NM	657.79	656.92	656.37	656.08	656.83	657.23	658.91	658.17	658.66	662.63	664.06	664.06
MW318B	2,405,516.32	340,493.18	757.47	NM	754.66	751.35	751.07	750.64	754.74	755.02	760.41	756.36	763.04	761.25	764.51	764.51 (1)
MW319B	2,405,528.14	340,239.46	715.26	NM	709.51	707.11	705.54	704.48	704.24	704.81	712.16	711.21	715.26	720.54	724.11	724.11
MW401	2,405,097.68	340,753.25	NM	696.70	693.78	692.47	691.58	691.05	691.54	692.61	694.55	694.76	694.87	700.10	702.22	702.22
MW402	2,405,855.94	340,870.66	NM	720.59	719.54	718.79	718.29	717.96	719.72	720.49	723.02	721.11	724.30	724.74	726.40	726.40
MW403	2,405,542.37	340,579.28	NM	700.27	699.08	696.65	695.64	694.74	696.25	696.85	699.80	698.56	700.94	703.52	705.26	705.26
MW404	2,404,985.30	340,170.50	NM	700.16	696.92	695.55	694.70	693.96	695.89	696.93	700.75	699.35	702.62	705.30	709.46	709.46
MW405	2,404,646.35	339,970.47	NM	680.51	680.08	679.99	680.08	679.49	680.30	680.67	681.84	680.77	682.34	682.16	682.99	682.99
MW406	2,404,789.81	339,710.35	NM	669.70	668.99	668.36	668.09	667.79	668.98	669.64	671.46	670.47	672.25	674.08	676.33	676.33
MW407	2,405,144.25	339,784.93	NM	697.34	693.99	692.59	691.81	691.14	692.84	693.74	696.90	695.66	698.47	700.79	704.40	704.40
MW408	2,405,819.88	340,342.30	NM	705.86	703.68	702.25	701.18	700.36	700.99	701.82	705.30	704.96	743.18*	709.89	712.03	712.03
MW409	2,405,905.35	339,760.65	NM	696.92	693.64	692.23	691.40	690.73	692.47	693.31	696.32	695.04	661.66	699.93	703.30	703.30
Deep Bedrock Aquifer																
MW301C	2,405,430.68	339,151.79	667.28	NM	665.47	664.49	664.06	663.75	664.84	665.36	666.99	666.17	666.79	(2)	(2)	667.28
MW302B	2,406,954.17	339,409.88	666.95	NM	665.19	664.42	664.16	663.52	665.48	666.12	667.10	665.52	667.22	(2)	(2)	667.22
MW303C	2,405,483.36	341,503.54	698.39	NM	698.59	697.65	697.74	697.35	698.87	699.61	700.98	699.33	701.39	703.19	705.22	705.22
MW304C	2,408,449.59	340,236.49	670.45	NM	669.26	668.23	667.82	667.54	668.94	669.17	670.09	669.64	670.12	671.94	672.26	672.26
MW306C	2,404,353.48	338,889.03	657.42	NM	656.40	655.84	655.60	655.26	656.54	656.96	657.95	656.95	657.55	659.51	659.91	659.91
MW307B	2,407,096.69	337,632.75	625.42	NM	616.57	613.54	611.69	610.89	613.45	614.31	620.25	618.54	618.69	644.40	641.84	644.40
MW310C	2,405,233.06	339,452.09	678.35	NM	678.35	678.35	(2)	683.06	(2)	684.53	678.37	NA	NA	NM	(2)	684.53
MW311C	2,405,413.69	339,313.21	597.64	NM	600.54	601.99	603.44	604.45	606.11	608.92	611.42	612.95	614.90	616.25	617.67	617.67 (1)

(1) - MW-307A in different basin, omitted. MW318B likely a perched condition, omitted. MW311C is non-responsive, omitted.
(2) - Flowing artesian groundwater condition. Groundwater elevation considered equal to top of PVC riser pipe.
NM = No measurement taken.
NA = Groundwater elevation not available - groundwater frozen at top of PVC riser pipe.
* = Value is considered anomolous. Value is not used for identification of calibration target.

TABLE 3
Mahantango Shale Formation Elevation
Proposed BBNPP Facility
Berwick, Pennsylvania

Boring I.D.	X (Easting)	Y (Northing)	Top of Shale Formation El. (ft) (NAVD88)
B-301	2,405,430.7	339,151.8	625.4 (1)
B-302	2,405,420.6	339,243.1	640.3 (1)
B-303	2,405,338.5	339,143.0	637.7 (1)
B-304	2,405,438.6	339,060.2	617.8 (1)
B-305	2,405,520.6	339,160.2	623.3 (1)
B-306	2,405,413.7	339,313.2	649.1 (1)
B-307	2,405,276.1	339,193.3	638.5 (1)
B-308	2,405,288.6	339,069.3	623.4 (1)
B-309	2,405,333.7	338,998.8	614.6 (1)
B-310	2,405,445.0	338,987.8	607.5 (1)
B-311	2,405,592.5	339,099.7	615.4 (1)
B-312	2,405,582.0	339,230.1	634.3 (1)
B-313	2,405,379.3	338,917.2	602.7 (1)
B-314	2,405,288.2	338,916.5	596.3 (1)
B-315	2,405,297.7	338,820.6	596.9 (1)
B-316	2,405,513.4	338,882.2	602.8 (1)
B-317	2,405,571.7	338,888.1	601.6 (1)
B-318	2,405,520.5	339,436.1	645.3 (1)
B-319	2,405,462.4	339,429.9	644.0 (1)
B-320	2,405,516.0	340,491.8	611.3 (1)
B-321	2,405,830.2	338,752.7	616.7 (1)
B-322	2,405,754.8	338,922.5	596.2 (1)
B-323	2,405,815.6	338,927.9	599.2 (1)
B-324	2,405,191.0	339,323.7	648.5 (1)
B-325	2,405,252.9	339,328.3	648.0 (1)
B-326	2,405,176.4	339,454.7	653.8 (1)
B-327	2,405,233.1	339,452.1	654.9 (1)
B-328	2,405,699.7	339,176.8	609.6 (1)
B-329	2,405,802.7	339,189.6	608.5 (1)
B-330	2,405,916.0	339,200.6	607.7 (1)
B-331	2,406,407.0	339,872.7	642.7 (1)
B-332	2,406,874.3	339,907.3	642.6 (1)
B-333	2,406,421.4	339,667.3	644.3 (1)
B-334	2,406,888.5	339,700.6	625.3 (1)
B-335	2,405,475.6	340,767.3	774.7 (1)
B-336	2,405,516.3	340,492.2	771.3 (1)
B-337	2,405,528.1	340,239.5	771.6 (1)
B-338	2,406,234.5	340,738.3	697.3 (1)

TABLE 3, Continued
Mahantango Shale Formation Elevation
Proposed BBNPP Facility
Berwick, Pennsylvania

Boring I.D.	X (Easting)	Y (Northing)	Top of Shale Formation El. (ft) (NAVD88)
B-339	2,406,149.5	340,480.0	692.7 [1]
B-340	2,406,433.9	340,298.2	689.9 [1]
B-341	2,406,458.8	339,825.7	631.3 [1]
B-342	2,406,467.5	339,721.5	640.2 [1]
B-343	2,406,467.5	339,772.5	632.8 [1]
B-344	2,406,301.5	339,762.0	641.1 [1]
B-345	2,406,203.7	339,746.4	663.0 [1]
G-301	2,405,430.7	339,151.8	626.8 [1]
G-302	2,405,219.0	339,297.6	647.3 [1]
G-303	2,405,865.5	338,699.0	616.7 [1]
B-401	2,405,131.3	340,123.5	728.2 [2]
B-402	2,405,121.8	340,214.8	746.8 [2]
B-403	2,405,041.4	340,114.6	717.7 [2]
B-404	2,405,137.0	340,031.7	726.7 [2]
B-405	2,405,221.4	340,131.9	746.6 [2]
B-406	2,405,115.5	340,287.0	760.9 [2]
B-407	2,404,971.7	340,169.2	708.7 [2]
B-408	2,404,983.0	340,045.1	703.4 [2]
B-409	2,405,035.7	339,978.7	717.6 [2]
B-410	2,405,145.9	339,957.9	727.4 [2]
B-411	2,405,273.9	339,979.5	743.7 [2]
B-412	2,405,294.5	340,068.4	741.4 [2]
B-413	2,405,283.0	340,208.1	763.2 [2]
B-414	2,404,983.5	339,887.7	713.8 [2]
B-415	2,405,086.0	339,896.9	724.1 [2]
B-416	2,404,992.4	339,788.7	703.9 [2]
B-417	2,405,095.5	339,799.3	714.7 [2]
B-418	2,405,203.4	339,853.4	724.0 [2]
B-419	2,405,278.2	339,860.4	724.4 [2]
B-420	2,405,150.7	340,403.2	763.3 [2]
B-421	2,405,228.9	340,410.5	768.5 [2]
B-422	2,405,472.5	339,721.4	712.6 [2]
B-423	2,405,533.8	339,727.1	711.0 [2]

TABLE 3, Concluded
Mahantango Shale Formation Elevation
Proposed BBNPP Facility
Berwick, Pennsylvania

Boring I.D.	X (Easting)	Y (Northing)	Top of Shale Formation El. (ft) (NAVD88)
B-424	2,405,458.5	339,869.0	722.0 (2)
B-425	2,405,519.4	339,874.3	721.0 (2)
B-426	2,404,892.7	340,296.2	725.2 (2)
B-427	2,404,955.0	340,301.4	740.3 (2)
B-428	2,404,878.1	340,444.2	732.4 (2)
B-429	2,404,939.6	340,449.2	736.2 (2)
B-430	2,405,389.9	340,147.0	753.6 (2)
B-431	2,405,519.4	340,160.6	762.9 (2)
B-432	2,405,665.6	340,173.5	761.5 (2)
B-433	2,405,380.5	340,485.7	766.3 (2)
B-434	2,404,822.9	339,642.0	693.2 (2)
B-435	2,406,056.3	339,687.6	675.2 (2)
B-436	2,406,180.7	339,698.7	649.0 (2)
B-437	2,406,305.3	339,709.7	647.4 (2)
B-438	2,406,429.6	339,721.4	640.0 (2)
B-439	2,406,541.8	339,757.1	634.6 (2)
B-440	2,406,546.2	339,706.7	625.0 (2)
B-441	2,407,095.2	339,619.8	611.1 (2)
B-442	2,406,579.0	339,570.7	633.0 (2)
B-443	2,405,090.2	341,137.5	693.2 (2)
B-444	2,405,751.3	341,108.6	758.2 (2)
MW301A	2,405,396.7	339,097.6	626.0
MW301A1	2,406,939.7	339,410.2	630.0
MW303A	2,405,505.3	341,505.7	706.1
MW304A	2,408,455.4	340,228.2	643.6
MW305A2	2,407,096.8	341,888.6	631.6
MW306A	2,404,351.7	338,899.6	624.5
MW307A	2,407,086.0	337,632.5	651.6
MW308A	2,405,979.8	338,355.5	627.9
MW309A	2,408,989.2	338,707.9	652.4
MW310A	2,405,156.3	339,453.8	653.5
MW-401	2,405,097.7	340,753.3	764.5 (2)
MW-402	2,405,855.9	340,870.7	755.2 (2)
MW-403	2,405,542.4	340,579.3	741.9 (2)
MW-404	2,404,985.3	340,170.5	702.0 (2)
MW-405	2,404,646.4	339,970.5	653.8 (2)
MW-406	2,404,789.8	339,710.4	692.5 (2)
MW-407	2,405,144.3	339,784.9	719.7 (2)
MW-408	2,405,819.9	340,342.3	756.0 (2)
MW-409	2,405,905.4	339,760.7	713.4 (2)

(1) - Reference 10.
(2) - From Weaver Boos review of Reference 3.

TABLE 4
Summary of Baseline Flow Model Inputs
Proposed BBNPP Facility
Berwick, Pennsylvania

Description of Input Values	Value	Units
General Data		
Title:	BBNPPBaseline0.vmf	
Number of layers:	7	
Overburden is represented in model Layer 1		
Shallow bedrock is represented in model Layers 1 through 4		
Deep bedrock is represented in model Layers 2 through 7		
Approximate area of model domain:	1.8	mi^2
Boundary Conditions		
Top Boundary Type:	Recharge	
Default basin recharge rate (all cells unless otherwise specified):	14.2	in/year
Transition areas from lowland to upland:	21.8	in/year
Upland areas:	29.0	in/year
Horizontal Boundaries:		
Basin is encompassed by no-flow boundaries in all layers:	Inactive	n/a
Constant head north of Power Block in Layers 2 through 7 (bedrock inflow from high upland):	700 to 720	ft msl
Constant head south and east of ESWEMS Pond in Layers 4 through 7 (deep bedrock outflow):	621 to 695	ft msl
General Head to far south (outflow to Susquehanna River):	480	ft msl
Rivers (Walker Run and tributary) within model domain:		
Stage based on USGS map and field measurements:	variable	ft msl
Bottom depth below stage:	2	ft
Bottom thickness:	1	ft
Bottom conductivity:	3.53E-04	cm/s
Bottom Boundary at base of Layer 7 - No Flow:	Inactive	n/a
Formation Properties		
Overburden Aquifer Soil (Layer 1 only)		
Thickness (south of Power Block and beneath ESWEMS Pond, variable elsewhere):	~60	ft
Horizontal Conductivity:	5.9E-02	cm/s
Vertical Conductivity:	5.9E-03	cm/s
Specific Storage:	2.00E-06	1/ft
Specific Yield (0.322 used in manual calculations):	0.322	N/A
Effective Porosity:	0.322	
Total Porosity:	0.322	
Shallow Bedrock (Layers 1 through 4)		
Thickness (beneath Power Block and other uplands, variable elsewhere):	~200	ft
Horizontal Conductivity:	5.43E-04	cm/s
Vertical Conductivity:	5.43E-05	cm/s
Specific Storage:	2.00E-06	1/ft
Specific Yield:	0.01	
Effective Porosity:	0.1	
Total Porosity:	0.1	
Deep Bedrock (Layers 2 through 7)		
Thickness (beneath Power Block and elsewhere):	~600	ft
Horizontal Conductivity:	1.64E-04	cm/s
Vertical Conductivity:	1.64E-05	cm/s
Specific Storage:	2.00E-06	
Specific Yield:	0.01	
Effective Porosity:	0.1	
Total Porosity:	0.1	

TABLE 5

Steady State Groundwater Flow Model Mass Budgets

Proposed BBNPP Facility

Berwick, Pennsylvania

MODEL SCENARIO	Flows to Aquifer (ft^3/day)		Flows to Aquifer (ft^3/s)		Flows to Aquifer (gpm)	
BASELINE FLOW MODEL	**IN**	**OUT**	**IN**	**OUT**	**IN**	**OUT**
Constant Head Boundary	181,950	129,774	2.1	1.5	950	670
River Leakage	124,455	169,047	1.4	2.0	650	880
Head Dependent Boundary	0.0	217,971	0.0	2.5	0.0	1,130
Recharge	218,152	0.0	2.5	0.0	1,130	0.0
Totals	524,557	516,792	6.1	6.0	2,720	2,680

DEWATERING WITHOUT FLOW BARRIER AT ESWEMS	IN	OUT	IN	OUT	IN	OUT
Constant Head Boundary	232,523	75,290	2.7	0.87	1,210	390
Power Block Excavation Drains	0.0	9,749	0.0	0.11	0.0	50
Cooling Towers Excavation Drains	0.0	13,880	0.0	0.16	0.0	70
ESWEMS Excavation Drains	0.0	48,165	0.0	0.56	0.0	250
ESWEMS Excavation Dewatering Wells (28 wells)	0.0	129,140	0.0	1.5	0.0	670
Subtotal Dewatering Outflows						**1,040**
River Leakage	164,679	150,389	1.9	1.7	860	780
Head Dependent Boundary	0.0	217,503	0.0	2.5	0.0	1,130
Recharge	218,140	0.0	2.5	0.0	1,130	0.0
Totals[(1)]	615,341	644,117	7.1	7.5	3,200	3,350

DEWATERING WITH FLOW BARRIER AT ESWEMS	IN	OUT	IN	OUT	IN	OUT
Constant Head Boundary	199,158	121,964	2.3	1.4	1,030	630
Power Block Excavation Drains	0.0	9,749	0.0	0.11	0.0	50
Cooling Towers Excavation Drains	0.0	13,880	0.0	0.16	0.0	70
ESWEMS Excavation Drains	0.0	30,310	0.0	0.35	0.0	160
ESWEMS Excavation Dewatering Wells (14 wells)	0.0	13,462	0.0	0.16	0.0	70
Subtotal Dewatering Outflows						**350**
River Leakage	137,510	154,932	1.6	1.8	710	800
Head Dependent Boundary	0.0	217,753	0.0	2.5	0.0	1,130
Recharge	218,152	0.0	2.5	0.0	1,130	0.0
Totals[(1)]	554,821	562,051	6.4	6.5	2,880	2,920

(1) Totals vary slightly from overall budget because drain and dewatering outflows are reported from the zone-specific mass budgets used to separately estimate flows from the power block, cooling towers, and ESWEMS dewatering systems.

Notes:

Constant Head Boundary - Represents inflows to the model domain originating in the bedrock ridge to the north and deep outflows to southeast.

Drains - Represent trench drains in exposed bedrock surface, used in all excavations, and well point lines in overburden at the ESWEMS pond.

Dewatering wells are used only at the ESWEMS pond excavation to drain high-conductivity overburden aquifer.

River Leakage - Represents exchanges of water between Walker Run and the Aquifer.

Head Dependent Boundary - Represents outflow from the southern edge of the model domain to the Susquehanna River.

Recharge - Represents recharge to groundwater at 14.2 to 29 in. per year over the 1.8 mi^2 model domain.

APPENDIX A

Hydrological and Geological Data

UniStar NUCLEAR	REQUEST FOR INFORMATION (RFI)

Project: ☐ CCNPP3 ☒ BBNPP ☐ NMP3 ☐ Callaway	
UNE RFI Number:	Vendor RFI Number (if applicable): SL-BBNPP-163
Originator Organization: ☐ UNE ☐ AREVA ☐ Bechtel ☐ Rizzo ☒ S&L ☐ Other (specify):	
Originator: Daniel Kocunik	Originator Phone Number: 312-269-6572
COLA Parts Affected (if known): ☒ FSAR ☐ ER ☐ EP ☐ TS ☐ ITAAC ☐ Other (specify): 2.5.4	
Sections Affected (if known): FSAR section 2.5.4	
Requested Information: Provide the 12 month monitoring well groundwater data (Rizzo Activity BBPP020412140A). This information is required to update the need for and extent of construction dewatering. (BBPP020504128).	
Date Originated: 8/11/2010	Date Required (if known): 5/12/2011
UNE Point of Contact:	
Response Provided By: ☐ UNE ☐ AREVA ☐ Bechtel ☒ Rizzo ☐ S&L ☐ Other (specify):	
Response Document: Please see the attached RIZZO Letter.	
Date Response Provided: 5/19/11	
Reviewer Name/Organization (if applicable): J.P. Giunta / RIZZO	Date 5/19/11
Reviewer Name/Organization (if applicable): Jeff Schubert / RIZZO	Date 5/19/11
Reviewer Name/Organization (if applicable): William Kline / UNE (see attached)	Date 5/23/11
Released for Use:	Date 5/25/11
Date Response Forwarded to Requestor: 5/25/11	

Turner, Shountee

From: Kline, William
Sent: Monday, May 23, 2011 8:40 AM
To: UNE RFI Correspondence
Subject: RE: RIZZO Response to RFI SL-BBNPP-153 - Please provide Engineering Review

Hi Shountee,

I do not have any technical comments on Rizzo's response to RFI SL-BBNPP-153. You can process and send out to S&L.

Bill

From: Turner, Shountee On Behalf Of UNE RFI Correspondence
Sent: Friday, May 20, 2011 10:32 AM
To: Kline, William
Subject: RIZZO Response to RFI SL-BBNPP-153 - Please provide Engineering Review

Hi Bill,

Can you please provide Engineering Review of the response from RIZZO to the S&L RFI. Thank you

Thank you

Shountee Turner
Licensing Technician
Unistar Nuclear Energy
750 E Pratt Street 16th Fl
Baltimore, MD 21202
410-470-6315 wk
443-207-2250 cell
Shountee.Turner@UnistarNuclear.com

From: John Paul Giunta [mailto:JohnPaul.Giunta@rizzoassoc.com]
Sent: Thursday, May 19, 2011 5:37 PM
To: UNE RFI Correspondence; Turner, Shountee; Geier, Stephen E; Sullivan, David; Rayburn, Chuck
Cc: Robyn Gray
Subject: RIZZO Response to RFI SL-BBNPP-153

Please see the RIZZO response to RFI SL-BBNPP-153 located at the following location on the ftp site due to file size.

/data/sftp/UniStar1/BBNPP Documents for Approval/RFIs/RIZZO/RFI SL-BBNPP-153 Response

If you have any questions, please let me know.

Thanks,

JP

ENGINEERS / CONSULTANTS / CM
Paul C. Rizzo Associates, Inc.
500 Penn Center Boulevard • Penn Center East, Building 5, Suite 100 • Pittsburgh, PA 15235
Phone (412) 856-9700 • Fax (412) 856-9749
www.rizzoassoc.com

May 19, 2011
Project No. 10-4310
Letter 152

Mr. Steve Geier
UniStar Nuclear Development LLC
750 Pratt Street, 16th Floor
Baltimore, MD 21202

TRANSMITTAL
RESPONSE TO RFI SL-BBNPP-153
TWELVE MONTH MONITORING WELL TEST DATA
BELL BEND NUCLEAR POWER PLANT

Dear Mr. Geier:

Paul C. Rizzo Associates, Inc. (RIZZO) has prepared and summarized monitoring well test data as requested by RFI SL-BBNPP-153. This transmittal contains information and data related to the 12 months (May 2010 through April 2011) of hydrologic monitoring at the Bell Bend Nuclear Power Plant (BBNPP) Site.

This transmittal contains the most up to date information and supersedes the submittals dated August 6, 2010 (RIZZO Letter L44), August 24, 2010 (RIZZO Letter L50), and November 3, 2010 (RIZZO Letter L78). All elevations are based on the North American Vertical Datum 1988 (NAVD88). This transmittal contains both figures (***Attachment A***) and tables (***Attachment B***).

Attachment A contains the following specific information:

- Groundwater Monitoring Well Locations (***Figure 1***)
- Surface Water Monitoring Locations (***Figure 2***)
- North-South Geologic Cross Section (***Figure 3***)
- East-West Geologic Cross Section (***Figure 4***)
- Potentiometric Surface Map – Glacial Outwash Aquifer, Jun. 2010 (***Figure 5***)
- Potentiometric Surface Map – Shallow Bedrock Aquifer, Jun. 2010 (***Figure 6***)
- Potentiometric Surface Map – Deep Bedrock Aquifer, Jun. 2010 (***Figure 7***)
- Potentiometric Surface Map – Glacial Outwash Aquifer, Sept. 2010 (***Figure 8***)

- Potentiometric Surface Map – Shallow Bedrock Aquifer, Sept. 2010 (***Figure 9***)
- Potentiometric Surface Map – Deep Bedrock Aquifer, Sept. 2010 (***Figure 10***)
- Potentiometric Surface Map – Glacial Outwash Aquifer, Dec. 2010 (***Figure 11***)
- Potentiometric Surface Map – Shallow Bedrock Aquifer, Dec. 2010 (***Figure 12***)
- Potentiometric Surface Map – Deep Bedrock Aquifer, Dec. 2010 (***Figure 13***)
- Potentiometric Surface Map – Glacial Outwash Aquifer, Apr. 2011 (***Figure 14***)
- Potentiometric Surface Map – Shallow Bedrock Aquifer, Apr. 2011 (***Figure 15***)
- Potentiometric Surface Map – Deep Bedrock Aquifer, Apr. 2011 (***Figure 16***)

Attachment B contains the following specific information:

- Monitoring Well Construction Details (***Table 1***).
- Summary of Packer Test Result (***Table 2***). This table is based on the results of RIZZO Calculation "Packer Test Calculations," Calculation Number 10-4310.02 F-1.
- Summary of Slug Test Results (***Table 3***). This table is based on the results of RIZZO Calculation "Slug Test Analyses," Calculation Number 10-4310.02 F-2.
- Summary of Pumping Test Results (***Table 4***). This table is based on the results of RIZZO Calculation "Pumping Test Analyses," Calculation Number 10-4310.02 F-3.
- Monthly Groundwater Elevations, May 2010 through April 2011 (***Table 5***).
- Monthly Surface Water Elevations, May 2010 through April 2011 (***Table 6***).

If you have any questions or need additional information, please do not hesitate to call me at (412) 825-2090, or email me at jp.giunta@rizzoassoc.com.

Sincerely,
Paul C. Rizzo Associates, Inc.

John Paul Giunta, P.E.
Project Manager

JPG/sdr/amp

Attachments

ATTACHMENT A

LEGEND:

- 2007/2008 MONITORING WELL/WELL CLUSTER
- 2010 MONITORING WELL
- NPP BUILDING OR STRUCTURE

REFERENCES:

1. SARGENT AND LUNDY DRAWING TITLED, "REDUCED SCALE SUPP" FOR BELL BEND NUCLEAR POWER PLANT, UNISTAR NUCLEAR, PENNSYLVANIA; DRAWING NO. SK-12198-400-001; PROJECT NO. 12198-415. SCALE: 1"=600'
2. U.S.G.S. 7.5-MINUTE SERIES TOPOGRAPHIC MAP, BERWICK, PA QUADRANGLE. DATED 1955, PHOTOGRAVURE 1989.

SCALE
600 0 600 FEET

FIGURE 1

Location of
Groundwater Monitoring Wells

10-4310-CADD-B073

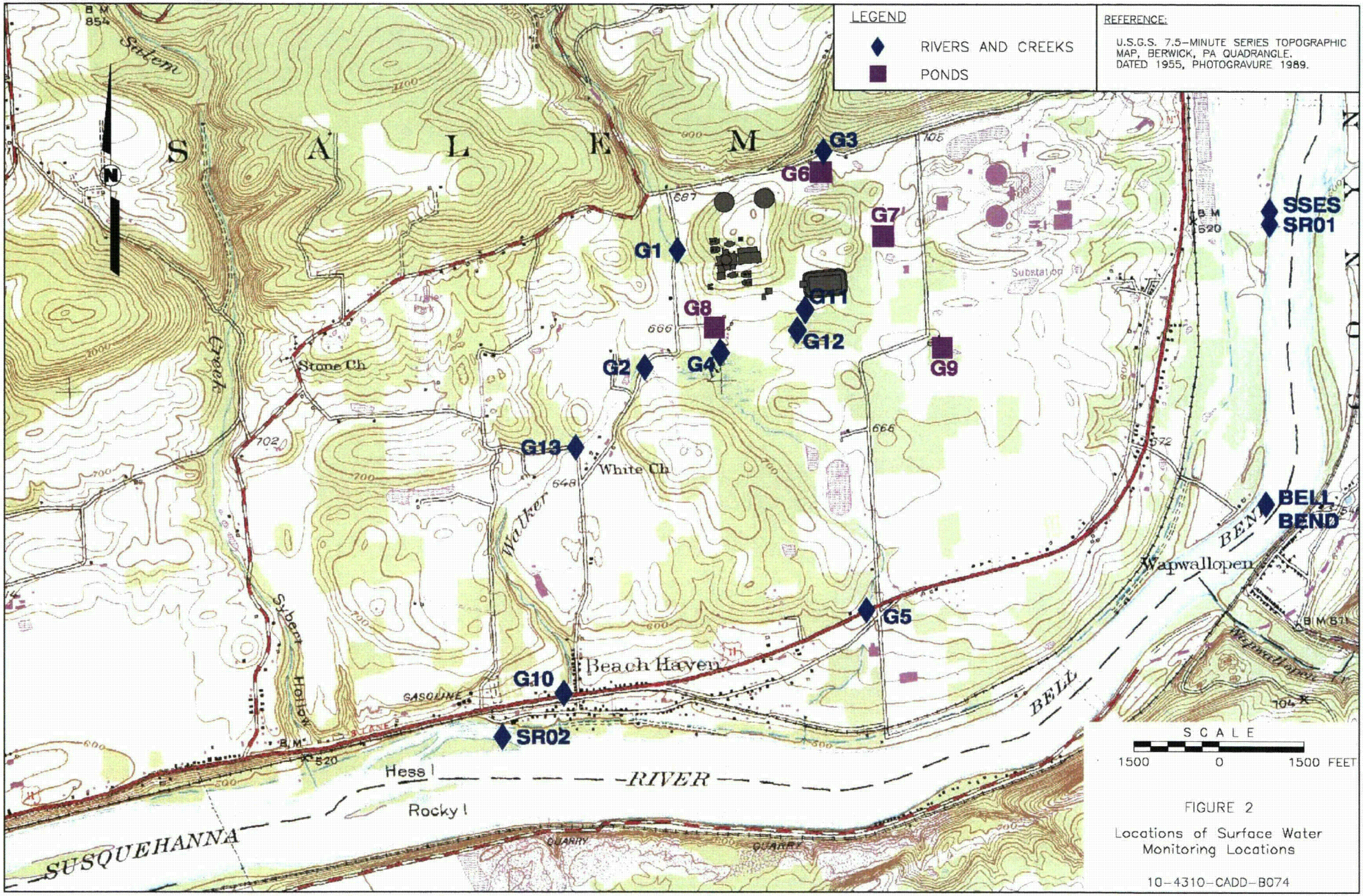
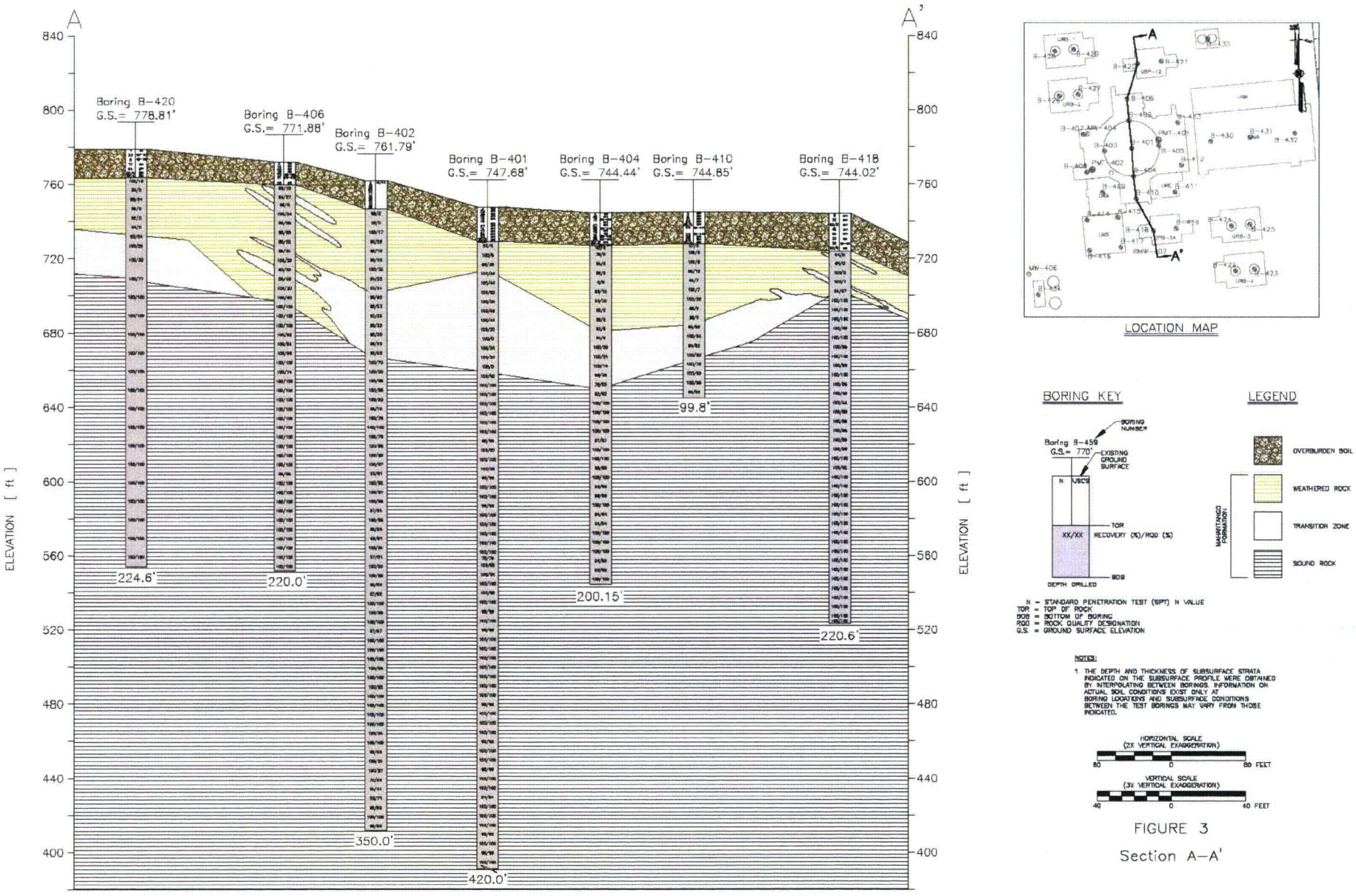


FIGURE 2

Locations of Surface Water Monitoring Locations

10-4310-CADD-B074



LOCATION MAP

BORING KEY

LEGEND

N = STANDARD PENETRATION TEST (SPT) N VALUE
TOR = TOP OF ROCK
BOB = BOTTOM OF BORING
RQD = ROCK QUALITY DESIGNATION
G.S. = GROUND SURFACE ELEVATION

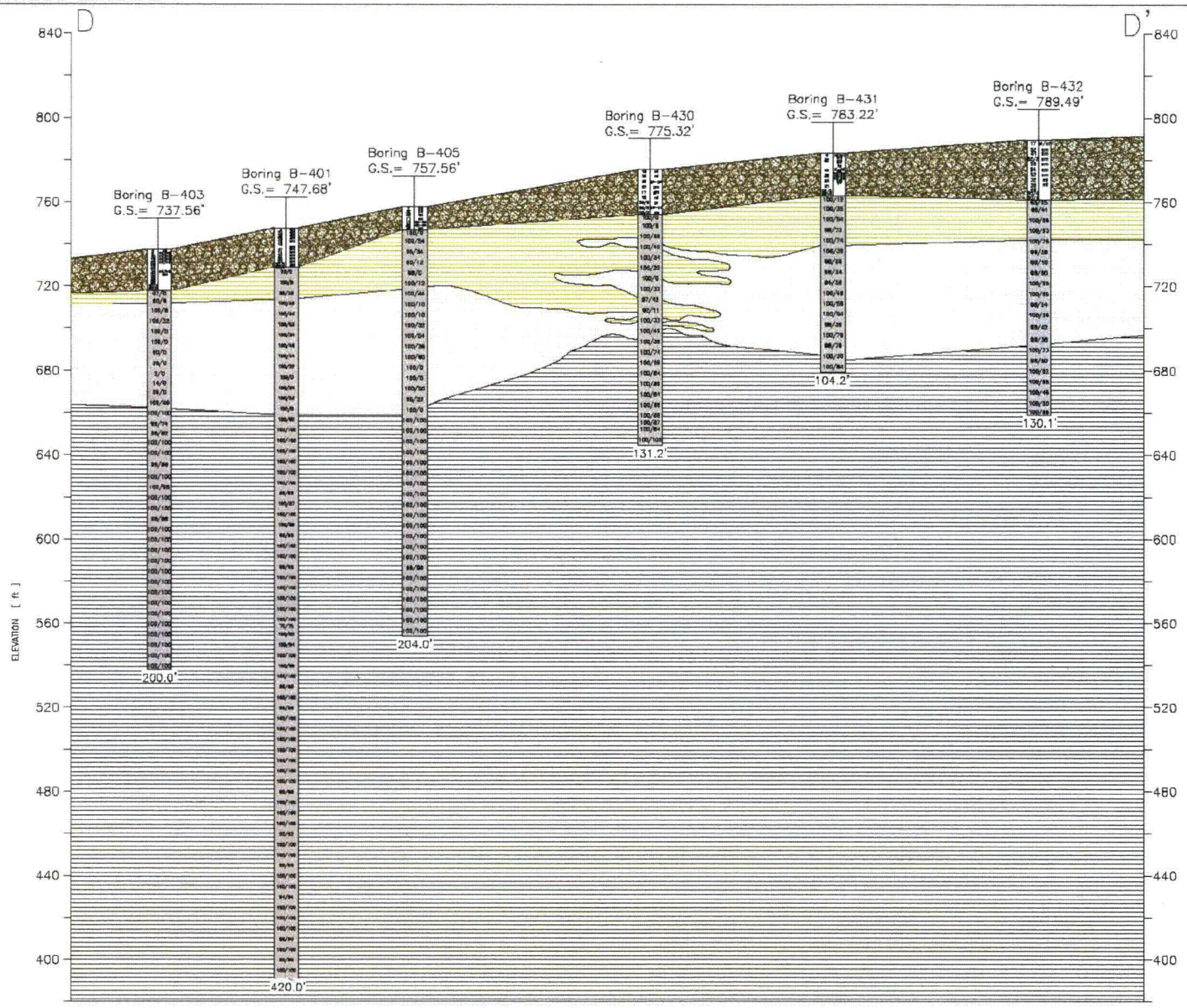
NOTES:

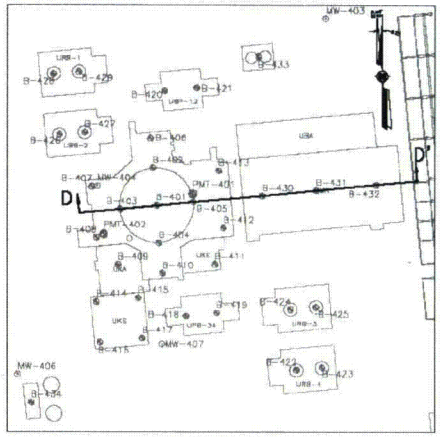
1. THE DEPTH AND THICKNESS OF SUBSURFACE STRATA INDICATED ON THE SUBSURFACE PROFILE WERE OBTAINED BY INTERPOLATING BETWEEN BORINGS. INFORMATION ON ACTUAL SOIL CONDITIONS EXIST ONLY AT BORING LOCATIONS AND SUBSURFACE CONDITIONS BETWEEN THE TEST BORINGS MAY VARY FROM THOSE INDICATED.

FIGURE 3

Section A–A'

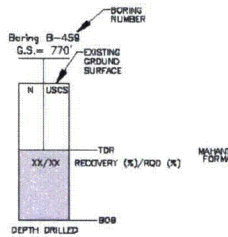
10–4310–CADD–B075



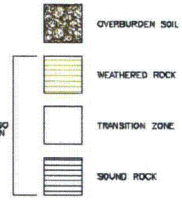


LOCATION MAP

BORING KEY



LEGEND



N = STANDARD PENETRATION TEST (SPT) N VALUE
TOR = TOP OF ROCK
BOB = BOTTOM OF BORING
RQD = ROCK QUALITY DESIGNATION
G.S. = GROUND SURFACE ELEVATION

NOTES:

1. THE DEPTH AND THICKNESS OF SUBSURFACE STRATA INDICATED ON THE SUBSURFACE PROFILE WERE OBTAINED BY INTERPOLATING BETWEEN BORINGS. INFORMATION ON ACTUAL SOIL CONDITIONS EXIST ONLY AT BORING LOCATIONS AND SUBSURFACE CONDITIONS BETWEEN THE TEST BORINGS MAY VARY FROM THOSE INDICATED.

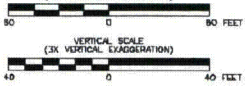
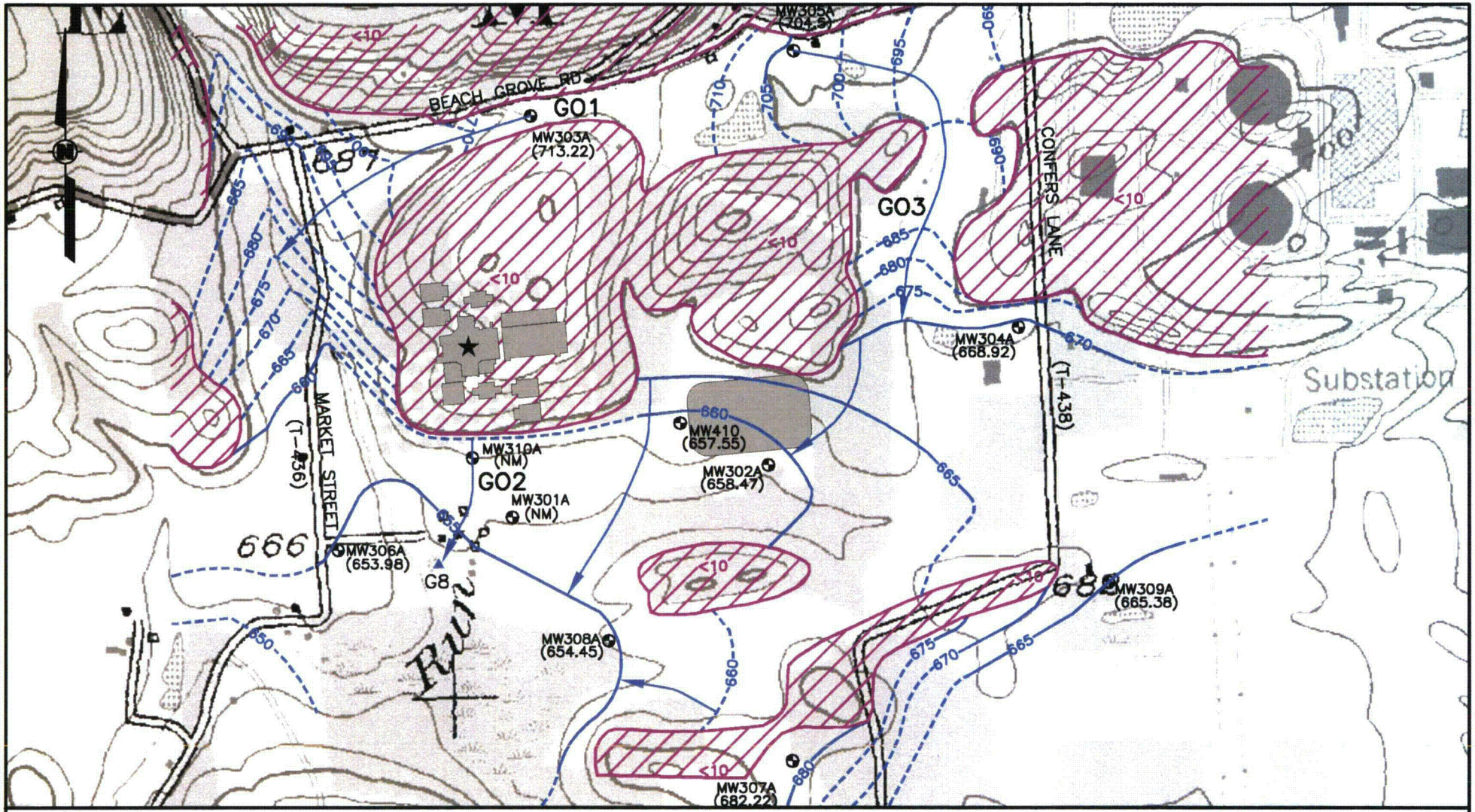


FIGURE 4

Section D-D'

10-4310-CADD-B076



Legend

- Monitoring Well
- Saturated Glacial Outwash Thin or Nonexistent
- Groundwater Potentiometric Contour (ft. NAVD88)
- Approximate Location of Potentiometric Contour (ft. NAVD88)
- Approximate Direction of Groundwater Flow
- G01 Flow Line in Glacial Outwash
- G8 ▲ Pond
- (656.66) Groundwater Elevation in feet NAVD88
- ★ BBNPP
- NPP Building or Structure

SCALE

800 0 800 FEET

SCALE

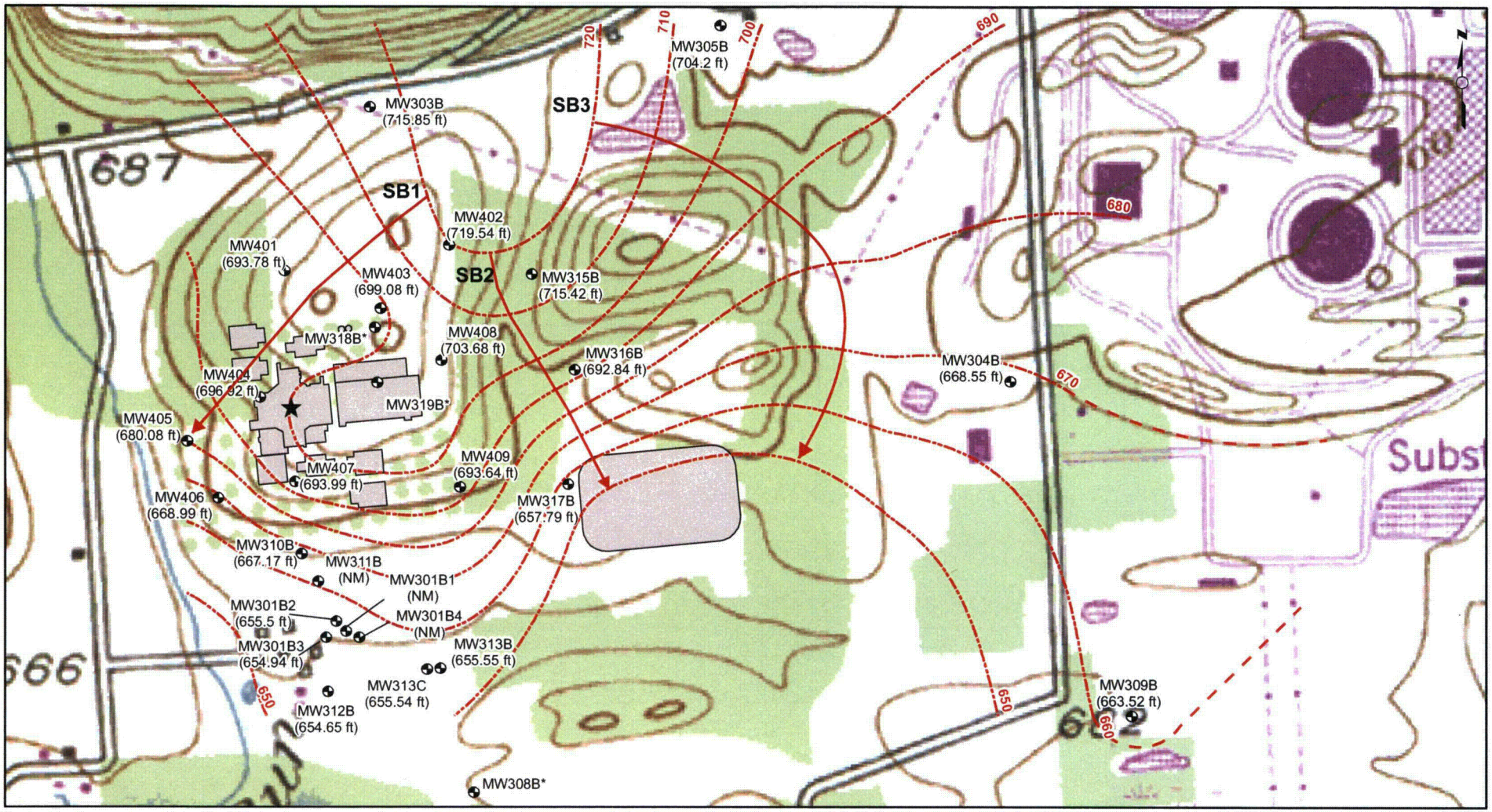
0 96 192 288 384 480

meters

FIGURE 5

Potentiometric Surface Map
of the Glacial Outwash Aquifer
June 2010

10-4310-CADD-A046



Legend

- Monitoring Well
- (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- 680 Approximate Location of Potentiometric Contour (elevation in feet NAVD88)
- Groundwater Flow Direction
- SB Flow Line in Shallow Bedrock
- ★ BBNPP
- NPP Building or Structures

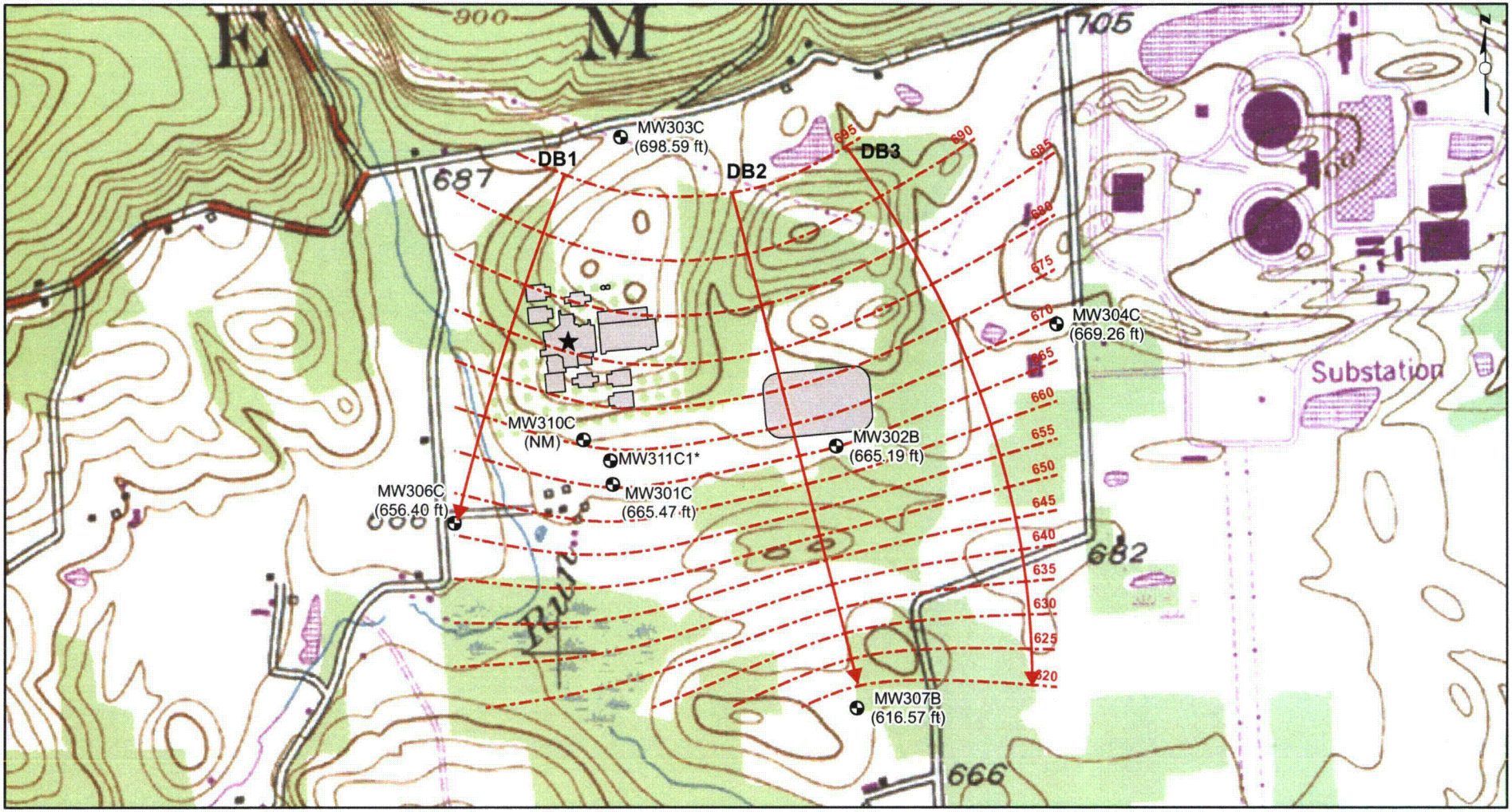
0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 6
Potentiometric Surface Map of the
Shallow Bedrock Aquifer, June 2010

10-4310-GIS-A304



Legend

- Monitoring Well
- (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- Groundwater Flow Direction
- DB Flow Line in Deep Bedrock
- BBNPP
- NPP Building or Structure

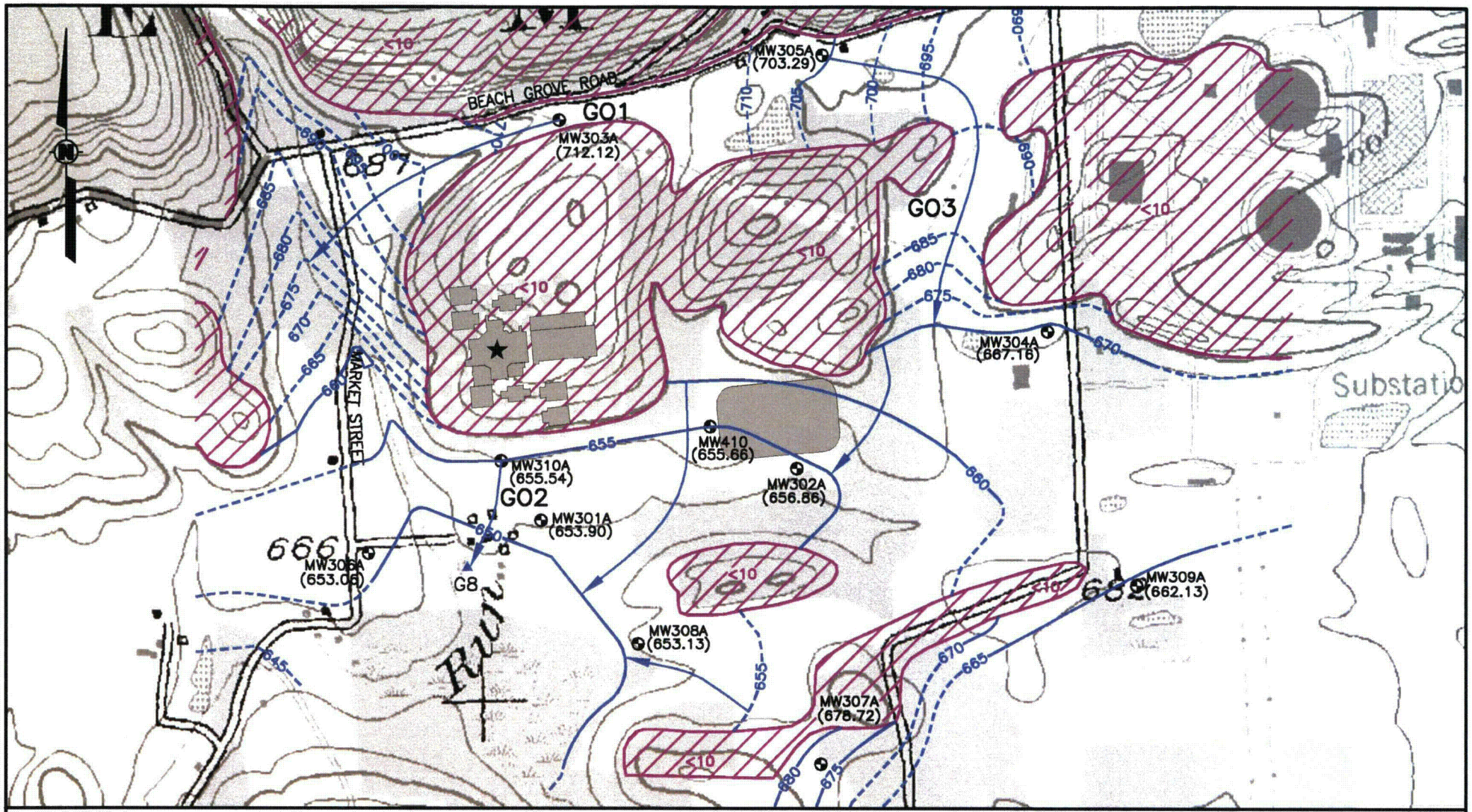
0 500 1,000 2,000 Feet

0 125 250 500 Meters

REFERENCE:
USGS, 1989.

FIGURE 7
Potentiometric Surface Map of the
Deep Bedrock Aquifer, June 2010

10-4310-GIS-A303



Legend

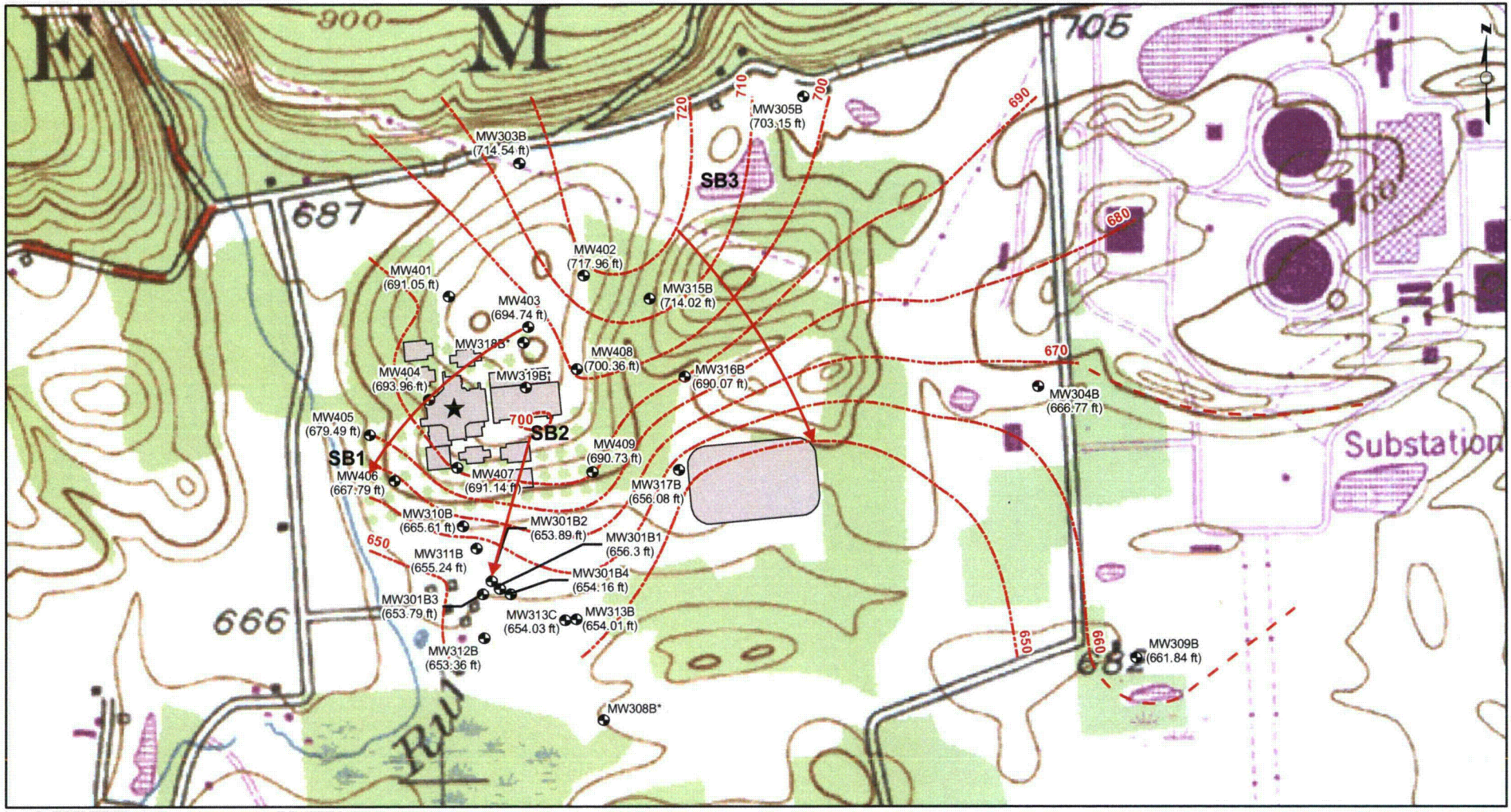
- Monitoring Well
- Saturated Glacial Outwash Thin or Nonexistent
- Groundwater Potentiometric Contour (ft. NAVD88)
- Approximate Location of Potentiometric Contour (ft. NAVD88)
- Approximate Direction of Groundwater Flow
- G01 Flow Line in Glacial Outwash
- G8 ▲ Pond
- (656.66) Groundwater Elevation in feet NAVD88
- ★ BBNPP
- NPP Building or Structure

SCALE
800 0 800 FEET

SCALE
0 96 192 288 384 480
meters

FIGURE 8

Potentiometric Surface Map
of the Glacial Outwash Aquifer
September 2010
10-4310-CADD-A047



Legend

- Monitoring Well
- (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- 680 Approximate Location of Potentiometric Contour (elevation in feet NAVD88)
- Groundwater Flow Direction
- SB Flow Line in Shallow Bedrock
- ★ BBNPP
- NPP Building or Structure

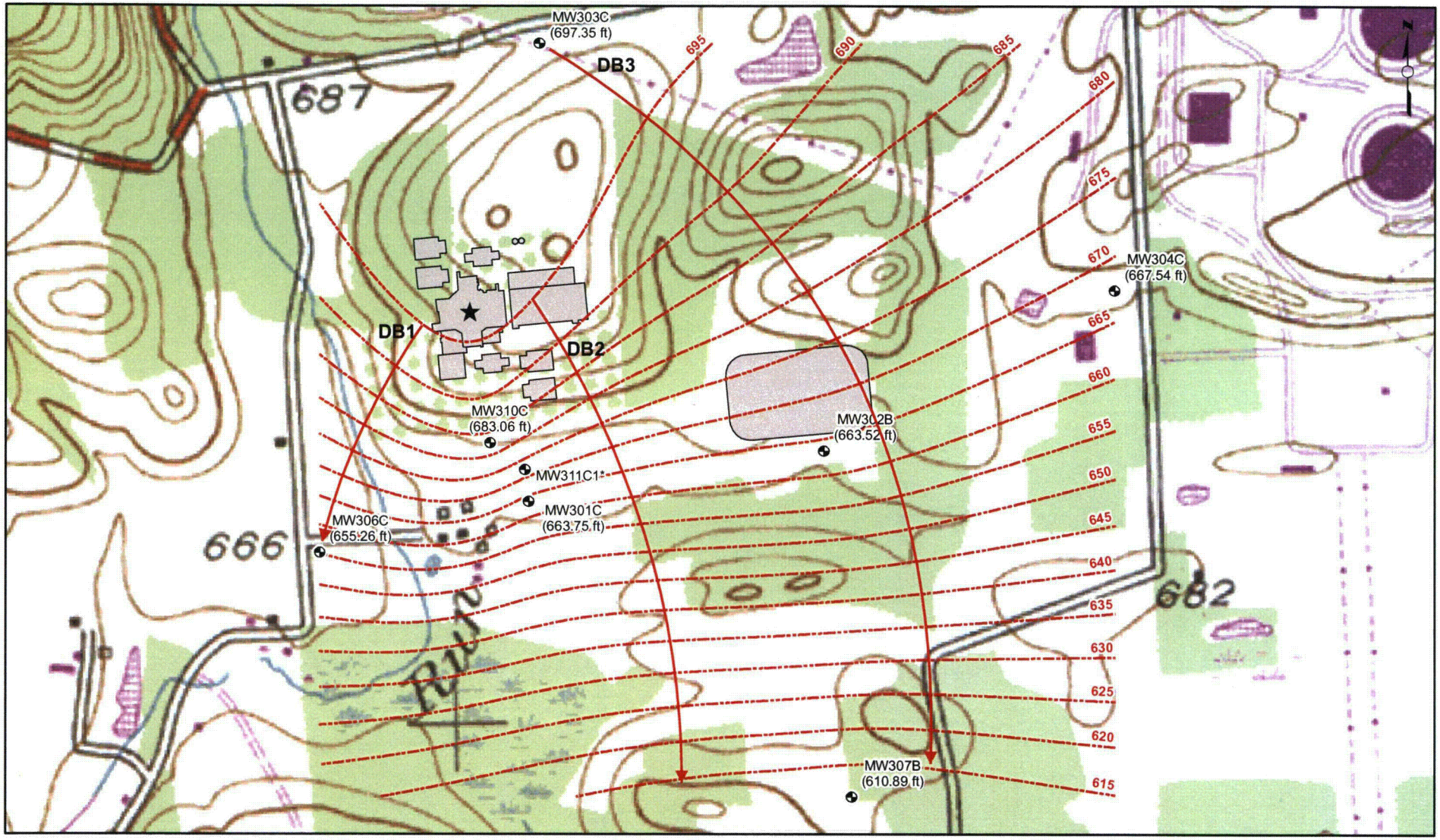
0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 9
Potentiometric Map of the Shallow Bedrock Aquifer, September 2010

10-4310-GIS-A302



Legend

- Monitoring Well (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- Groundwater Flow Direction
- DB Flow Line in Deep Bedrock
- BBNPP
- NPP Building or Structure

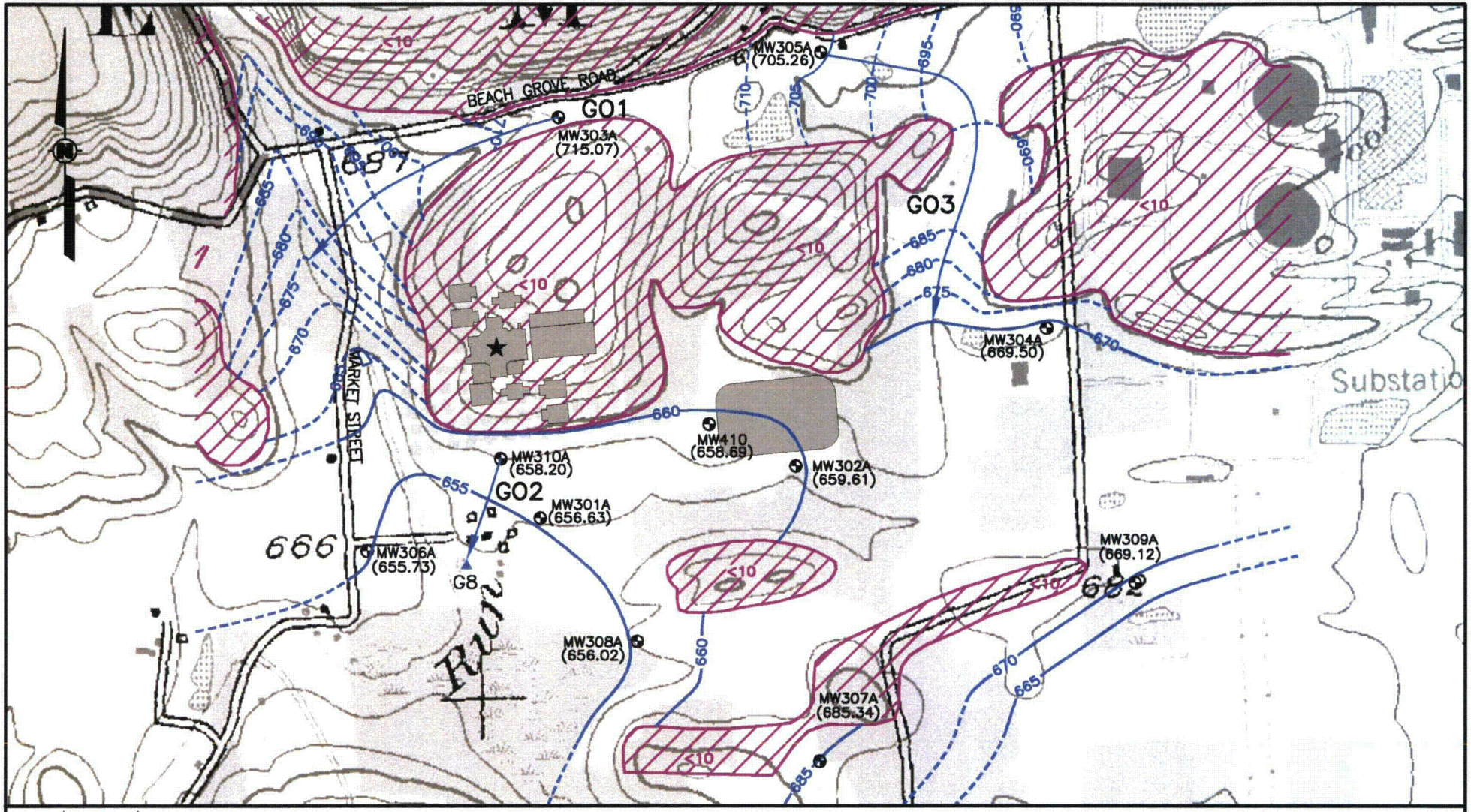
0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 10
Potentiometric Surface Map of the Deep Bedrock Aquifer, September 2010

10-4310-GIS-A301



Legend

- Monitoring Well
- Saturated Glacial Outwash Thin or Nonexistent
- Groundwater Potentiometric Contour (ft. NAVD88)
- Approximate Location of Potentiometric Contour (ft. NAVD88)
- Approximate Direction of Groundwater Flow
- GO1 Flow Line in Glacial Outwash
- G8 ▲ Pond
- (656.63) Groundwater Elevation in feet NAVD88
- ★ BBNPP
- NPP Building or Structure

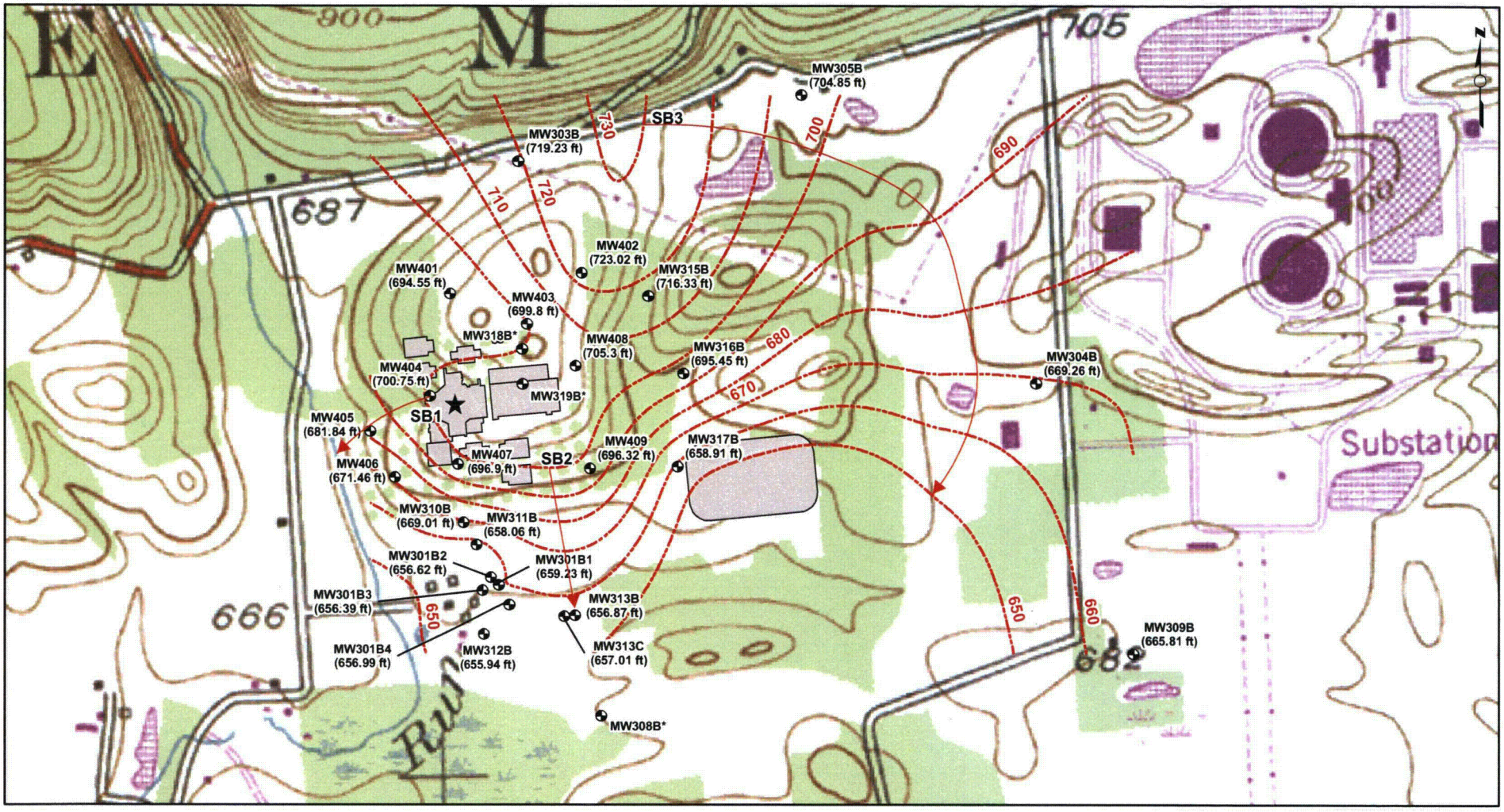
SCALE
800 0 800 FEET

SCALE
0 96 192 288 384 480
meters

FIGURE 11

Potentiometric Surface Map
of the Glacial Outwash Aquifer
December 2010

10-4310-CADD-A048



Legend

- Monitoring Well
- (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- Groundwater Flow Direction
- SB Flow Line in Shallow Bedrock
- BBNPP
- NPP Building or Structure

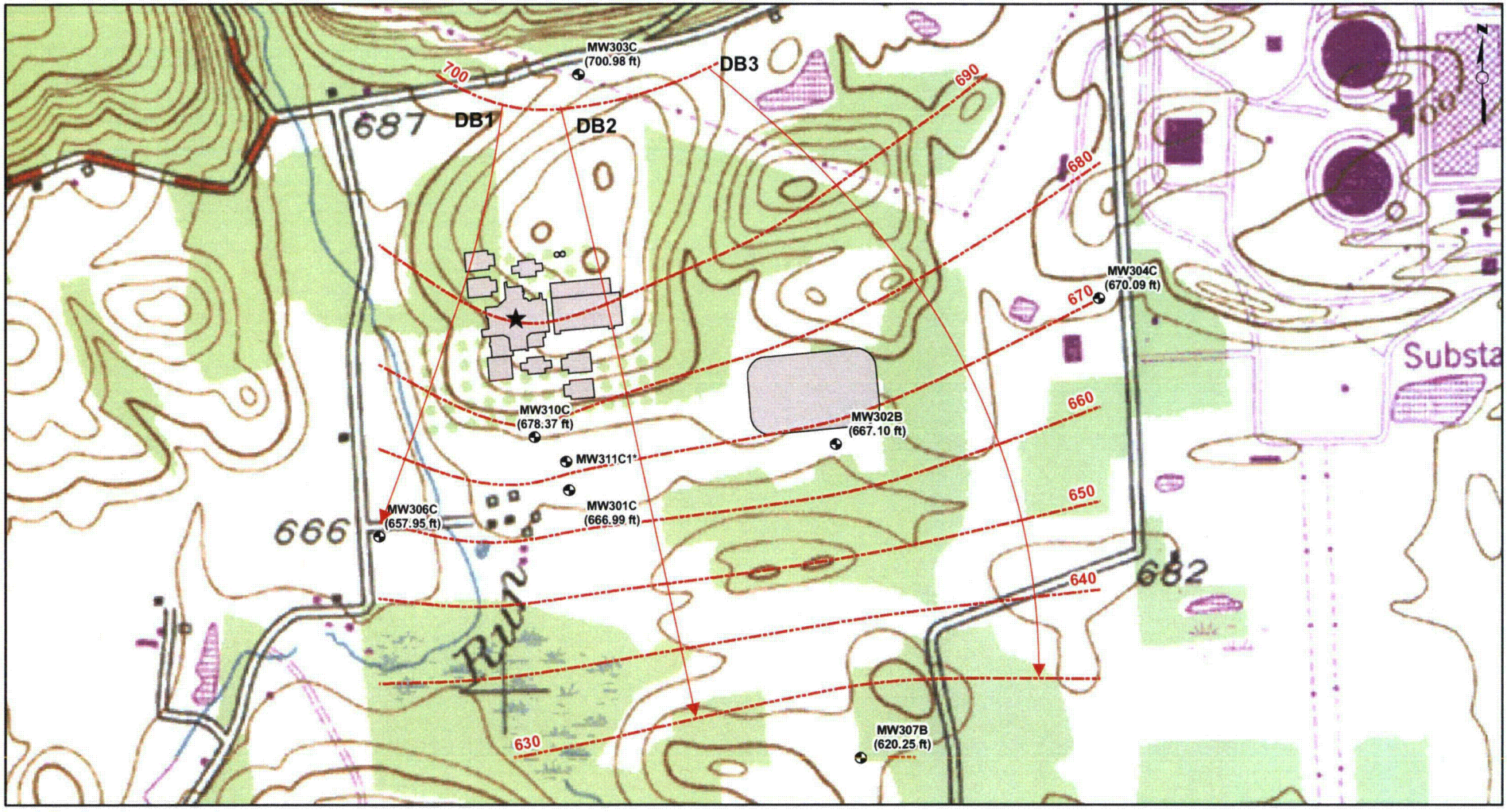
0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 12
Potentiometric Map of the Shallow Bedrock Aquifer, December 2010

10-4310-GIS-A306



Legend

- Monitoring Well (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- Groundwater Flow Direction
- DB Flow Line in Deep Bedrock
- ★ BBNPP
- NPP Building or Structure

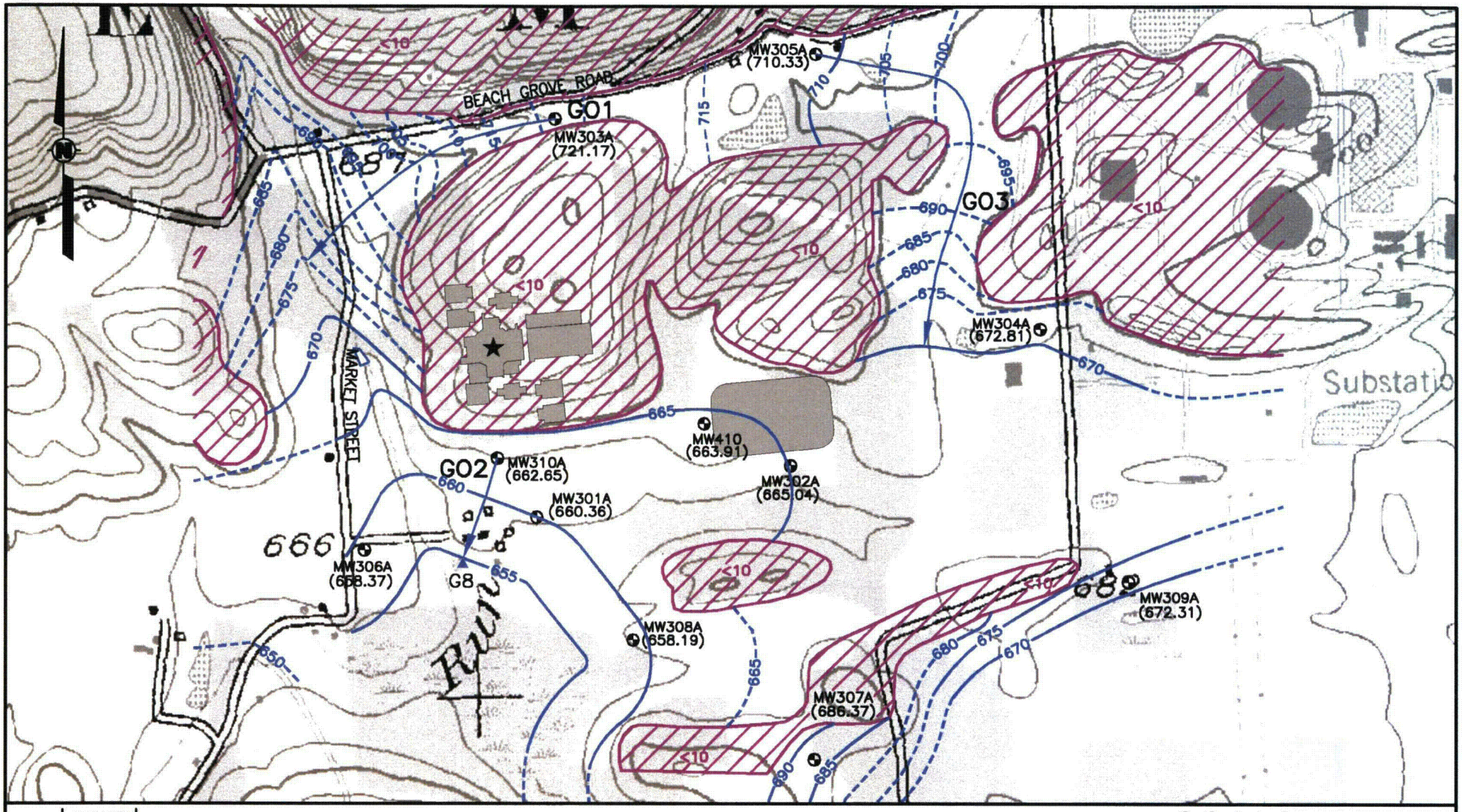
0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 13
Potentiometric Map of the Deep Bedrock Aquifer, December 2010

10-4310-GIS-A305



Legend

- Monitoring Well
- Saturated Glacial Outwash Thin or Nonexistent
- Groundwater Potentiometric Contour (ft. NAVD88)
- Approximate Location of Potentiometric Contour (ft. NAVD88)
- Approximate Direction of Groundwater Flow
- G01 Flow Line in Glacial Outwash
- G8 ▲ Pond
- (660.36) Groundwater Elevation in feet NAVD88
- ★ BBNPP
- NPP Building or Structure

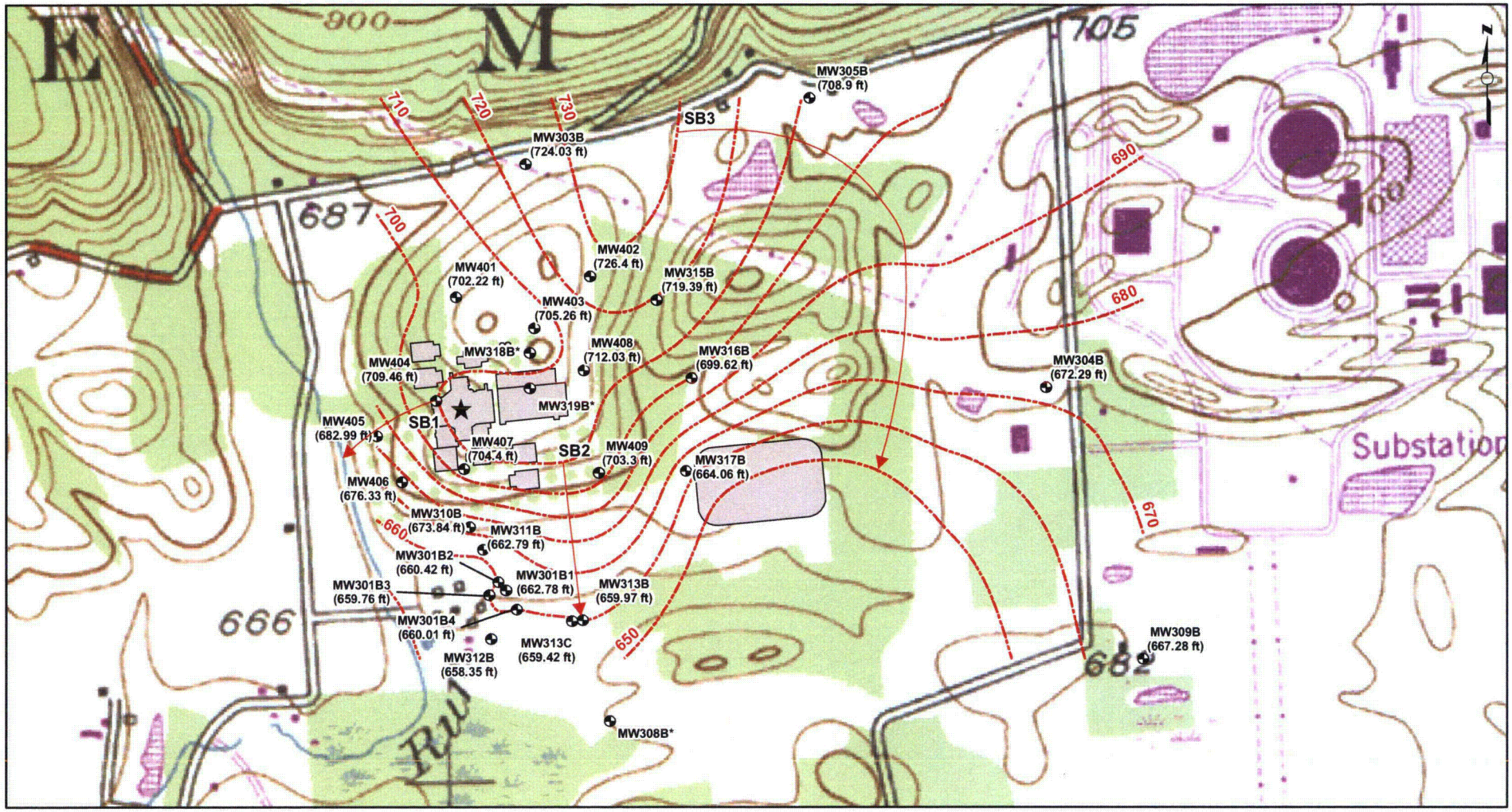
SCALE
800 0 800 FEET

SCALE
0 96 192 288 384 480
meters

FIGURE 14

Potentiometric Surface Map
of the Glacial Outwash Aquifer
April 2011

10-4310-CADD-A049



Legend

- Monitoring Well (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- Groundwater Flow Direction
- SB Flow Line in Shallow Bedrock
- ★ BBNPP
- NPP Building or Structure

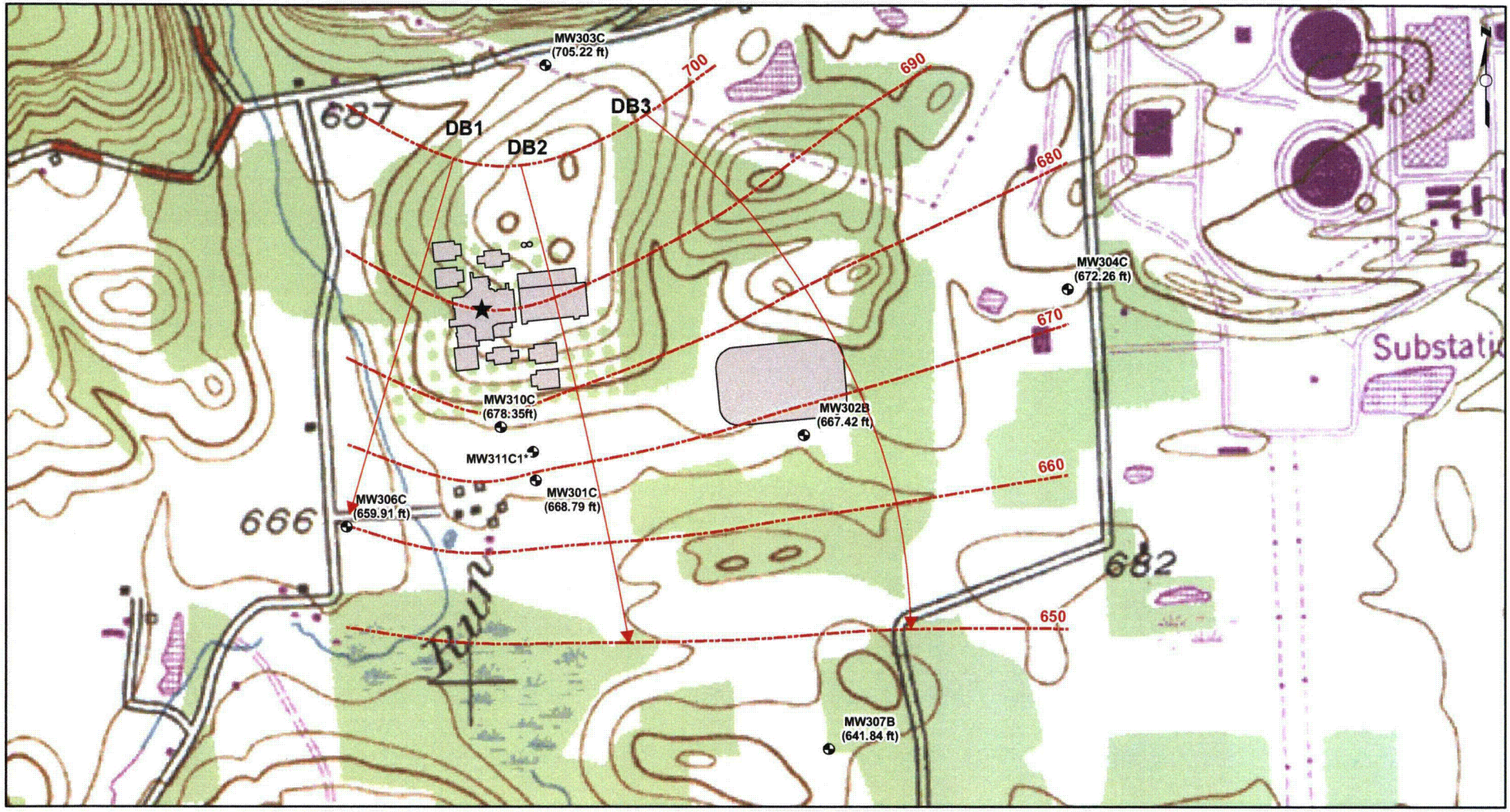
0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 15
Potentiometric Map of the Shallow Bedrock Aquifer, April 2011

10-4310-GIS-A308



Legend

- Monitoring Well (668.92 ft) (Groundwater Elevation in feet NAVD88)
- * Groundwater Elevation not used in contouring.
- 680 Potentiometric Contours (elevation in feet NAVD88)
- Groundwater Flow Direction
- DB Flow Line in Deep Bedrock
- ★ BBNPP
- NPP Building or Structure

0 250 500 1,000 Feet

0 62.5 125 250 Meters

REFERENCE:
USGS, 1989.

FIGURE 16
Potentiometric Map of the Deep Bedrock Aquifer, April 2011

10-4310-GIS-A307

ATTACHMENT B

TABLE 1
BBNPP MONITORING WELLS AND CONSTRUCTION DETAILS

Monitoring Well ID	Corresponding Geotechnical Boring	Northing [1] (ft)	Easting [1] (ft)	Ground Surface Elevation [2] (ft)	Top of Casing Elevation [2] (ft)	Boring Depth (ft bgs)	Well Depth (ft bgs)	Screen Diameter & Slot Size (in)	Screen Interval Depth		Screen Interval Elevation [2]		Filterpack Interval Depth	
									Top (ft bgs)	Bottom (ft bgs)	Top (ft)	Bottom (ft)	Top (ft bgs)	Bottom (ft bgs)
Glacial Outwash Well														
MW410	NA	339662.11	2406412.5	679.04	680.04	39	36	4.0/ 0.02	21	36	658.04	643.04	19	39
Shallow Bedrock Wells														
MW401	NA	340753.25	2405097.68	780.44	782.20	252.10	150.20	4.0/ 0.04	120.00	150.00	660.44	630.44	116.00	153.90
MW402	NA	340870.66	2405855.94	785.24	787.51	151.50	117.20	4.0/ 0.04	87.00	117.00	698.24	668.24	82.00	122.00
MW403	NA	340579.28	2405542.37	801.97	804.23	167.00	167.00	4.0/ 0.04	137.00	167.00	664.97	634.97	132.00	167.00
MW404	NA	340170.50	2404985.30	735.42	738.02	95.00	95.00	4.0/ 0.04	65.00	95.00	670.42	640.42	60.50	95.00
MW405	NA	339970.47	2404646.35	693.84	696.52	76.00	75.85	4.0/ 0.04	45.45	75.45	648.39	618.39	40.00	76.00
MW406	NA	339710.35	2404789.81	712.51	715.04	90.00	90.00	4.0/ 0.04	60.00	90.00	652.51	622.51	55.00	90.00
MW407	NA	339784.93	2405144.25	734.76	737.49	115.00	115.00	4.0/ 0.04	85.00	115.00	649.76	619.76	83.00	115.00
MW408	NA	340342.30	2405819.88	767.00	768.96	238.30	130.20	4.0/ 0.04	100.00	130.00	667.00	637.00	96.10	134.30
MW409	NA	339760.65	2405905.35	720.79	723.57	100.00	100.00	4.0/ 0.04	70.00	100.00	650.79	620.79	65.00	100.00

Notes:

[1] Horizontal Datum NAD83 State Plane feet

[2] Vertical Datum NAVD88 feet

TABLE 2
HYDRAULIC CONDUCTIVITY VALUES BASED ON PACKER TESTS

DEPTH TO TOP OF TEST ZONE	DEPTH TO BOTTOM OF TEST ZONE	HYDRAULIC CONDUCTIVITY [1] [2]	
(FT)	(FT)	(FT/DAY)	(CM/S)
Monitoring Well MW401 tested on 4/27/2010, 4/28/2010, and 5/5/2010			
120.6	133.2	1.12E-01	3.94E-05
131.6	144.2	1.35E-01	4.78E-05
141.6	154.2	1.08E+00	3.82E-04
152.6	165.2	<1.13E-03	<3.97E-07
162.6	175.2	<1.13E-03	<3.97E-07
183.6	196.2	2.25E-03	7.95E-07
204.6	217.2	1.69E-03	5.96E-07
225.6	238.2	1.74E-03	6.14E-07
Monitoring Well MW402 tested on 5/5/2010 and 5/6/2010			
91.1	103.7	5.23E-03	1.84E-06
101.1	113.7	1.67E-01	5.90E-05
112.1	124.7	4.18E-03	1.48E-06
122.1	134.7	3.14E-03	1.11E-06
130.2	142.8	<1.13E-03	<3.97E-07
Monitoring Well MW403 tested on 4/21/2010 and 4/22/2010			
75.8	89.1	<1.13E-03	<3.97E-07
86.8	100.1	<1.13E-03	<3.97E-07
96.8	110.1	<1.13E-03	<3.97E-07
107.8	121.1	<1.13E-03	<3.97E-07
117.8	131.1	<1.13E-03	<3.97E-07
128.8	142.1	<1.13E-03	<3.97E-07
138.8	152.1	3.85E-02	1.36E-05
149.8	163.1	7.48E-03	2.64E-06
170.8	184.1	<1.13E-03	<3.97E-07
180.8	194.1	<1.13E-03	<3.97E-07
191.8	205.1	<4.29E-03	<1.51E-06
Monitoring Well MW408 tested on 5/6/2010			
70.6	83.2	6.60E-03	2.33E-06
91.6	104.2	2.20E-03	7.77E-07
101.6	114.2	4.40E-03	1.55E-06
112.6	125.2	2.75E-01	9.72E-05
122.6	135.2	5.60E-03	1.98E-06
133.6	146.2	4.40E-03	1.55E-06
154.6	167.2	2.20E-07	7.77E-07
175.6	188.2	8.96E-03	3.16E-06
196.6	209.2	4.48E-03	1.58E-06
215.9	228.5	6.75E-03	2.38E-06

TABLE 2
HYDRAULIC CONDUCTIVITY VALUES BASED ON PACKER TESTS
(CONTINUED)

Notes:

(1) Hydraulic conductivity values reported are arithmetic means of all tests run in each test zone.

(2) The lowest calculated hydraulic conductivity was 1.13E-03 ft/day (3.97E-07 cm/s). This hydraulic conductivity value was calculated based on a measured flow rate of 0.02 gallons per minute. For all tests where flow conditions less than 0.02 gallons per minute were measured, hydraulic conductivity values of <1.13E-03 ft/day (<3.97E-07 cm/s) were assigned. Therefore, arithmetic mean values of hydraulic conductivity that include any assigned values of <1.13E-03 ft/day (<3.97E-07 cm/s) are presented as less than (<) values.

TABLE 3
HYDRAULIC CONDUCTIVITY VALUES BASED ON SLUG TESTS

WELL ID	METHOD OF SLUG TEST	HYDRAULIC CONDUCTIVITY		
		(FT/DAY)	(FT/SEC)	(CM/SEC)
Glacial Outwash Well				
MW410	Falling Head	3.80E+00	4.40E-05	1.34E-03
	Rising Head	5.94E+00	6.88E-05	2.10E-03
	Mean	4.87E+00	5.64E-05	1.72E-03
Shallow Bedrock Wells				
MW401	Falling Head	1.57E+00	1.82E-05	5.54E-04
	Rising Head	1.71E+00	1.98E-05	6.03E-04
	Mean	1.64E+00	1.90E-05	5.79E-04
MW402	Falling Head	1.44E-01	1.67E-06	5.08E-05
	Rising Head	1.33E-01	1.54E-06	4.69E-05
	Mean	1.39E-01	1.60E-06	4.89E-05
MW403	Falling Head	2.72E-01	3.15E-06	9.60E-05
	Rising Head	3.53E-01	4.09E-06	1.25E-04
	Mean	3.13E-01	3.62E-06	1.10E-04
MW404	Falling Head	2.50E+00	2.89E-05	8.82E-04
	Rising Head	3.75E+00	4.34E-05	1.32E-03
	Mean	3.13E+00	3.62E-05	1.10E-03
MW405	Falling Head	1.77E+00	2.05E-05	6.24E-04
	Rising Head	1.87E+00	2.16E-05	6.60E-04
	Mean	1.82E+00	2.11E-05	6.42E-04
MW406	Falling Head	1.05E+00	1.22E-05	3.70E-04
	Rising Head	1.19E+00	1.38E-05	4.20E-04
	Mean	1.12E+00	1.30E-05	3.95E-04
MW407	Falling Head	1.26E+00	1.46E-05	4.45E-04
	Rising Head	1.54E+00	1.78E-05	5.43E-04
	Mean	1.40E+00	1.62E-05	4.94E-04
MW408	Falling Head	2.70E-01	3.13E-06	9.53E-05
	Rising Head	2.30E-01	2.66E-06	8.11E-05
	Mean	2.50E-01	2.89E-06	8.82E-05
MW409	Falling Head	8.93E-01	1.03E-05	3.15E-04
	Rising Head	1.04E+00	1.20E-05	3.67E-04
	Mean	9.67E-01	1.12E-05	3.41E-04
Geometric Mean [1]		8.12E-01	9.39E-06	2.86E-04

Note:

[1] Geometric Mean is calculated using mean values from shallow bedrock wells only.

TABLE 4
HYDRAULIC CONDUCTIVITY VALUES BASED ON PUMPING TESTS

OBSERVATION WELL	DATA TYPE	TRANSMISSIVITY (FT^2/DAY)	TRANSMISSIVITY (CM^2/SEC)	HYDRAULIC CONDUCTIVITY (FT/DAY)	HYDRAULIC CONDUCTIVITY (CM/SEC)	STORAGE COEFFICIENT (UNITLESS)
Pumping Well MW404						
MW405	Drawdown	1.19E+02	1.28E+00	3.45E+00	1.22E-03	2.60E-04
	Recovery	6.02E+01	6.47E-01	1.75E+00	6.17E-04	1.84E-04
MW407	Drawdown	1.12E+02	1.20E+00	3.25E+00	1.15E-03	1.15E-04
	Recovery	8.36E+01	8.99E-01	2.42E+00	8.54E-04	2.14E-04
Arithmetic Mean		9.37E+01	1.01E+00	2.72E+00	9.59E-04	1.93E-04
Pumping Well MW405						
MW404	Drawdown	8.84E+01	9.51E-01	2.45E+00	8.64E-04	2.88E-04
	Recovery	1.00E+01	1.08E-01	2.78E-01	9.81E-05	1.43E-04
MW406	Drawdown	5.30E+01	5.70E-01	1.47E+00	5.19E-04	2.33E-04
	Recovery	2.37E+01	2.55E-01	6.59E-01	2.32E-04	1.91E-04
Arithmetic Mean		4.38E+01	4.71E-01	1.21E+00	4.28E-04	2.14E-04
Pumping Well MW407						
MW404	Drawdown	8.10E+01	8.71E-01	2.53E+00	8.93E-04	1.79E-04
	Recovery	3.45E+01	3.71E-01	1.08E+00	3.81E-04	1.76E-04
MW409	Drawdown	5.24E+01	5.63E-01	1.64E+00	5.79E-04	7.27E-06
	Recovery	4.04E+01	4.34E-01	1.26E+00	4.45E-04	6.42E-06
Arithmetic Mean		5.21E+01	5.60E-01	1.63E+00	5.74E-04	9.22E-05

TABLE 5
BBNPP MONTHLY GROUNDWATER ELEVATION MEASUREMENTS

Monitoring Well ID	Elevation (ft)[1]		Groundwater Elevation (ft) [1]												
	Ground Surface	Top of Riser Reference Point	May 6-7, 2010	May 20, 2010	June 29, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 24, 2011	December 14, 2010	January 13, 2011	February 22, 2011	March 21, 2011	April 20, 2011
Glacial Outwash Wells															
MW301A	662.48	664.54	656.81	NM	NM	654.77	654.37	653.90	654.98	655.36	656.63	655.82	656.63	659.21	660.36
MW302A1	665.18	667.41	660.24	NM	658.47	657.67	657.15	656.86	657.56	657.97	659.61	658.82	659.32	663.73	665.04
MW302A2	665.25	667.42	660.22	NM	658.44	657.65	657.11	656.84	657.53	657.95	659.58	658.79	659.29	663.69	665.01
MW302A3	665.34	667.70	660.14	NM	658.38	657.58	657.06	656.77	657.46	657.88	659.50	658.72	659.22	663.61	664.94
MW302A4	665.56	667.70	660.27	NM	658.49	657.70	657.17	656.89	657.58	658.00	659.57	658.84	659.33	663.74	665.07
MW303A	734.13	736.18	713.99	NM	713.22	712.68	712.46	712.12	713.76	714.02	715.07	713.82	715.34	716.41	721.17
MW304A	680.61	682.65	670.45	NM	668.92	668.16	667.75	667.16	668.18	668.51	669.50	669.13	669.81	671.98	672.81
MW305A1	715.30	717.35	706.02	NM	704.50	704.02	703.73	703.29	704.20	704.40	705.26	704.78	705.80	708.39	710.33
MW305A2	714.64	717.01	705.57	NM	704.24	703.76	703.57	703.15	704.05	704.23	705.00	704.54	705.45	707.40	708.89
MW306A	662.46	664.67	655.05	NM	653.98	653.59	653.48	653.06	654.28	654.65	655.73	654.57	655.65	657.41	658.37
MW307A	688.60	690.96	684.69	NM	682.22	680.55	679.40	678.72	683.01	684.58	685.34	682.81	685.48	685.19	686.37
MW308A	661.38	663.42	655.69	NM	654.45	653.88	653.70	653.13	654.60	655.00	656.02	655.08	656.04	657.19	658.19
MW309A	673.33	675.62	667.44	NM	665.33	664.47	664.00	662.13	665.62	666.70	669.12	667.37	669.53	671.14	672.31
MW310A	674.48	676.73	657.83	NM	NM	655.86	655.57	655.54	655.73	656.84	658.20	657.21	658.50	661.05	662.65
MW410	679.04	680.04	NM	658.91	657.55	656.58	655.95	655.66	656.46	656.91	658.69	657.93	658.44	662.44	663.91

TABLE 5
BNPP MONTHLY GROUNDWATER ELEVATION MEASUREMENTS
(CONTINUED)

Monitoring Well ID	Elevation (ft)[1]		Groundwater Elevation (ft)[1]												
	Ground Surface	Top of Riser Reference Point	May 6-7, 2010	May 20, 2010	June 29, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 24, 2011	December 14, 2010	January 13, 2011	February 22, 2011	March 21, 2011	April 20, 2011
Shallow Bedrock Wells															
MW301B1	662.40	664.39	659.05	NM	654.94	656.99	656.72	656.30	657.48	657.91	659.23	658.07	659.30	661.35	662.78
MW301B2	664.18	666.48	656.83	NM	655.50	654.78	654.42	653.89	654.98	655.36	656.62	655.79	656.60	659.18	660.42
MW301B3	662.41	664.61	656.38	NM	655.16	654.58	654.28	653.79	654.88	655.23	656.39	655.56	656.38	658.62	659.76
MW301B4	658.46	660.51	656.90	NM	NM	654.94	654.66	654.16	655.37	655.76	656.99	656.09	656.98	658.99	660.01
MW303B	733.53	735.65	717.48	NM	715.85	715.28	715.07	714.54	716.81	717.67	719.23	716.57	720.19	720.64	724.03
MW304B	681.27	683.09	669.58	NM	668.55	667.48	667.42	666.77	668.05	668.37	669.26	668.59	669.62	671.41	672.29
MW305B	714.10	716.19	705.48	NM	704.20	703.71	703.55	703.15	704.05	704.19	704.85	704.47	705.42	707.21	708.90
MW308B*	661.00	663.36	606.77	NM	607.24	610.66	611.96	612.84	614.26	615.85	616.74	617.89	619.42	620.54	621.66
MW309B	673.16	675.31	665.17	NM	663.52	662.79	662.54	661.84	664.09	664.25	665.81	664.29	665.25	666.28	667.28
MW310B	675.31	678.04	668.54	NM	667.17	666.40	665.96	665.61	666.68	667.25	669.01	667.94	669.63	671.72	673.84
MW311B	668.90	671.29	658.25	NM	NM	656.02	655.58	655.24	656.03	656.40	658.06	657.18	658.18	661.24	662.79
MW312B	656.90	659.00	655.77	NM	654.65	654.12	653.89	653.36	654.56	654.95	655.94	655.11	655.94	657.45	658.35
MW313B	657.68	659.97	656.89	NM	655.55	654.84	654.49	654.01	655.18	655.59	656.87	656.01	656.83	659.10	(2)
MW313C	657.24	659.42	656.84	NM	655.54	654.84	654.53	654.03	655.14	655.60	657.01	655.91	656.92	658.82	(2)
MW315B	720.08	719.82	717.15	NM	715.42	714.83	714.37	714.02	714.31	714.61	716.33	716.24	717.22	719.78	719.39
MW316B	702.37	702.08	696.68	NM	692.84	691.55	690.62	690.07	691.68	692.12	695.45	694.67	696.54	699.20	699.62
MW317B	681.17	683.30	659.47	NM	657.79	656.92	656.37	656.08	656.83	657.23	658.91	658.17	658.66	662.63	664.06
MW318B*	801.32	803.79	757.47	NM	754.66	751.35	751.07	750.64	754.74	755.02	760.41	756.36	763.04	761.25	764.51
MW319B*	790.57	793.04	715.06	NM	709.51	707.11	705.54	704.48	704.24	704.81	712.16	711.21	715.26	720.54	724.11
MW401	780.44	782.20	NM	696.70	693.78	692.47	691.58	691.05	691.54	692.61	694.55	694.76	694.87	700.10	702.22
MW402	785.24	787.51	NM	720.59	719.54	718.79	718.29	717.96	719.72	720.49	723.02	721.11	724.30	724.74	726.40

TABLE 5
BNPP MONTHLY GROUNDWATER ELEVATION MEASUREMENTS
(CONTINUED)

Monitoring Well ID	Elevation (ft)[1]		Groundwater Elevation (ft) [1]												
	Ground Surface	Top of Riser Reference Point	May 6-7, 2010	May 20, 2010	June 29, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 24, 2011	December 14, 2010	January 13, 2011	February 22, 2011	March 21, 2011	April 20, 2011
MW403	801.97	804.23	NM	700.27	699.08	696.65	695.64	694.74	696.25	696.85	699.80	698.56	700.94	703.52	705.26
MW404	735.42	738.02	NM	700.16	696.92	695.55	694.70	693.96	695.89	696.93	700.75	699.35	702.62	705.30	709.46
MW405	693.84	696.52	NM	680.51	680.08	679.99	680.08	679.49	680.30	680.67	681.84	680.77	682.34	682.16	682.99
MW406	712.51	715.04	NM	669.70	668.99	668.36	668.09	667.79	668.98	669.64	671.46	670.47	672.25	674.08	676.33
MW407	734.76	737.49	NM	697.34	693.99	692.59	691.81	691.14	692.84	693.74	696.90	695.66	698.47	700.79	704.40
MW408	767.00	768.96	NM	705.86	703.68	702.25	701.18	700.36	700.99	701.82	705.30	704.96	743.18	709.89	712.03
MW409	720.79	723.57	NM	696.92	693.64	692.23	691.40	690.73	692.47	693.31	696.32	695.04	661.66	699.93	703.30
Deep Bedrock Wells															
MW301C	666.38	668.79	667.28	NM	665.47	664.49	664.06	663.75	664.84	665.36	666.99	666.17	666.79	(2)	(2)
MW302B	665.29	667.42	666.95	NM	665.19	664.42	664.16	663.52	665.48	666.12	667.10	665.52	667.22	(2)	(2)
MW303C	732.94	734.98	698.39	NM	698.59	697.65	697.74	697.35	698.87	699.61	700.98	699.33	701.39	703.19	705.22
MW304C	680.57	682.44	670.45	NM	669.26	668.23	667.82	667.54	668.94	669.17	670.09	669.64	670.12	671.94	672.26
MW306C	662.47	664.70	657.42	NM	656.40	655.84	655.60	655.26	656.54	656.96	657.95	656.95	657.55	659.51	659.91
MW307B	688.33	690.85	625.42	NM	616.57	613.54	611.69	610.89	613.45	614.31	620.25	618.54	618.69	644.40	641.84
MW310C	675.38	678.35	(2)	NM	(2)	(2)	(2)	683.06	(2)	684.53	678.37	NA	NA	NM	(2)
MW311C1	669.07	671.18	597.64	NM	600.54	601.99	603.44	604.45	606.11	608.92	611.42	612.95	614.90	616.25	617.67

Notes:

(1) Vertical datum NAVD88 feet.

(2) Flowing artesian groundwater conditions encountered. Groundwater elevation was set equal to the top of PVC riser pipe.

NM = Not measured.

NA = Groundwater elevation is not available – groundwater frozen at top of PVC riser pipe.

* = Groundwater elevations are considered to be anomalous. Data are not used to construct potentiometric contours (when applicable).

TABLE 6
BBNPP MONTHLY SURFACE WATER ELEVATION MEASUREMENTS

Gauging Station ID	Elevation (ft)											
	Surveyed Referene Point	June 30, 2010	July 27, 2010	August 24, 2010	September 14, 2010	October 15, 2010	November 23-24, 2010	December14, 2010	January 12, 2011	February 22, 2011	March 21, 2011	April 20, 2011
Stream Gauging Stations												
G1	670.97	661.76	661.72	661.75	661.69	662.18	662.1	662.17	662.12	662.29	662.52	662.77
G2	656.81	646.01	646.04	646.11	645.92	646.42	646.55	647.31	646.39	647.22	647.64	647.86
G3	729.20	722.53	722.45	722.50	(1)	722.51	722.49	722.65	722.49	722.64	722.71	722.82
G5	608.10	601.65	601.82	601.62	NM	601.75	601.65	602.00	601.87	601.90	602.20	602.09
G10	529.77	518.32	518.47	518.52	518.37	518.54	518.48	518.56	518.69	518.61	518.46	518.37
G12	661.25	NM	(1)	NM	NM	NM	NM	NM	NM	NM	NM	NM
G13	649.12	638.01	637.99	638.02	637.94	638.27	638.34	638.59	638.26	638.88	639.27	639.44
Pond Gauging Stations												
G6[3]	714.27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G7[4]	687.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G8	656.62	NM	(1)	654.17	(2)	654.26	654.36	654.41	654.53	654.46	654.64	654.88
G9	667.75	NM	665.85	665.83	665.55	665.92	665.95	666.53	666.31	666.67	667.07	667.33

Notes:

Vertical datum NAVD88

(1) Dry conditions, no measurement.

(2) Water level below bottom of gauge, no measurement.

(3) Gauge has been removed.

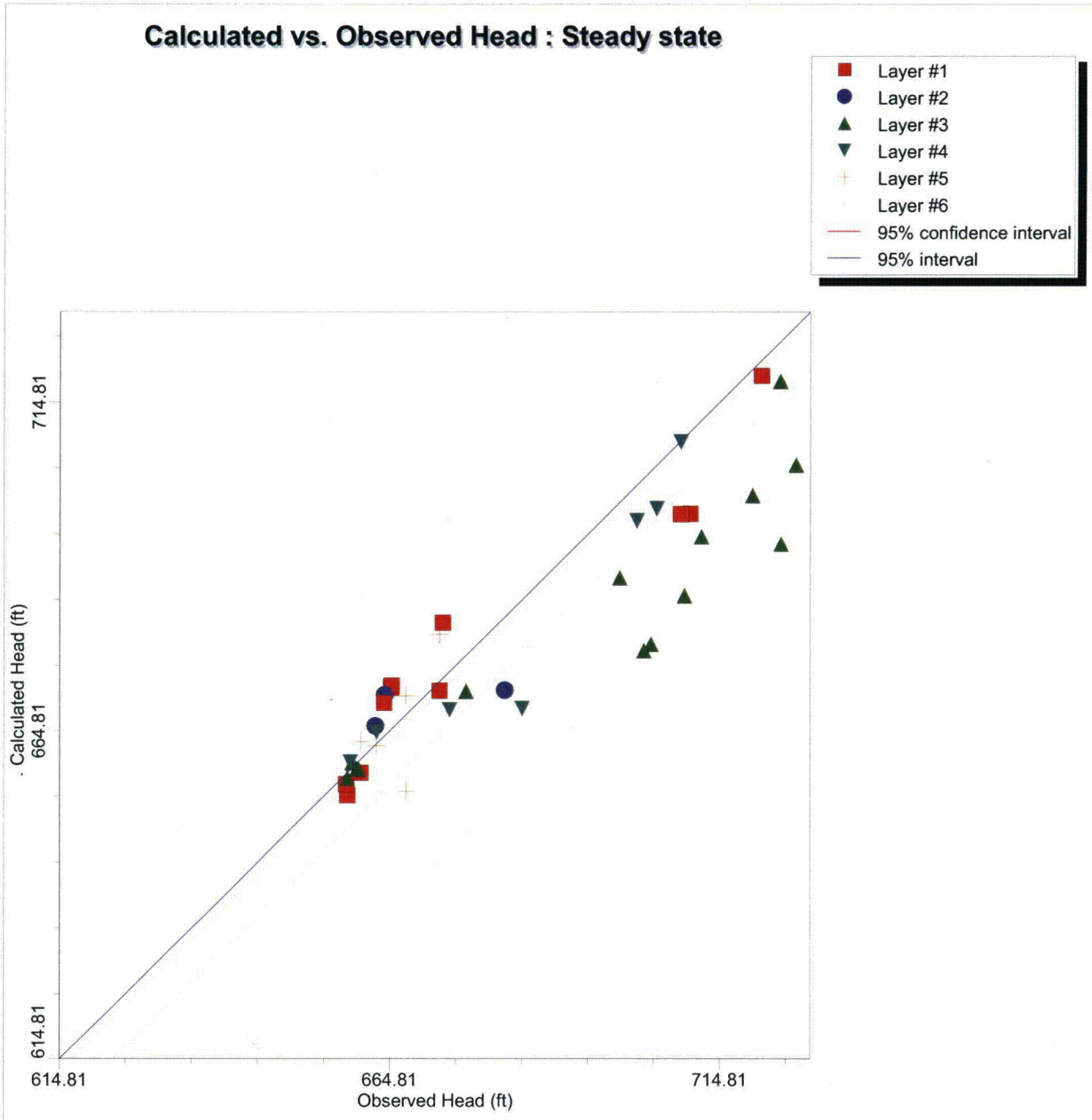
(4) Pond has been drained.

NM = No measurement taken.

NA= Not available.

APPENDIX B

Baseline Flow Model Calibration Results and List Output
All Model Files on Compact Disc



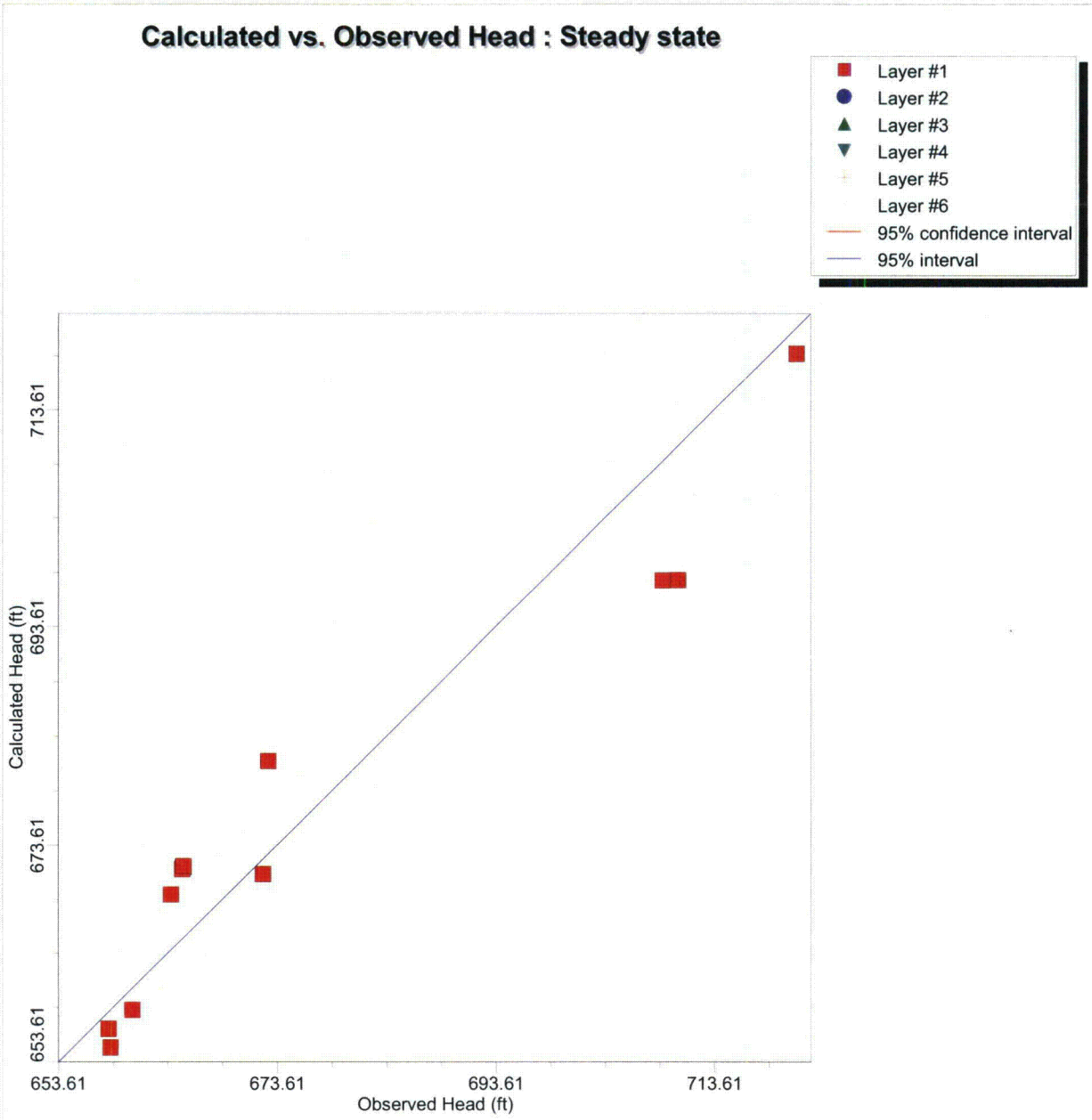
Max. Residual: -30.797 (ft) at MW319B/1
Min. Residual: -0.129 (ft) at MW305B/1
Residual Mean : -4.935 (ft)
Abs. Residual Mean : 8.612 (ft)

Num. of Data Points : 46
Standard Error of the Estimate : 1.614 (ft)
Root Mean Squared : 11.899 (ft)
Normalized RMS : 14.511 (%)
Correlation Coefficient : 0.889

Baseline Head Calibration 2011 Full 12 Month Data, All Layers

WEAVER BOOS CONSULTANTS
4085 Meghan Beeler Court
South Bend, Indiana 46628

Bell Bend Nuclear Power Plant
Berwick, Pennsylvania



Max. Residual: -12.409 (ft) at MW305A1/1
Min. Residual: -1.364 (ft) at MW309A/1
Residual Mean : 0.453 (ft)
Abs. Residual Mean : 5.693 (ft)

Num. of Data Points : 13
Standard Error of the Estimate : 1.911 (ft)
Root Mean Squared : 6.636 (ft)
Normalized RMS : 10.537 (%)
Correlation Coefficient : 0.957

Baseline Head Calibration 2011 Full 12 Month Data, Layer 1

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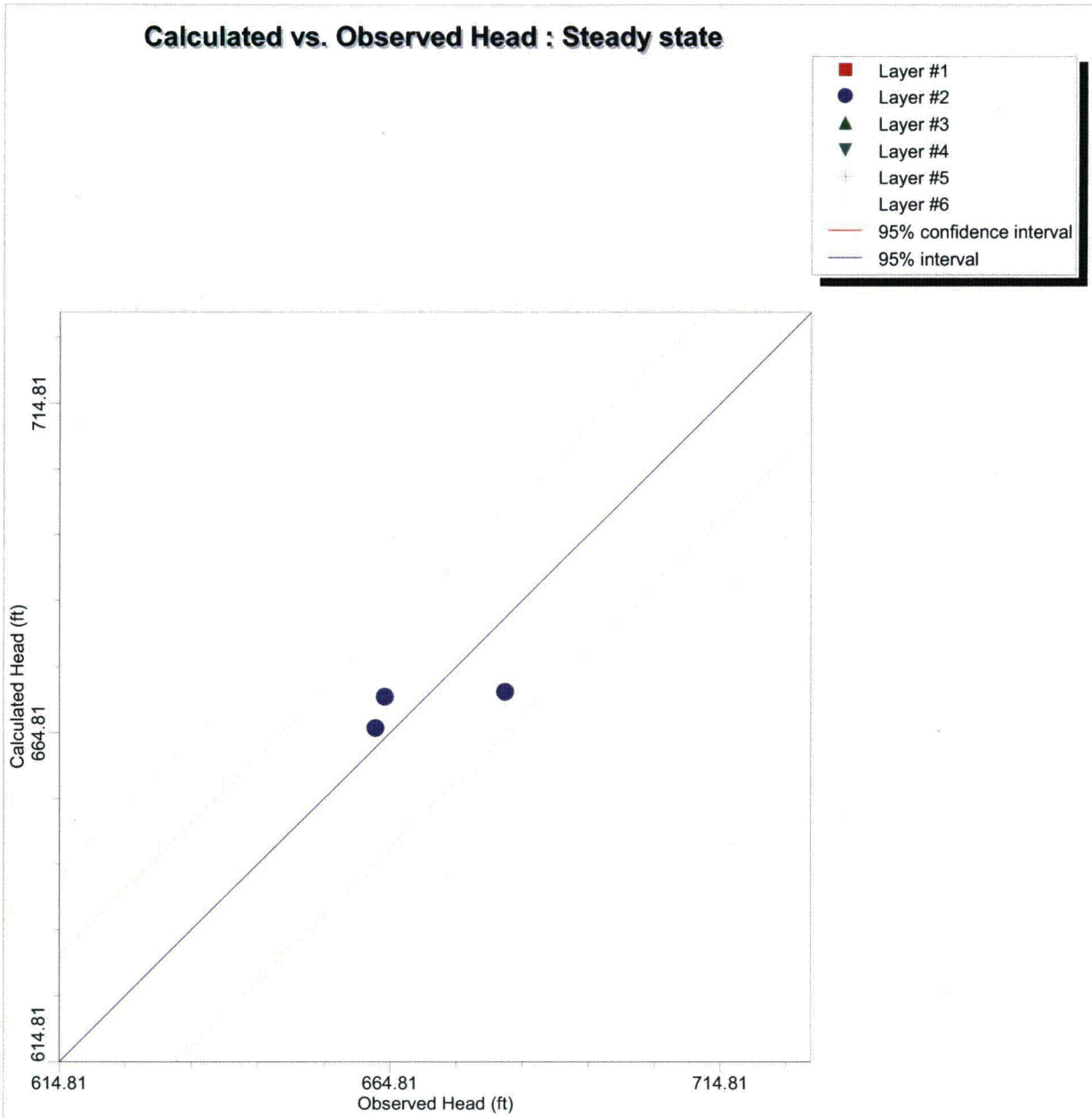
Berwick, Pennsylvania



Max. Residual: -11.21 (ft) at MW405/A
Min. Residual: 2.888 (ft) at MW310A/1
Residual Mean : -0.708 (ft)
Abs. Residual Mean : 6.765 (ft)

Num. of Data Points : 3
Standard Error of the Estimate : 5.337 (ft)
Root Mean Squared : 7.581 (ft)
Normalized RMS : 38.739 (%)
Correlation Coefficient : 0.656

Baseline Head Calibration 2011 Full 12 Month Data, Layer 2

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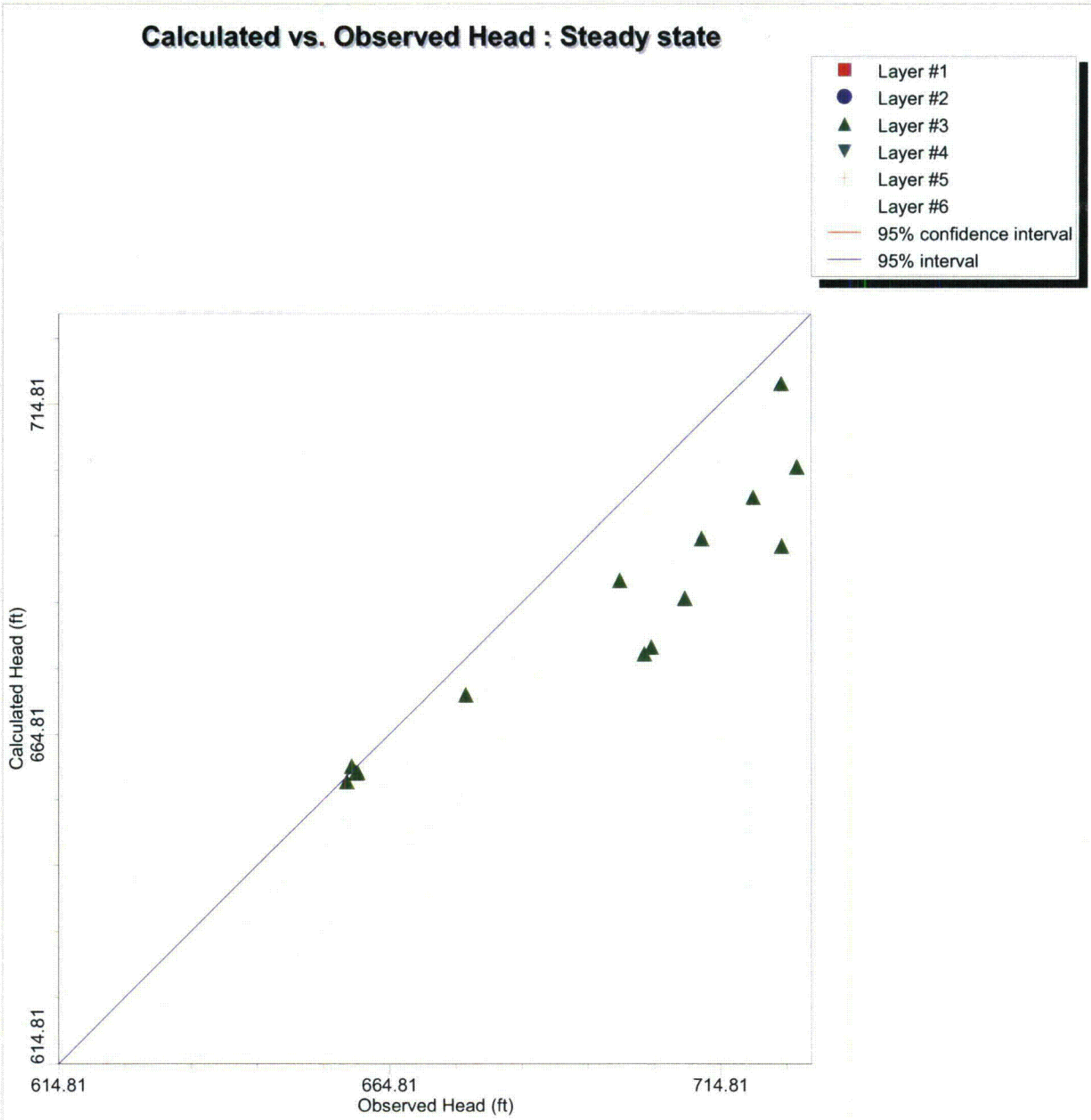
Berwick, Pennsylvania

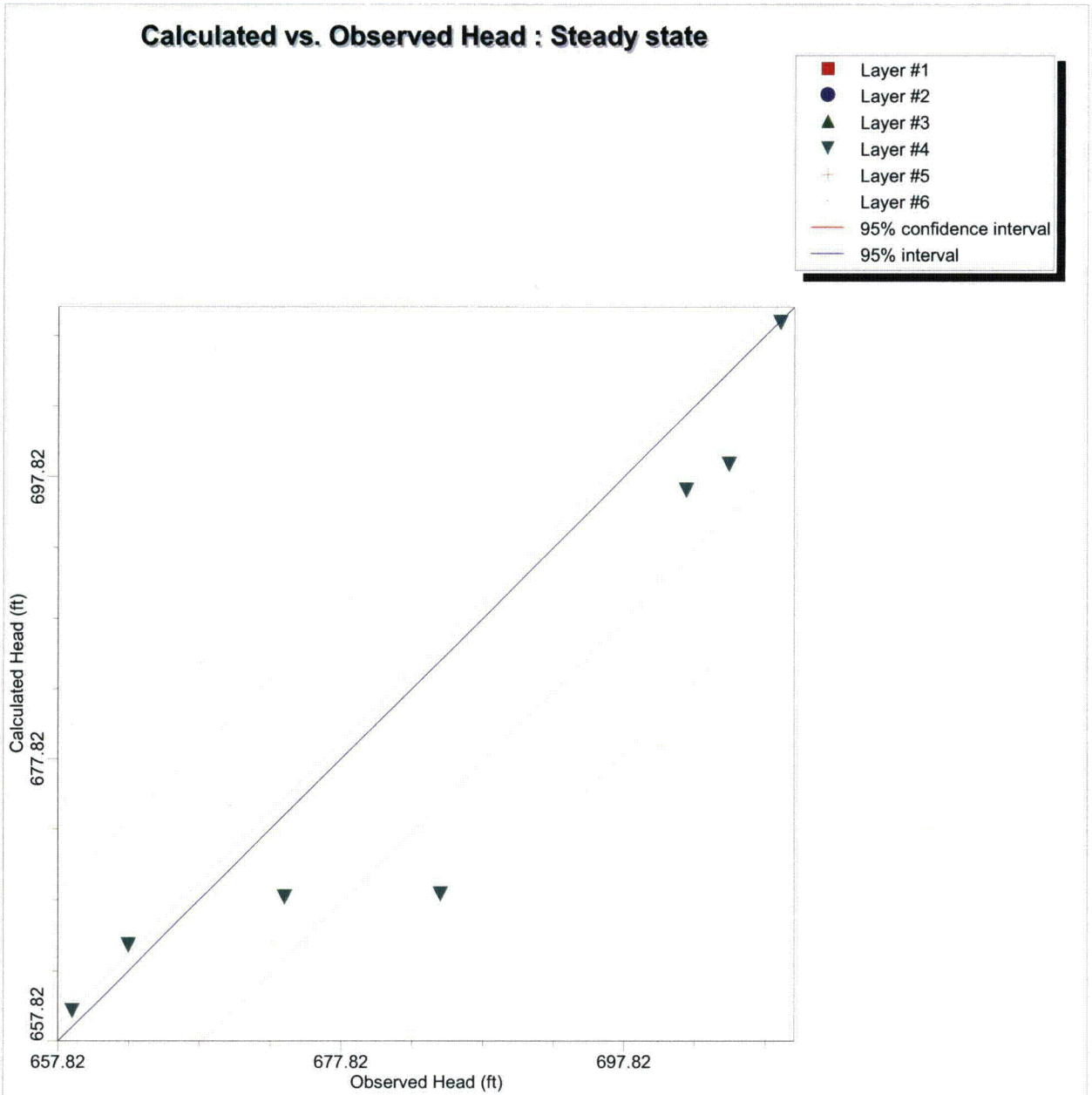


Max. Residual: -30.797 (ft) at MW319B/1
Min. Residual: -0.765 (ft) at MW312B/1
Residual Mean : -13.565 (ft)
Abs. Residual Mean : 13.685 (ft)

Num. of Data Points : 14
Standard Error of the Estimate : 3.011 (ft)
Root Mean Squared : 17.375 (ft)
Normalized RMS : 25.533 (%)
Correlation Coefficient : 0.934

Baseline Head Calibration 2011 Full 12 Month Data, Layer 3

WEAVER BOOS CONSULTANTS 4085 Meghan Beeler Court South Bend, Indiana 46628	Bell Bend Nuclear Power Plant Berwick, Pennsylvania



Max. Residual: -16.586 (ft) at MW310C/1
Min. Residual: -0.129 (ft) at MW305B/1
Residual Mean : -4.489 (ft)
Abs. Residual Mean : 5.348 (ft)

Num. of Data Points : 7
Standard Error of the Estimate : 2.411 (ft)
Root Mean Squared : 7.418 (ft)
Normalized RMS : 14.813 (%)
Correlation Coefficient : 0.952

Baseline Head Calibration 2011 Full 12 Month Data, Layer 4

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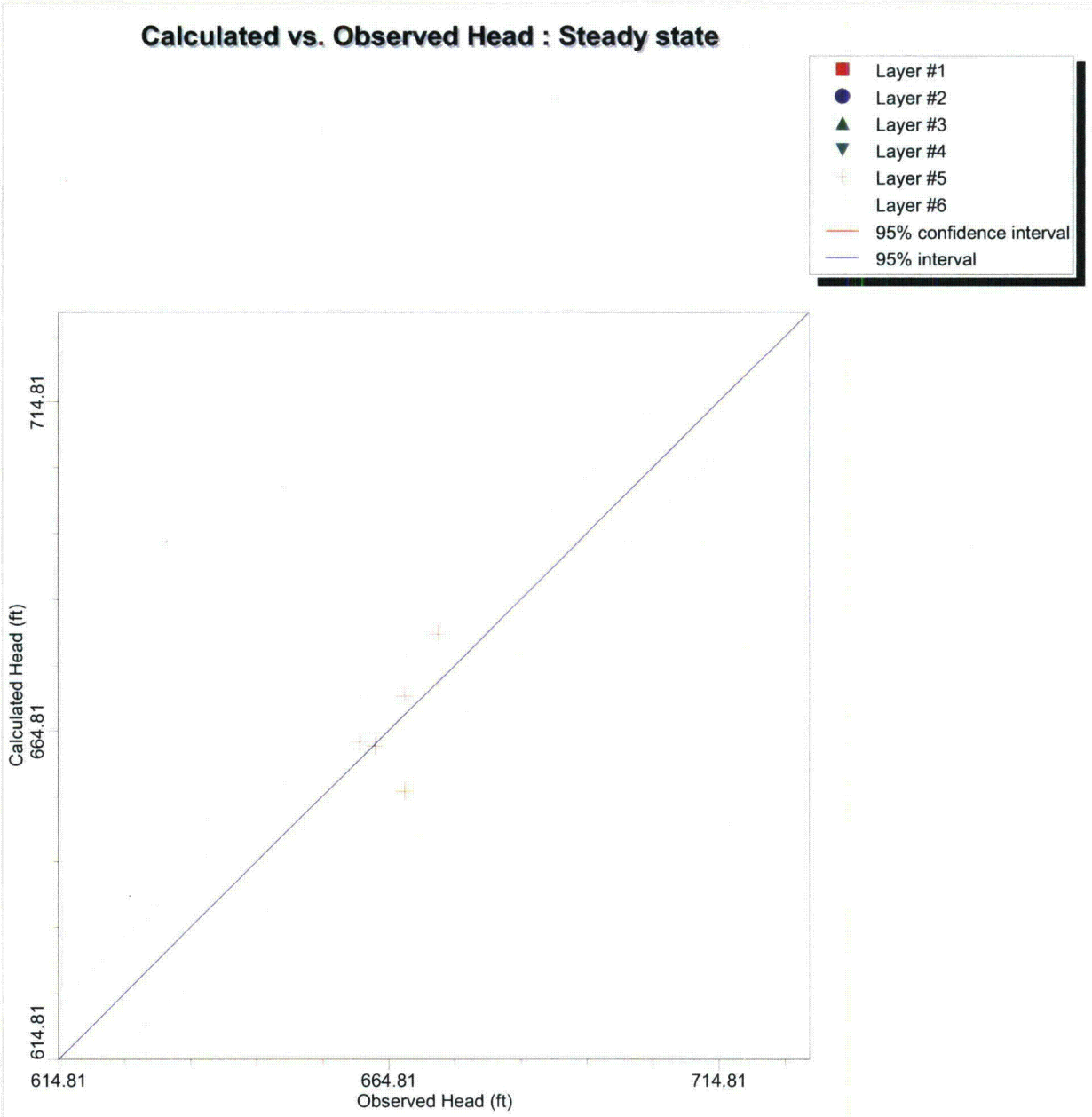
Berwick, Pennsylvania



Max. Residual: -11.701 (ft) at MW309B/1
Min. Residual: -0.264 (ft) at MW301B1/1
Residual Mean : 0.201 (ft)
Abs. Residual Mean : 4.987 (ft)

Num. of Data Points : 5
Standard Error of the Estimate : 3.208 (ft)
Root Mean Squared : 6.419 (ft)
Normalized RMS : 54.079 (%)
Correlation Coefficient : 0.625

Baseline Head Calibration 2011 Full 12 Month Data, Layer 5

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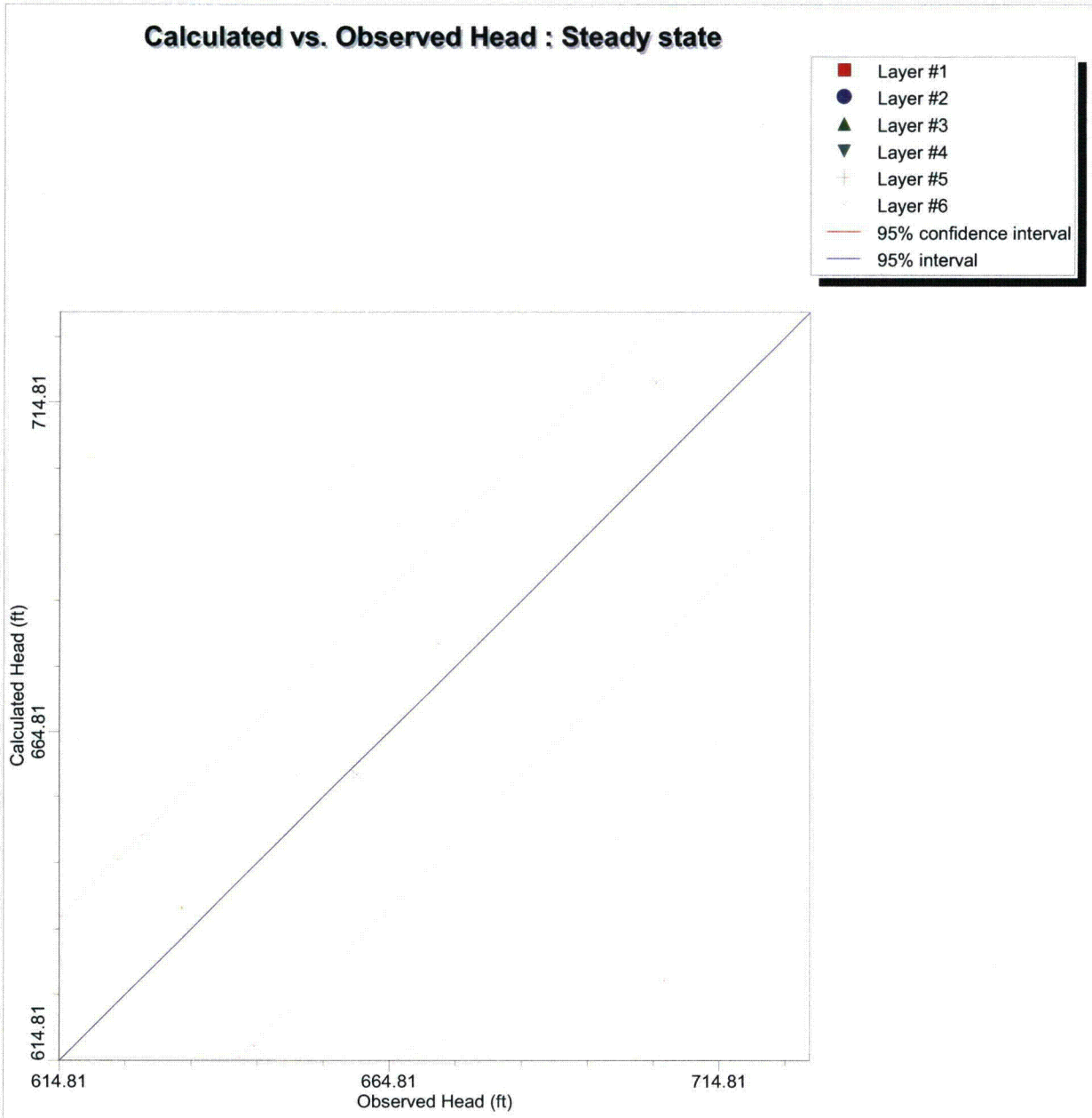
Berwick, Pennsylvania



Max. Residual: -27.4 (ft) at MW307B/1
Min. Residual: -1.772 (ft) at MW306C/1
Residual Mean : -2.613 (ft)
Abs. Residual Mean : 11.973 (ft)

Num. of Data Points : 4
Standard Error of the Estimate : 8.771 (ft)
Root Mean Squared : 15.415 (ft)
Normalized RMS : 25.345 (%)
Correlation Coefficient : 0.979

Baseline Head Calibration 2011 Full 12 Month Data, Layer 6

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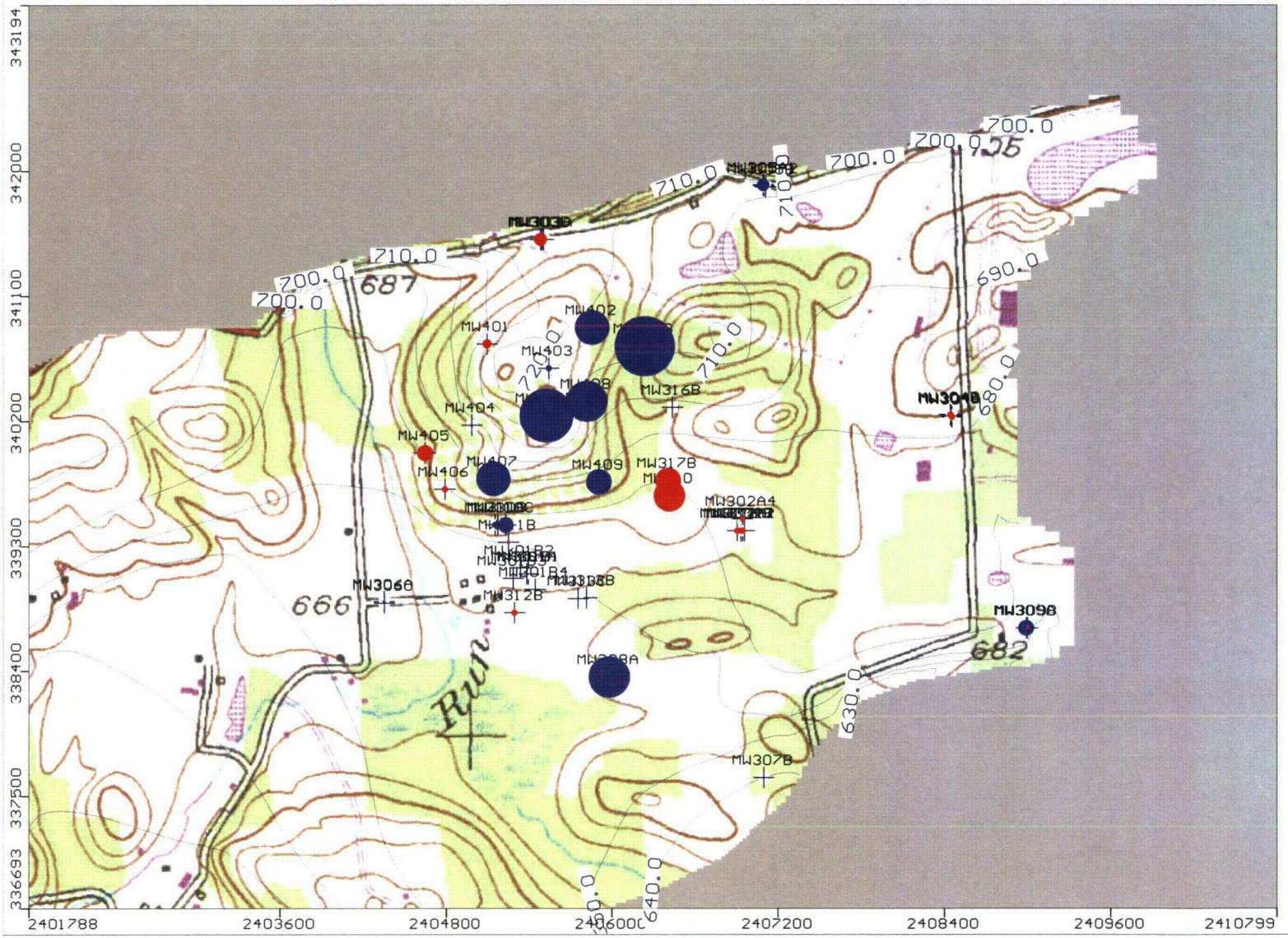
Berwick, Pennsylvania



Calibration Residual Map, All Wells, 12 Month Maximum Water Levels
Red Symbols are Positive Residuals, Blue Symbols are Negative
Head Contours are in Layer 2

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South Bend, Indiana 46628

Bell Bend Nuclear Power Plant
Berwick, Pennsylvania

```
                                MODFLOW-2000
     U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL
                    VERSION 1.18.00 08/23/2007    +OpenMI+SLB


 This model run combines GLOBAL and LIST output into this single file.

 GLOBAL LISTING FILE: K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.LST
                          UNIT    6

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.SIP
 FILE TYPE:SIP   UNIT   19   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.BAS
 FILE TYPE:BAS6   UNIT   10   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.BCF
 FILE TYPE:BCF6   UNIT   11   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.RIV
 FILE TYPE:RIV   UNIT   14   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.GHB
 FILE TYPE:GHB   UNIT   17   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.RCH
 FILE TYPE:RCH   UNIT   18   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.OC
 FILE TYPE:OC   UNIT   22   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.DIS
 FILE TYPE:DIS   UNIT   34   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.CLB
 FILE TYPE:CLB   UNIT   54   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.LMT
 FILE TYPE:LMT6   UNIT  333   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.FLO
 FILE TYPE:DATA(BINARY)   UNIT  175   STATUS:UNKNOWN
 FORMAT:UNFORMATTED           ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.NDC
 FILE TYPE:NDC   UNIT   57   STATUS:OLD
 FORMAT:FORMATTED             ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.HDS
 FILE TYPE:DATA(BINARY)   UNIT  150   STATUS:UNKNOWN
 FORMAT:UNFORMATTED           ACCESS:SEQUENTIAL
```

```
 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.DDN
 FILE TYPE:DATA(BINARY)   UNIT  151   STATUS:UNKNOWN
 FORMAT:UNFORMATTED           ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.BGT
 FILE TYPE:DATA(BINARY)   UNIT  154   STATUS:UNKNOWN
 FORMAT:UNFORMATTED           ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.sig
 FILE TYPE:DATA(BINARY)   UNIT  152   STATUS:UNKNOWN
 FORMAT:UNFORMATTED           ACCESS:SEQUENTIAL

 OPENING K:\Wbgm\Client Information\2500-2599\2524\301\01\01\MODFlow
083110\BBNPPBaseline0\BBNPPBaseline0.HVT
 FILE TYPE:DATA(BINARY)   UNIT  153   STATUS:UNKNOWN
 FORMAT:UNFORMATTED           ACCESS:SEQUENTIAL


 DISCRETIZATION INPUT DATA READ FROM UNIT   34
 #Discretization Package translator - (c) 2001 Waterloo Hydrogeologic Software
 #BBNPPBASELINE0.DIS Thu Sep 09 10:28:20 2010
    7 LAYERS       316 ROWS       245 COLUMNS
    1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS DAYS
 MODEL LENGTH UNIT IS FEET
  --- GUI Regime ---
 THE GROUND-WATER TRANSPORT PROCESS IS INACTIVE

 THE OBSERVATION PROCESS IS INACTIVE
 THE SENSITIVITY PROCESS IS INACTIVE
 THE PARAMETER-ESTIMATION PROCESS IS INACTIVE

 MODE: FORWARD

  Confining bed flag for each layer:
   0   0   0   0   0   0   0

    4878021  ELEMENTS OF GX ARRAY USED OUT OF    4878021
     541940  ELEMENTS OF GZ ARRAY USED OUT OF     541940
     541940  ELEMENTS OF IG ARRAY USED OUT OF     541940


                              DELR
 READING ON UNIT   34 WITH FORMAT: (10E16.9)


                              DELC
 READING ON UNIT   34 WITH FORMAT: (10E16.9)


          TOP ELEVATION OF LAYER 1
 READING ON UNIT   34 WITH FORMAT: (10E14.7)


            MODEL LAYER BOTTOM EL. FOR LAYER   1
 READING ON UNIT   34 WITH FORMAT: (10E14.7)


            MODEL LAYER BOTTOM EL. FOR LAYER   2
 READING ON UNIT   34 WITH FORMAT: (10E14.7)


            MODEL LAYER BOTTOM EL. FOR LAYER   3
 READING ON UNIT   34 WITH FORMAT: (10E14.7)
```

```
            MODEL LAYER BOTTOM EL. FOR LAYER   4
 READING ON UNIT   34 WITH FORMAT: (10E14.7)


            MODEL LAYER BOTTOM EL. FOR LAYER   5
 READING ON UNIT   34 WITH FORMAT: (10E14.7)


            MODEL LAYER BOTTOM EL. FOR LAYER   6
 READING ON UNIT   34 WITH FORMAT: (10E14.7)


            MODEL LAYER BOTTOM EL. FOR LAYER   7
 READING ON UNIT   34 WITH FORMAT: (10E14.7)

 STRESS PERIOD     LENGTH       TIME STEPS     MULTIPLIER FOR DELT    SS FLAG
 ------------------------------------------------------------------------------
        1         1095.000          1                    1.000         SS

 STEADY-STATE SIMULATION



 SIP5 -- STRONGLY IMPLICIT PROCEDURE SOLUTION PACKAGE
                   VERSION 5, 9/1/93 INPUT READ FROM UNIT    1
 MAXIMUM OF2000 ITERATIONS ALLOWED FOR CLOSURE
  6 ITERATION PARAMETERS
    2169766 ELEMENTS IN X ARRAY ARE USED BY SIP
       6000 ELEMENTS IN IX ARRAY ARE USED BY SIP
0CAL2 -- W.H.S. CALIBRATION PACKAGE INPUT READ FROM UNIT 54
 icalin:         152
 passport%m_data_field_count:          1
 passport%m_passport_reccount:         48
 Success
 # OF CAL POINTS :   48

         48 ELEMENTS IN X ARRAY ARE USED FOR CALIBRATION POINTS

    2169814  ELEMENTS OF X ARRAY USED OUT OF    2169814
          0  ELEMENTS OF Z ARRAY USED OUT OF          1
       6000  ELEMENTS OF IX ARRAY USED OUT OF       6000
          0  ELEMENTS OF XHS ARRAY USED OUT OF          1
 CALIBRATION POINTS
 ------------------
       1       1     148     132 0.56418390D+04 0.53516000D+04
       2       5     148     131 0.56293930D+04 0.53525410D+04
       3       5     146     129 0.55836390D+04 0.53965870D+04
       4       3     150     127 0.55337420D+04 0.53228980D+04
       5       3     154     133 0.56900840D+04 0.52413880D+04
       6       1     134     193 0.71848510D+04 0.56636000D+04
       7       1     134     192 0.71707820D+04 0.56636000D+04
       8       1     134     191 0.71450320D+04 0.56636000D+04
       9       1     130     193 0.71845270D+04 0.57486000D+04
      10       5     134     193 0.71992770D+04 0.56636000D+04
      11       1      37     136 0.57504180D+04 0.77586000D+04
      12       3      37     135 0.57385320D+04 0.77582070D+04
      13       6      37     135 0.57284730D+04 0.77576000D+04
      14       1      96     226 0.87004870D+04 0.64816000D+04
      15       5      95     226 0.86885610D+04 0.64986140D+04
      16       6      96     226 0.86947020D+04 0.64896000D+04
      17       1      20     198 0.73359600D+04 0.81496000D+04
      18       1      20     198 0.73419200D+04 0.81426000D+04
      19       4      20     199 0.73531960D+04 0.81341080D+04
      20       1     158      90 0.45967800D+04 0.51536000D+04
      21       6     158      90 0.45985930D+04 0.51426000D+04
      22       1     216     198 0.73311010D+04 0.38866000D+04
      23       6     216     198 0.73418040D+04 0.38866000D+04
      24       1     183     155 0.62249140D+04 0.46096000D+04
      25       1     167     232 0.92343070D+04 0.49616000D+04
      26       5     166     232 0.92441970D+04 0.49623110D+04
      27       2     132     122 0.54014060D+04 0.57076000D+04
```

```
      28        4      132      123 0.54215200D+04 0.57083080D+04
      29        4      132      125 0.54781720D+04 0.57056000D+04
      30        4      138      126 0.54980510D+04 0.55818850D+04
      31        3      161      128 0.55428080D+04 0.50742230D+04
      32        3      156      148 0.60606870D+04 0.51815190D+04
      33        4      157      146 0.59998960D+04 0.51761410D+04
      34        3       73      165 0.64795740D+04 0.69919030D+04
      35        3       93      173 0.66790390D+04 0.65517770D+04
      36        2      117      171 0.66465850D+04 0.60260870D+04
      37        2       84      136 0.57614340D+04 0.67467790D+04
      38        3       96      137 0.57732450D+04 0.64930580D+04
      39        4       72      120 0.53427900D+04 0.70068500D+04
      40        3       66      150 0.61010500D+04 0.71242600D+04
      41        4       80      137 0.57874800D+04 0.68328800D+04
      42        3       99      115 0.52304100D+04 0.64241000D+04
      43        2      108      102 0.48914600D+04 0.62240700D+04
      44        3      120      108 0.50349200D+04 0.59639500D+04
      45        3      117      122 0.53893600D+04 0.60385300D+04
      46        3       91      148 0.60649900D+04 0.65959000D+04
      47        3      118      152 0.61504600D+04 0.60142500D+04
      48        1      122      172 0.66572200D+04 0.59157100D+04


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

#Basic Package translator - (c) 2001 Waterloo Hydrogeologic Software
#BBNPPBASELINE0.BAS Thu Sep 09 10:27:25 2010
   7 LAYERS       316 ROWS       245 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION

BAS6 -- BASIC PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   10
        35 ELEMENTS IN IR ARRAY ARE USED BY BAS

BCF6 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 6, 1/11/2000
        INPUT READ FROM UNIT 11
STEADY-STATE SIMULATION
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT154
HEAD AT CELLS THAT CONVERT TO DRY= -0.10000E+31
WETTING CAPABILITY IS ACTIVE
WETTING FACTOR=   0.50000     WETTING ITERATION INTERVAL=   2
FLAG THAT SPECIFIES THE EQUATION TO USE FOR HEAD AT WETTED CELLS=   0
     LAYER  LAYER-TYPE CODE     INTERBLOCK T
     ---------------------------------------------
        1            3          0 -- HARMONIC
        2            3          0 -- HARMONIC
        3            3          0 -- HARMONIC
        4            3          0 -- HARMONIC
        5            3          0 -- HARMONIC
        6            3          0 -- HARMONIC
        7            3          0 -- HARMONIC
   1625827 ELEMENTS IN RX ARRAY ARE USED BY BCF

RIV6 -- RIVER PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   14
No named parameters
MAXIMUM OF    521 ACTIVE RIVER REACHES AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT  154
      3126 ELEMENTS IN RX ARRAY ARE USED BY RIV

GHB6 -- GHB PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   17
No named parameters
MAXIMUM OF    292 ACTIVE GHB CELLS AT ONE TIME
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT  154
      1460 ELEMENTS IN RX ARRAY ARE USED BY GHB

RCH6 -- RECHARGE PACKAGE, VERSION 6, 1/11/2000 INPUT READ FROM UNIT   18
No named parameters
OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT  154
```

```
     77420 ELEMENTS IN RX ARRAY ARE USED BY RCH
     77420 ELEMENTS IN IR ARRAY ARE USED BY RCH

   1707833  ELEMENTS OF RX ARRAY USED OUT OF    1707833
         0  ELEMENTS OF RZ ARRAY USED OUT OF          1
     77455  ELEMENTS OF IR ARRAY USED OUT OF      77455
1
 #Basic Package translator - (c) 2001 Waterloo Hydrogeologic Software
 #BBNPPBASELINE0.BAS Thu Sep 09 10:27:25 2010


                     BOUNDARY ARRAY FOR LAYER   1
 READING ON UNIT   10 WITH FORMAT: (40I2)


                     BOUNDARY ARRAY FOR LAYER   2
 READING ON UNIT   10 WITH FORMAT: (40I2)


                     BOUNDARY ARRAY FOR LAYER   3
 READING ON UNIT   10 WITH FORMAT: (40I2)


                     BOUNDARY ARRAY FOR LAYER   4
 READING ON UNIT   10 WITH FORMAT: (40I2)


                     BOUNDARY ARRAY FOR LAYER   5
 READING ON UNIT   10 WITH FORMAT: (40I2)


                     BOUNDARY ARRAY FOR LAYER   6
 READING ON UNIT   10 WITH FORMAT: (40I2)


                     BOUNDARY ARRAY FOR LAYER   7
 READING ON UNIT   10 WITH FORMAT: (40I2)

 AQUIFER HEAD WILL BE SET TO 1.00000E+30 AT ALL NO-FLOW NODES (IBOUND=0).


                        INITIAL HEAD FOR LAYER   1
 READING ON UNIT   10 WITH FORMAT:  (10G12.5)


                        INITIAL HEAD FOR LAYER   2
 READING ON UNIT   10 WITH FORMAT:  (10G12.5)


                        INITIAL HEAD FOR LAYER   3
 READING ON UNIT   10 WITH FORMAT:  (10G12.5)


                        INITIAL HEAD FOR LAYER   4
 READING ON UNIT   10 WITH FORMAT:  (10G12.5)


                        INITIAL HEAD FOR LAYER   5
 READING ON UNIT   10 WITH FORMAT:  (10G12.5)


                        INITIAL HEAD FOR LAYER   6
 READING ON UNIT   10 WITH FORMAT:  (10G12.5)
```

```
                    INITIAL HEAD FOR LAYER   7
READING ON UNIT   10 WITH FORMAT:  (10G12.5)

OUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
HEAD PRINT FORMAT CODE IS   0    DRAWDOWN PRINT FORMAT CODE IS   0
HEADS WILL BE SAVED ON UNIT  150    DRAWDOWNS WILL BE SAVED ON UNIT  151


         COLUMN TO ROW ANISOTROPY
READING ON UNIT   11 WITH FORMAT: (10G11.4)


            HYD. COND. ALONG ROWS FOR LAYER   1
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


          VERT HYD COND /THICKNESS FOR LAYER   1
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


                  WETDRY PARAMETER FOR LAYER   1
READING ON UNIT   11 WITH FORMAT:  (10G11.4)

   HYD. COND. ALONG ROWS =   1.53920     FOR LAYER   2


          VERT HYD COND /THICKNESS FOR LAYER   2
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


                  WETDRY PARAMETER FOR LAYER   2
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


            HYD. COND. ALONG ROWS FOR LAYER   3
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


          VERT HYD COND /THICKNESS FOR LAYER   3
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


                  WETDRY PARAMETER FOR LAYER   3
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


            HYD. COND. ALONG ROWS FOR LAYER   4
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


          VERT HYD COND /THICKNESS FOR LAYER   4
READING ON UNIT   11 WITH FORMAT:  (10G11.4)


                  WETDRY PARAMETER FOR LAYER   4
READING ON UNIT   11 WITH FORMAT:  (10G11.4)

   HYD. COND. ALONG ROWS =  0.464880     FOR LAYER   5
```

VERT HYD COND /THICKNESS FOR LAYER 5
READING ON UNIT 11 WITH FORMAT: (10G11.4)

WETDRY PARAMETER FOR LAYER 5
READING ON UNIT 11 WITH FORMAT: (10G11.4)

HYD. COND. ALONG ROWS = 0.464880 FOR LAYER 6

VERT HYD COND /THICKNESS FOR LAYER 6
READING ON UNIT 11 WITH FORMAT: (10G11.4)

WETDRY PARAMETER FOR LAYER 6
READING ON UNIT 11 WITH FORMAT: (10G11.4)

HYD. COND. ALONG ROWS = 0.464880 FOR LAYER 7

WETDRY PARAMETER FOR LAYER 7
READING ON UNIT 11 WITH FORMAT: (10G11.4)

0 River parameters

0 GHB parameters

0 Recharge parameters
1

STRESS PERIOD NO. 1, LENGTH = 1095.000

NUMBER OF TIME STEPS = 1

MULTIPLIER FOR DELT = 1.000

INITIAL TIME STEP SIZE = 1095.000

REACH NO.	LAYER	ROW	COL	STAGE	CONDUCTANCE	BOTTOM EL.
1	1	301	10	608.3	139.0	607.3
2	1	300	10	609.1	705.6	608.1
3	1	299	10	609.9	705.0	608.9
4	1	298	10	610.7	707.6	609.7
5	1	297	10	611.5	709.9	610.5
6	1	296	10	612.3	482.2	611.3
7	1	305	11	603.9	804.0	602.9
8	1	304	11	604.7	727.6	603.7
9	1	303	11	605.5	719.3	604.5
10	1	302	11	606.3	714.9	605.3
11	1	301	11	607.1	569.8	606.1
12	1	296	11	613.4	227.7	612.4
13	1	295	11	614.2	709.6	613.2
14	1	294	11	615.0	709.0	614.0
15	1	293	11	615.8	709.0	614.8
16	1	292	11	616.6	729.3	615.6
17	1	291	11	617.4	590.2	616.4
18	1	307	12	601.7	869.7	600.7
19	1	306	12	602.6	840.8	601.6
20	1	291	12	618.4	150.5	617.4
21	1	290	12	619.2	740.7	618.2
22	1	289	12	620.0	338.5	619.0
23	1	288	12	620.0	839.4	619.0
24	1	287	12	620.3	65.33	619.3
25	1	309	13	599.3	320.2	598.3
26	1	308	13	600.3	1060.	599.3
27	1	287	13	620.8	697.0	619.8
28	1	286	13	621.1	710.3	620.1
29	1	285	13	621.5	705.5	620.5

30	1	284	13	621.8	692.1	620.8
31	1	283	13	622.2	743.8	621.2
32	1	282	13	622.5	221.6	621.5
33	1	311	14	595.8	793.1	594.8
34	1	310	14	597.1	1185.	596.1
35	1	309	14	598.3	682.8	597.3
36	1	282	14	623.0	1021.	622.0
37	1	312	15	593.3	292.0	592.3
38	1	311	15	594.9	909.0	593.9
39	1	282	15	623.4	831.9	622.4
40	1	312	16	592.4	998.0	591.4
41	1	282	16	623.8	827.9	622.8
42	1	312	17	591.4	1031.	590.4
43	1	282	17	624.2	848.2	623.2
44	1	314	18	587.2	1014.	586.2
45	1	313	18	589.4	1780.	588.4
46	1	282	18	624.6	341.5	623.6
47	1	281	18	625.0	898.2	624.0
48	1	314	19	586.3	1247.	585.3
49	1	281	19	625.4	594.2	624.4
50	1	280	19	625.7	234.7	624.7
51	1	315	20	582.8	137.5	581.8
52	1	314	20	585.3	735.0	584.3
53	1	280	20	626.1	889.8	625.1
54	1	315	21	581.9	992.8	580.9
55	1	280	21	626.5	401.0	625.5
56	1	279	21	626.9	807.1	625.9
57	1	278	21	627.2	200.7	626.2
58	1	315	22	580.9	1179.	579.9
59	1	278	22	627.6	901.6	626.6
60	1	315	23	580.0	886.6	579.0
61	1	277	23	628.2	953.6	627.2
62	1	276	23	628.5	700.0	627.5
63	1	275	23	629.4	604.0	628.4
64	1	274	23	629.8	692.2	628.8
65	1	273	23	630.1	691.4	629.1
66	1	272	23	630.5	334.0	629.5
67	1	275	24	629.0	93.10	628.0
68	1	272	24	630.9	578.9	629.9
69	1	271	24	631.2	534.1	630.2
70	1	271	25	631.6	465.4	630.6
71	1	270	25	632.0	647.7	631.0
72	1	270	26	632.4	433.0	631.4
73	1	269	26	632.7	509.3	631.7
74	1	269	27	633.1	912.0	632.1
75	1	269	28	633.5	44.16	632.5
76	1	268	28	633.9	867.9	632.9
77	1	268	29	634.3	461.1	633.3
78	1	267	29	634.6	680.7	633.6
79	1	267	30	635.0	181.7	634.0
80	1	266	30	635.3	840.7	634.3
81	1	265	30	635.7	220.9	634.7
82	1	265	31	636.1	592.7	635.1
83	1	264	31	636.4	668.3	635.4
84	1	263	31	636.7	315.7	635.7
85	1	263	32	637.1	300.0	636.1
86	1	262	32	637.3	582.7	636.3
87	1	261	32	637.6	548.8	636.6
88	1	260	32	637.8	515.8	636.8
89	1	259	33	638.3	397.4	637.3
90	1	258	33	638.5	715.7	637.5
91	1	258	34	638.9	518.1	637.9
92	1	257	34	639.1	334.8	638.1
93	1	257	35	639.5	852.9	638.5
94	1	256	36	640.0	459.3	639.0
95	1	257	37	640.0	87.40	639.0
96	1	256	37	640.1	567.5	639.1
97	1	255	38	640.4	530.1	639.4
98	1	254	38	640.6	545.4	639.6
99	1	253	39	640.9	823.2	639.9
100	1	252	40	641.2	757.3	640.2
101	1	252	41	641.4	172.3	640.4
102	1	251	41	641.6	675.8	640.6
103	1	250	41	641.7	135.3	640.7
104	1	250	42	641.9	331.5	640.9
105	1	249	42	642.1	465.7	641.1

106	1	248	42	642.2	416.3	641.2
107	1	247	43	642.5	464.7	641.5
108	1	246	43	642.6	464.5	641.6
109	1	245	43	642.7	207.3	641.7
110	1	245	44	643.0	329.7	642.0
111	1	244	44	643.1	540.6	642.1
112	1	243	44	643.2	182.9	642.2
113	1	243	45	643.5	358.6	642.5
114	1	242	45	643.6	545.4	642.6
115	1	242	46	643.9	827.4	642.9
116	1	242	47	644.2	142.1	643.2
117	1	241	47	644.3	465.6	643.3
118	1	240	47	644.4	465.6	643.4
119	1	239	48	644.7	355.2	643.7
120	1	238	48	644.8	372.7	643.8
121	1	237	48	644.9	372.7	643.9
122	1	236	48	645.1	372.7	644.1
123	1	235	48	645.2	372.7	644.2
124	1	234	49	645.5	275.4	644.5
125	1	233	49	645.6	370.8	644.6
126	1	232	49	645.7	370.8	644.7
127	1	231	49	645.8	370.8	644.8
128	1	230	49	645.9	348.6	644.9
129	1	229	49	646.1	346.1	645.1
130	1	228	49	646.2	346.1	645.2
131	1	227	49	646.3	346.1	645.3
132	1	226	49	646.4	512.0	645.4
133	1	225	50	646.7	613.5	645.7
134	1	224	50	646.8	452.4	645.8
135	1	223	51	647.1	431.7	646.1
136	1	222	51	647.2	452.4	646.2
137	1	221	51	647.4	368.8	646.4
138	1	221	52	647.6	83.67	646.6
139	1	220	52	647.7	452.4	646.7
140	1	219	52	647.9	427.5	646.9
141	1	218	52	648.0	379.2	647.0
142	1	218	53	648.3	36.72	647.3
143	1	217	53	648.4	415.6	647.4
144	1	216	53	648.5	403.6	647.5
145	1	215	53	648.6	403.6	647.6
146	1	214	53	648.7	267.5	647.7
147	1	214	54	649.0	136.1	648.0
148	1	213	54	649.1	403.6	648.1
149	1	212	54	649.2	403.6	648.2
150	1	211	54	649.3	405.6	648.3
151	1	210	55	649.6	236.2	648.6
152	1	209	55	649.8	419.3	648.8
153	1	208	55	649.9	419.3	648.9
154	1	207	55	650.0	333.0	649.0
155	1	207	56	650.3	86.32	649.3
156	1	206	56	650.4	419.3	649.4
157	1	205	56	650.5	434.3	649.5
158	1	204	56	650.6	378.9	649.6
159	1	203	57	650.9	448.3	649.9
160	1	202	57	651.0	448.3	650.0
161	1	201	57	651.1	258.5	650.1
162	1	200	58	651.4	430.3	650.4
163	1	199	58	651.5	412.2	650.5
164	1	198	58	651.7	307.2	650.7
165	1	197	59	651.9	412.2	650.9
166	1	196	59	652.1	412.2	651.1
167	1	195	59	652.2	402.3	651.2
168	1	194	59	652.3	87.29	651.3
169	1	194	60	652.5	304.3	651.5
170	1	193	60	652.7	391.6	651.7
171	1	192	60	652.8	391.6	651.8
172	1	191	60	652.9	391.6	651.9
173	1	190	60	653.0	82.52	652.0
174	1	190	61	653.3	773.9	652.3
175	1	191	62	653.5	703.0	652.5
176	1	191	63	653.8	663.5	652.8
177	1	192	64	654.1	349.3	653.1
178	1	191	64	654.0	283.3	653.0
179	1	192	65	654.3	601.2	653.3
180	1	192	66	654.5	483.6	653.5
181	1	191	67	654.7	595.2	653.7

182	1	191	68	654.9	42.24	653.9
183	1	190	68	655.0	186.9	654.0
184	1	189	68	655.0	137.2	654.0
185	1	189	69	655.0	290.1	654.0
186	1	188	69	655.0	393.3	654.0
187	1	187	70	655.0	489.4	654.0
188	1	50	70	669.9	377.0	668.9
189	1	49	70	670.0	122.6	669.0
190	1	186	71	655.0	457.7	654.0
191	1	53	71	669.4	363.4	668.4
192	1	52	71	669.5	377.1	668.5
193	1	51	71	669.7	333.1	668.7
194	1	186	72	655.0	444.9	654.0
195	1	57	72	668.8	200.8	667.8
196	1	56	72	668.9	353.9	667.9
197	1	55	72	669.0	377.3	668.0
198	1	54	72	669.2	377.3	668.2
199	1	186	73	655.0	435.2	654.0
200	1	74	73	666.4	306.9	665.4
201	1	73	73	666.5	345.6	665.5
202	1	72	73	666.6	345.6	665.6
203	1	71	73	666.8	345.3	665.8
204	1	70	73	666.9	344.3	665.9
205	1	69	73	667.0	344.2	666.0
206	1	68	73	667.2	344.2	666.2
207	1	67	73	667.3	344.1	666.3
208	1	66	73	667.4	344.1	666.4
209	1	65	73	667.6	344.1	666.6
210	1	64	73	667.7	344.0	666.7
211	1	63	73	667.8	344.0	666.8
212	1	62	73	668.0	347.6	667.0
213	1	61	73	668.1	349.5	667.1
214	1	60	73	668.2	349.4	667.2
215	1	59	73	668.3	349.4	667.3
216	1	58	73	668.5	349.3	667.5
217	1	57	73	668.6	148.5	667.6
218	1	186	74	655.0	187.4	654.0
219	1	185	74	655.0	240.6	654.0
220	1	80	74	665.5	188.1	664.5
221	1	79	74	665.6	374.1	664.6
222	1	78	74	665.8	365.5	664.8
223	1	77	74	665.9	345.9	664.9
224	1	76	74	666.0	345.8	665.0
225	1	75	74	666.2	345.8	665.2
226	1	185	75	655.0	361.6	654.0
227	1	83	75	664.9	128.4	663.9
228	1	82	75	665.1	374.3	664.1
229	1	81	75	665.2	374.3	664.2
230	1	80	75	665.3	186.1	664.3
231	1	186	76	655.0	486.6	654.0
232	1	84	76	664.7	428.0	663.7
233	1	83	76	664.8	250.6	663.8
234	1	187	77	655.0	423.7	654.0
235	1	86	77	664.3	347.5	663.3
236	1	85	77	664.4	341.1	663.4
237	1	188	78	655.0	400.4	654.0
238	1	187	78	655.0	185.9	654.0
239	1	88	78	663.9	175.4	662.9
240	1	87	78	664.0	428.3	663.0
241	1	86	78	664.2	80.62	663.2
242	1	189	79	655.0	463.0	654.0
243	1	188	79	655.0	62.63	654.0
244	1	89	79	663.6	371.9	662.6
245	1	88	79	663.7	265.6	662.7
246	1	191	80	655.0	285.2	654.0
247	1	190	80	655.0	364.5	654.0
248	1	90	80	663.3	447.7	662.3
249	1	89	80	663.5	75.73	662.5
250	1	192	81	655.0	438.4	654.0
251	1	92	81	663.0	302.2	662.0
252	1	91	81	663.1	334.4	662.1
253	1	193	82	655.0	464.6	654.0
254	1	93	82	662.7	457.4	661.7
255	1	92	82	662.8	145.8	661.8
256	1	194	83	655.0	318.7	654.0
257	1	193	83	655.0	145.8	654.0

258	1	94	83	662.5	489.2	661.5
259	1	194	84	655.0	387.2	654.0
260	1	95	84	662.3	423.3	661.3
261	1	195	85	655.0	464.4	654.0
262	1	96	85	662.1	104.5	661.1
263	1	195	86	655.0	409.6	654.0
264	1	100	86	662.7	278.0	661.7
265	1	99	86	662.7	352.1	661.7
266	1	98	86	662.8	352.1	661.8
267	1	97	86	662.9	75.72	661.9
268	1	195	87	655.0	408.8	654.0
269	1	104	87	662.3	135.6	661.3
270	1	103	87	662.4	380.7	661.4
271	1	102	87	662.5	366.2	661.5
272	1	101	87	662.5	352.1	661.5
273	1	195	88	655.0	408.8	654.0
274	1	106	88	662.0	345.6	661.0
275	1	105	88	662.1	380.7	661.1
276	1	104	88	662.2	245.1	661.2
277	1	195	89	655.0	407.9	654.0
278	1	109	89	661.7	174.8	660.7
279	1	108	89	661.8	380.7	660.8
280	1	107	89	661.9	380.7	660.9
281	1	195	90	655.0	406.7	654.0
282	1	111	90	661.5	223.4	660.5
283	1	110	90	661.6	397.1	660.6
284	1	109	90	661.7	212.6	660.7
285	1	194	91	655.0	351.4	654.0
286	1	113	91	661.2	254.8	660.2
287	1	112	91	661.3	397.1	660.3
288	1	111	91	661.4	173.7	660.4
289	1	194	92	655.0	406.7	654.0
290	1	119	92	660.7	349.3	659.7
291	1	118	92	660.8	349.3	659.8
292	1	117	92	660.9	349.3	659.9
293	1	116	92	660.9	349.3	659.9
294	1	115	92	661.0	349.3	660.0
295	1	114	92	661.1	364.3	660.1
296	1	194	93	655.0	406.7	654.0
297	1	125	93	660.2	147.9	659.2
298	1	124	93	660.3	355.4	659.3
299	1	123	93	660.3	355.4	659.3
300	1	122	93	660.4	355.4	659.4
301	1	121	93	660.5	355.4	659.5
302	1	120	93	660.6	309.4	659.6
303	1	194	94	655.0	416.4	654.0
304	1	130	94	659.7	226.9	658.7
305	1	129	94	659.8	354.2	658.8
306	1	128	94	659.8	355.4	658.8
307	1	127	94	659.9	355.4	658.9
308	1	126	94	660.0	355.4	659.0
309	1	125	94	660.1	207.5	659.1
310	1	194	95	655.0	428.6	654.0
311	1	136	95	659.1	219.8	658.1
312	1	135	95	659.2	351.8	658.2
313	1	134	95	659.3	351.8	658.3
314	1	133	95	659.3	351.8	658.3
315	1	132	95	659.4	351.8	658.4
316	1	131	95	659.5	351.8	658.5
317	1	130	95	659.6	124.8	658.6
318	1	193	96	655.0	430.7	654.0
319	1	139	96	658.8	266.3	657.8
320	1	138	96	658.8	369.6	657.8
321	1	137	96	658.9	369.6	657.9
322	1	136	96	659.0	147.1	658.0
323	1	193	97	655.0	343.7	654.0
324	1	192	97	655.0	223.6	654.0
325	1	142	97	658.5	310.1	657.5
326	1	141	97	658.6	369.6	657.6
327	1	140	97	658.6	369.6	657.6
328	1	192	98	655.0	219.6	654.0
329	1	191	98	655.0	428.3	654.0
330	1	144	98	658.3	305.6	657.3
331	1	143	98	658.4	407.5	657.4
332	1	190	99	655.0	486.4	654.0
333	1	146	99	658.0	183.7	657.0

334	1	145	99	658.1	419.3	657.1
335	1	144	99	658.2	113.7	657.2
336	1	190	100	655.0	407.5	654.0
337	1	147	100	657.8	419.3	656.8
338	1	146	100	657.9	235.7	656.9
339	1	190	101	655.0	407.5	654.0
340	1	157	101	657.0	290.8	656.0
341	1	156	101	657.1	347.1	656.1
342	1	155	101	657.1	347.1	656.1
343	1	154	101	657.2	347.1	656.2
344	1	153	101	657.3	346.7	656.3
345	1	152	101	657.4	346.7	656.4
346	1	151	101	657.5	346.7	656.5
347	1	150	101	657.6	346.7	656.6
348	1	149	101	657.6	346.7	656.6
349	1	148	101	657.7	346.5	656.7
350	1	190	102	655.0	309.0	654.0
351	1	189	102	655.0	98.56	654.0
352	1	158	102	656.9	445.7	655.9
353	1	189	103	655.0	454.5	654.0
354	1	159	103	656.7	486.3	655.7
355	1	189	104	655.0	264.7	654.0
356	1	188	104	655.0	290.1	654.0
357	1	160	104	656.6	510.2	655.6
358	1	188	105	655.0	215.9	654.0
359	1	187	105	655.0	338.9	654.0
360	1	163	105	656.3	222.3	655.3
361	1	162	105	656.4	372.7	655.4
362	1	161	105	656.5	389.6	655.5
363	1	194	106	655.0	111.9	654.0
364	1	187	106	655.0	167.1	654.0
365	1	186	106	655.0	387.6	654.0
366	1	166	106	656.0	193.9	655.0
367	1	165	106	656.1	372.7	655.1
368	1	164	106	656.2	372.7	655.2
369	1	163	106	656.2	150.4	655.2
370	1	193	107	655.0	869.6	654.0
371	1	185	107	655.0	458.1	654.0
372	1	169	107	655.7	270.3	654.7
373	1	168	107	655.7	367.2	654.7
374	1	167	107	655.8	368.0	654.8
375	1	166	107	655.9	178.9	654.9
376	1	193	108	655.0	525.5	654.0
377	1	192	108	655.0	406.8	654.0
378	1	184	108	655.0	450.5	654.0
379	1	183	108	655.0	158.6	654.0
380	1	172	108	655.4	367.2	654.4
381	1	171	108	655.4	367.2	654.4
382	1	170	108	655.5	367.2	654.5
383	1	192	109	655.0	932.3	654.0
384	1	183	109	655.0	291.9	654.0
385	1	182	109	655.0	340.3	654.0
386	1	176	109	655.0	108.7	654.0
387	1	175	109	655.1	367.2	654.1
388	1	174	109	655.2	367.2	654.2
389	1	173	109	655.2	355.5	654.2
390	1	191	110	655.0	876.3	654.0
391	1	181	110	655.0	356.1	654.0
392	1	180	110	655.0	346.1	654.0
393	1	179	110	655.0	346.1	654.0
394	1	178	110	655.0	322.9	654.0
395	1	191	111	655.0	518.8	654.0
396	1	190	111	655.0	413.4	654.0
397	1	190	112	655.0	932.3	654.0
398	1	189	113	655.0	829.8	654.0
399	1	189	114	655.0	841.8	654.0
400	1	189	115	655.0	577.8	654.0
401	1	188	115	655.0	264.1	654.0
402	1	188	116	655.0	841.8	654.0
403	1	188	117	655.0	841.8	654.0
404	1	188	118	655.0	821.1	654.0
405	1	188	119	655.0	811.7	654.0
406	1	188	120	655.0	811.7	654.0
407	1	188	121	655.0	811.7	654.0
408	1	188	122	655.0	811.7	654.0
409	1	188	123	655.0	811.7	654.0

410	1	188	124	655.0	841.4	654.0
411	1	190	125	655.0	116.9	654.0
412	1	189	125	655.0	966.1	654.0
413	1	190	126	655.0	924.9	654.0
414	1	191	127	655.0	883.8	654.0
415	1	226	128	655.0	617.8	654.0
416	1	225	128	655.0	711.5	654.0
417	1	224	128	655.0	711.5	654.0
418	1	223	128	655.0	711.5	654.0
419	1	222	128	655.0	701.8	654.0
420	1	221	128	655.0	692.2	654.0
421	1	220	128	655.0	692.2	654.0
422	1	219	128	655.0	692.2	654.0
423	1	218	128	655.0	692.2	654.0
424	1	217	128	655.0	855.6	654.0
425	1	216	128	655.0	401.9	654.0
426	1	193	128	655.0	240.4	654.0
427	1	192	128	655.0	842.6	654.0
428	1	228	129	655.0	826.4	654.0
429	1	227	129	655.0	711.5	654.0
430	1	226	129	655.0	93.70	654.0
431	1	216	129	655.0	480.0	654.0
432	1	215	129	655.0	826.3	654.0
433	1	194	129	655.0	281.5	654.0
434	1	193	129	655.0	801.5	654.0
435	1	229	130	655.0	447.2	654.0
436	1	228	130	655.0	470.2	654.0
437	1	214	130	655.0	881.9	654.0
438	1	213	130	655.0	368.9	654.0
439	1	195	130	655.0	298.7	654.0
440	1	194	130	655.0	760.3	654.0
441	1	229	131	655.0	917.4	654.0
442	1	213	131	655.0	513.0	654.0
443	1	212	131	655.0	739.7	654.0
444	1	195	131	655.0	815.7	654.0
445	1	230	132	655.0	786.9	654.0
446	1	211	132	655.0	959.5	654.0
447	1	195	132	655.0	815.7	654.0
448	1	230	133	655.0	809.4	654.0
449	1	210	133	655.0	944.9	654.0
450	1	209	133	655.0	223.9	654.0
451	1	195	133	655.0	815.7	654.0
452	1	230	134	655.0	809.4	654.0
453	1	209	134	655.0	735.6	654.0
454	1	208	134	655.0	433.2	654.0
455	1	195	134	655.0	813.5	654.0
456	1	231	135	655.0	734.2	654.0
457	1	230	135	655.0	732.6	654.0
458	1	208	135	655.0	526.3	654.0
459	1	207	135	655.0	642.6	654.0
460	1	195	135	655.0	809.4	654.0
461	1	233	136	655.0	773.9	654.0
462	1	232	136	655.0	773.9	654.0
463	1	206	136	655.0	851.9	654.0
464	1	195	136	655.0	809.4	654.0
465	1	235	137	655.0	730.2	654.0
466	1	234	137	655.0	589.3	654.0
467	1	205	137	655.0	850.1	654.0
468	1	204	137	655.0	440.7	654.0
469	1	195	137	655.0	809.4	654.0
470	1	236	138	655.0	944.6	654.0
471	1	235	138	655.0	214.3	654.0
472	1	204	138	655.0	391.2	654.0
473	1	203	138	655.0	831.9	654.0
474	1	202	138	655.0	236.2	654.0
475	1	197	138	655.0	548.0	654.0
476	1	196	138	655.0	737.6	654.0
477	1	195	138	655.0	479.8	654.0
478	1	238	139	655.0	275.7	654.0
479	1	237	139	655.0	913.9	654.0
480	1	202	139	655.0	595.7	654.0
481	1	201	139	655.0	831.9	654.0
482	1	200	139	655.0	708.2	654.0
483	1	199	139	655.0	737.6	654.0
484	1	198	139	655.0	737.6	654.0
485	1	197	139	655.0	189.6	654.0

486	1	238	140	655.0	876.5	654.0
487	1	239	141	655.0	919.3	654.0
488	1	240	142	655.0	487.1	654.0
489	1	239	142	655.0	432.2	654.0
490	1	241	143	655.0	551.1	654.0
491	1	240	143	655.0	679.7	654.0
492	1	243	144	655.0	169.7	654.0
493	1	242	144	655.0	865.2	654.0
494	1	243	145	655.0	1013.	654.0
495	1	243	146	655.0	812.0	654.0
496	1	244	147	655.0	230.5	654.0
497	1	243	147	655.0	581.5	654.0
498	1	244	148	655.0	812.0	654.0
499	1	244	149	655.0	812.0	654.0
500	1	244	150	655.0	812.0	654.0
501	1	244	151	655.0	816.5	654.0
502	1	244	152	655.0	817.7	654.0
503	1	244	153	655.0	817.7	654.0
504	1	244	154	655.0	817.7	654.0
505	1	245	155	655.0	622.6	654.0
506	1	244	155	655.0	195.1	654.0
507	1	245	156	655.0	834.5	654.0
508	1	245	157	655.0	836.5	654.0
509	1	245	158	655.0	761.1	654.0
510	1	246	159	655.0	836.5	654.0
511	1	246	160	655.0	836.5	654.0
512	1	247	161	655.0	329.6	654.0
513	1	246	161	655.0	627.9	654.0
514	1	248	162	655.0	331.4	654.0
515	1	247	162	655.0	734.7	654.0
516	1	248	163	655.0	733.7	654.0
517	1	250	164	655.0	320.2	654.0
518	1	249	164	655.0	734.2	654.0
519	1	250	165	655.0	817.4	654.0
520	1	251	166	655.0	942.4	654.0
521	1	252	167	655.0	788.6	654.0

521 RIVER REACHES

BOUND. NO.	LAYER	ROW	COL	STAGE	CONDUCTANCE
1	5	315	4	480.0	85.57
2	5	315	5	480.0	74.01
3	5	315	6	480.0	64.03
4	5	315	7	480.0	55.71
5	5	315	8	480.0	49.03
6	5	315	9	480.0	43.85
7	5	315	10	480.0	39.97
8	5	315	11	480.0	37.17
9	5	315	12	480.0	35.21
10	5	315	13	480.0	33.89
11	5	315	14	480.0	33.03
12	5	315	15	480.0	32.48
13	5	315	16	480.0	32.15
14	5	315	17	480.0	31.95
15	5	315	18	480.0	31.83
16	5	315	19	480.0	31.77
17	5	315	20	480.0	31.74
18	5	315	21	480.0	31.72
19	5	315	22	480.0	31.71
20	5	315	23	480.0	31.70
21	5	315	24	480.0	31.70
22	5	315	25	480.0	31.70
23	5	315	26	480.0	31.70
24	5	315	27	480.0	31.70
25	5	315	28	480.0	31.70
26	5	315	29	480.0	31.70
27	5	315	30	480.0	31.70
28	5	315	31	480.0	31.70
29	5	315	32	480.0	31.70
30	5	315	33	480.0	31.70
31	5	315	34	480.0	31.70
32	5	315	35	480.0	31.70
33	5	315	36	480.0	31.70
34	5	315	37	480.0	31.70
35	5	315	38	480.0	31.70

36	5	315	39	480.0	31.70
37	5	315	40	480.0	31.70
38	5	315	41	480.0	31.70
39	5	315	42	480.0	31.70
40	5	315	43	480.0	31.70
41	5	315	44	480.0	31.70
42	5	315	45	480.0	31.70
43	5	315	46	480.0	31.70
44	5	315	47	480.0	31.69
45	5	315	48	480.0	31.69
46	5	315	49	480.0	31.67
47	5	315	50	480.0	31.65
48	5	315	51	480.0	31.62
49	5	315	52	480.0	31.56
50	5	315	53	480.0	31.47
51	5	315	54	480.0	31.34
52	5	315	55	480.0	31.15
53	5	315	56	480.0	30.87
54	5	315	57	480.0	30.50
55	5	315	58	480.0	30.01
56	5	315	59	480.0	29.39
57	5	315	60	480.0	28.62
58	5	315	61	480.0	27.72
59	5	315	62	480.0	26.70
60	5	315	63	480.0	25.57
61	5	315	64	480.0	24.38
62	5	315	65	480.0	23.17
63	5	315	66	480.0	21.98
64	5	315	67	480.0	20.86
65	5	315	68	480.0	19.83
66	5	315	69	480.0	18.93
67	5	315	70	480.0	18.17
68	5	315	71	480.0	17.55
69	5	315	72	480.0	17.05
70	5	315	73	480.0	16.68
71	5	315	74	480.0	16.41
72	5	315	75	480.0	16.21
73	5	315	76	480.0	16.08
74	4	315	4	480.0	28.61
75	4	315	5	480.0	24.74
76	4	315	6	480.0	21.41
77	4	315	7	480.0	18.63
78	4	315	8	480.0	16.39
79	4	315	9	480.0	14.66
80	4	315	10	480.0	13.37
81	4	315	11	480.0	12.43
82	4	315	12	480.0	11.77
83	4	315	13	480.0	11.33
84	4	315	14	480.0	11.04
85	4	315	15	480.0	10.86
86	4	315	16	480.0	10.75
87	4	315	17	480.0	10.68
88	4	315	18	480.0	10.64
89	4	315	19	480.0	10.62
90	4	315	20	480.0	10.61
91	4	315	21	480.0	10.60
92	4	315	22	480.0	10.60
93	4	315	23	480.0	10.60
94	4	315	24	480.0	10.60
95	4	315	25	480.0	10.60
96	4	315	26	480.0	10.60
97	4	315	27	480.0	10.60
98	4	315	28	480.0	10.60
99	4	315	29	480.0	10.60
100	4	315	30	480.0	10.60
101	4	315	31	480.0	10.60
102	4	315	32	480.0	10.60
103	4	315	33	480.0	10.60
104	4	315	34	480.0	10.60
105	4	315	35	480.0	10.60
106	4	315	36	480.0	10.60
107	4	315	37	480.0	10.60
108	4	315	38	480.0	10.60
109	4	315	39	480.0	10.60
110	4	315	40	480.0	10.60
111	4	315	41	480.0	10.60

112	4	315	42	480.0	10.60
113	4	315	43	480.0	10.60
114	4	315	44	480.0	10.60
115	4	315	45	480.0	10.60
116	4	315	46	480.0	10.60
117	4	315	47	480.0	10.60
118	4	315	48	480.0	10.59
119	4	315	49	480.0	10.59
120	4	315	50	480.0	10.58
121	4	315	51	480.0	10.57
122	4	315	52	480.0	10.55
123	4	315	53	480.0	10.52
124	4	315	54	480.0	10.48
125	4	315	55	480.0	10.41
126	4	315	56	480.0	10.32
127	4	315	57	480.0	10.20
128	4	315	58	480.0	10.03
129	4	315	59	480.0	9.825
130	4	315	60	480.0	9.570
131	4	315	61	480.0	9.269
132	4	315	62	480.0	8.926
133	4	315	63	480.0	8.550
134	4	315	64	480.0	8.153
135	4	315	65	480.0	7.747
136	4	315	66	480.0	7.350
137	4	315	67	480.0	6.974
138	4	315	68	480.0	6.631
139	4	315	69	480.0	6.329
140	4	315	70	480.0	6.074
141	4	315	71	480.0	5.866
142	4	315	72	480.0	5.702
143	4	315	73	480.0	5.578
144	4	315	74	480.0	5.486
145	4	315	75	480.0	5.421
146	4	315	76	480.0	5.377
147	3	315	4	480.0	25.52
148	3	315	5	480.0	22.08
149	3	315	6	480.0	19.10
150	3	315	7	480.0	16.62
151	3	315	8	480.0	14.63
152	3	315	9	480.0	13.08
153	3	315	10	480.0	11.92
154	3	315	11	480.0	11.09
155	3	315	12	480.0	10.50
156	3	315	13	480.0	10.11
157	3	315	14	480.0	9.851
158	3	315	15	480.0	9.688
159	3	315	16	480.0	9.589
160	3	315	17	480.0	9.530
161	3	315	18	480.0	9.496
162	3	315	19	480.0	9.477
163	3	315	20	480.0	9.466
164	3	315	21	480.0	9.461
165	3	315	22	480.0	9.458
166	3	315	23	480.0	9.457
167	3	315	24	480.0	9.456
168	3	315	25	480.0	9.456
169	3	315	26	480.0	9.456
170	3	315	27	480.0	9.456
171	3	315	28	480.0	9.456
172	3	315	29	480.0	9.456
173	3	315	30	480.0	9.456
174	3	315	31	480.0	9.456
175	3	315	32	480.0	9.456
176	3	315	33	480.0	9.456
177	3	315	34	480.0	9.456
178	3	315	35	480.0	9.456
179	3	315	36	480.0	9.456
180	3	315	37	480.0	9.456
181	3	315	38	480.0	9.456
182	3	315	39	480.0	9.456
183	3	315	40	480.0	9.456
184	3	315	41	480.0	9.456
185	3	315	42	480.0	9.456
186	3	315	43	480.0	9.456
187	3	315	44	480.0	9.456

188	3	315	45	480.0	9.455
189	3	315	46	480.0	9.455
190	3	315	47	480.0	9.453
191	3	315	48	480.0	9.451
192	3	315	49	480.0	9.448
193	3	315	50	480.0	9.442
194	3	315	51	480.0	9.431
195	3	315	52	480.0	9.414
196	3	315	53	480.0	9.388
197	3	315	54	480.0	9.349
198	3	315	55	480.0	9.291
199	3	315	56	480.0	9.209
200	3	315	57	480.0	9.098
201	3	315	58	480.0	8.952
202	3	315	59	480.0	8.766
203	3	315	60	480.0	8.538
204	3	315	61	480.0	8.270
205	3	315	62	480.0	7.964
206	3	315	63	480.0	7.628
207	3	315	64	480.0	7.273
208	3	315	65	480.0	6.912
209	3	315	66	480.0	6.557
210	3	315	67	480.0	6.222
211	3	315	68	480.0	5.916
212	3	315	69	480.0	5.647
213	3	315	70	480.0	5.419
214	3	315	71	480.0	5.234
215	3	315	72	480.0	5.087
216	3	315	73	480.0	4.976
217	3	315	74	480.0	4.895
218	3	315	75	480.0	4.837
219	3	315	76	480.0	4.797
220	2	315	4	480.0	31.43
221	2	315	5	480.0	27.19
222	2	315	6	480.0	23.52
223	2	315	7	480.0	20.47
224	2	315	8	480.0	18.01
225	2	315	9	480.0	16.11
226	2	315	10	480.0	14.69
227	2	315	11	480.0	13.66
228	2	315	12	480.0	12.94
229	2	315	13	480.0	12.45
230	2	315	14	480.0	12.13
231	2	315	15	480.0	11.93
232	2	315	16	480.0	11.81
233	2	315	17	480.0	11.74
234	2	315	18	480.0	11.69
235	2	315	19	480.0	11.67
236	2	315	20	480.0	11.66
237	2	315	21	480.0	11.65
238	2	315	22	480.0	11.65
239	2	315	23	480.0	11.65
240	2	315	24	480.0	11.65
241	2	315	25	480.0	11.65
242	2	315	26	480.0	11.65
243	2	315	27	480.0	11.65
244	2	315	28	480.0	11.65
245	2	315	29	480.0	11.65
246	2	315	30	480.0	11.65
247	2	315	31	480.0	11.65
248	2	315	32	480.0	11.65
249	2	315	33	480.0	11.65
250	2	315	34	480.0	11.65
251	2	315	35	480.0	11.65
252	2	315	36	480.0	11.65
253	2	315	37	480.0	11.65
254	2	315	38	480.0	11.65
255	2	315	39	480.0	11.65
256	2	315	40	480.0	11.65
257	2	315	41	480.0	11.65
258	2	315	42	480.0	11.65
259	2	315	43	480.0	11.65
260	2	315	44	480.0	11.64
261	2	315	45	480.0	11.64
262	2	315	46	480.0	11.64
263	2	315	47	480.0	11.64

264	2	315	48	480.0	11.64
265	2	315	49	480.0	11.64
266	2	315	50	480.0	11.63
267	2	315	51	480.0	11.61
268	2	315	52	480.0	11.59
269	2	315	53	480.0	11.56
270	2	315	54	480.0	11.51
271	2	315	55	480.0	11.44
272	2	315	56	480.0	11.34
273	2	315	57	480.0	11.20
274	2	315	58	480.0	11.02
275	2	315	59	480.0	10.80
276	2	315	60	480.0	10.52
277	2	315	61	480.0	10.18
278	2	315	62	480.0	9.808
279	2	315	63	480.0	9.395
280	2	315	64	480.0	8.958
281	2	315	65	480.0	8.512
282	2	315	66	480.0	8.075
283	2	315	67	480.0	7.662
284	2	315	68	480.0	7.285
285	2	315	69	480.0	6.955
286	2	315	70	480.0	6.674
287	2	315	71	480.0	6.446
288	2	315	72	480.0	6.265
289	2	315	73	480.0	6.128
290	2	315	74	480.0	6.028
291	2	315	75	480.0	5.957
292	2	315	76	480.0	5.908

292 GHB CELLS

RECHARGE
READING ON UNIT 18 WITH FORMAT: (15G11.4)

SOLVING FOR HEAD

CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 1 LAYER= 1 STEP= 1 PERIOD= 1 (ROW,COL)

DRY(40,149)	DRY(42,139)	DRY(42,140)	DRY(42,141)	DRY(42,142)
DRY(42,143)	DRY(42,144)	DRY(42,145)	DRY(42,146)	DRY(42,147)
DRY(42,148)	DRY(42,149)	DRY(42,150)	DRY(42,151)	DRY(42,152)
DRY(42,153)	DRY(42,154)	DRY(42,155)	DRY(42,156)	DRY(42,157)
DRY(42,158)	DRY(42,159)	DRY(42,160)	DRY(42,161)	DRY(42,162)
DRY(43,138)	DRY(43,139)	DRY(43,140)	DRY(43,141)	DRY(43,142)
DRY(43,143)	DRY(43,144)	DRY(43,145)	DRY(43,146)	DRY(43,147)
DRY(43,148)	DRY(43,149)	DRY(43,150)	DRY(43,151)	DRY(43,152)
DRY(43,153)	DRY(43,154)	DRY(43,155)	DRY(43,156)	DRY(43,157)
DRY(43,158)	DRY(43,159)	DRY(43,160)	DRY(43,161)	DRY(43,162)
DRY(44,137)	DRY(44,138)	DRY(44,139)	DRY(44,140)	DRY(44,141)
DRY(44,142)	DRY(44,143)	DRY(44,144)	DRY(44,145)	DRY(44,146)
DRY(44,147)	DRY(44,148)	DRY(44,149)	DRY(44,150)	DRY(44,151)
DRY(44,152)	DRY(44,153)	DRY(44,154)	DRY(44,155)	DRY(44,156)
DRY(44,157)	DRY(44,158)	DRY(44,159)	DRY(44,160)	DRY(44,161)
DRY(44,162)	DRY(44,163)	DRY(45,136)	DRY(45,137)	DRY(45,138)
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DRY(46,135)	DRY(46,136)	DRY(46,137)	DRY(46,138)	DRY(46,139)
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DRY(46,160)	DRY(46,161)	DRY(46,162)	DRY(46,163)	DRY(47,134)
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DRY(106,111)	DRY(106,112)	DRY(106,113)	DRY(106,114)	DRY(106,115)
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DRY(106,121)	DRY(106,122)	DRY(106,123)	DRY(106,124)	DRY(106,125)
DRY(106,126)	DRY(106,127)	DRY(106,128)	DRY(106,129)	DRY(106,130)
DRY(106,131)	DRY(106,132)	DRY(106,133)	DRY(106,134)	DRY(106,135)

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DRY(114,148) DRY(114,149) DRY(114,150) DRY(114,151) DRY(114,152)

DRY(115,110)	DRY(115,111)	DRY(115,112)	DRY(115,113)	DRY(115,114)
DRY(115,115)	DRY(115,116)	DRY(115,117)	DRY(115,118)	DRY(115,119)
DRY(115,120)	DRY(115,121)	DRY(115,122)	DRY(115,123)	DRY(115,124)
DRY(115,125)	DRY(115,126)	DRY(115,127)	DRY(115,128)	DRY(115,129)
DRY(115,130)	DRY(115,131)	DRY(115,132)	DRY(115,133)	DRY(115,134)
DRY(115,135)	DRY(115,136)	DRY(115,137)	DRY(115,138)	DRY(115,139)
DRY(115,140)	DRY(115,141)	DRY(115,142)	DRY(115,143)	DRY(115,144)
DRY(115,145)	DRY(115,146)	DRY(115,147)	DRY(115,148)	DRY(115,149)
DRY(115,150)	DRY(115,151)	DRY(115,152)	DRY(116,110)	DRY(116,111)
DRY(116,112)	DRY(116,113)	DRY(116,114)	DRY(116,115)	DRY(116,116)
DRY(116,117)	DRY(116,118)	DRY(116,119)	DRY(116,120)	DRY(116,121)
DRY(116,122)	DRY(116,123)	DRY(116,124)	DRY(116,125)	DRY(116,126)
DRY(116,127)	DRY(116,128)	DRY(116,129)	DRY(116,130)	DRY(116,131)
DRY(116,132)	DRY(116,133)	DRY(116,134)	DRY(116,135)	DRY(116,136)
DRY(116,137)	DRY(116,138)	DRY(116,139)	DRY(116,140)	DRY(116,141)
DRY(116,142)	DRY(116,143)	DRY(116,144)	DRY(116,145)	DRY(116,146)
DRY(116,147)	DRY(116,148)	DRY(116,149)	DRY(116,150)	DRY(116,151)
DRY(117,110)	DRY(117,111)	DRY(117,112)	DRY(117,113)	DRY(117,114)
DRY(117,115)	DRY(117,116)	DRY(117,117)	DRY(117,118)	DRY(117,119)
DRY(117,120)	DRY(117,121)	DRY(117,122)	DRY(117,123)	DRY(117,124)
DRY(117,125)	DRY(117,126)	DRY(117,127)	DRY(117,128)	DRY(117,129)
DRY(117,130)	DRY(117,131)	DRY(117,132)	DRY(117,133)	DRY(117,134)
DRY(117,135)	DRY(117,136)	DRY(117,137)	DRY(117,138)	DRY(117,139)
DRY(117,140)	DRY(117,141)	DRY(117,142)	DRY(117,143)	DRY(117,144)
DRY(117,145)	DRY(117,146)	DRY(117,147)	DRY(117,148)	DRY(117,149)
DRY(117,150)	DRY(118,110)	DRY(118,111)	DRY(118,112)	DRY(118,113)
DRY(118,114)	DRY(118,115)	DRY(118,116)	DRY(118,117)	DRY(118,118)
DRY(118,119)	DRY(118,120)	DRY(118,121)	DRY(118,122)	DRY(118,123)
DRY(118,124)	DRY(118,125)	DRY(118,126)	DRY(118,127)	DRY(118,128)
DRY(118,129)	DRY(118,130)	DRY(118,131)	DRY(118,132)	DRY(118,133)
DRY(118,134)	DRY(118,135)	DRY(118,136)	DRY(118,137)	DRY(118,138)
DRY(118,139)	DRY(118,140)	DRY(118,141)	DRY(118,142)	DRY(118,143)
DRY(118,144)	DRY(118,145)	DRY(118,146)	DRY(118,147)	DRY(118,148)
DRY(118,149)	DRY(119,110)	DRY(119,111)	DRY(119,112)	DRY(119,113)
DRY(119,114)	DRY(119,115)	DRY(119,116)	DRY(119,117)	DRY(119,118)
DRY(119,119)	DRY(119,120)	DRY(119,121)	DRY(119,122)	DRY(119,123)
DRY(119,124)	DRY(119,125)	DRY(119,126)	DRY(119,127)	DRY(119,128)
DRY(119,129)	DRY(119,130)	DRY(119,131)	DRY(119,132)	DRY(119,133)
DRY(119,134)	DRY(119,135)	DRY(119,136)	DRY(119,137)	DRY(119,138)
DRY(119,139)	DRY(119,140)	DRY(119,141)	DRY(119,142)	DRY(119,143)
DRY(119,144)	DRY(119,145)	DRY(119,146)	DRY(119,147)	DRY(119,148)
DRY(119,149)	DRY(120,110)	DRY(120,111)	DRY(120,112)	DRY(120,113)
DRY(120,114)	DRY(120,115)	DRY(120,116)	DRY(120,117)	DRY(120,118)
DRY(120,119)	DRY(120,120)	DRY(120,121)	DRY(120,122)	DRY(120,123)
DRY(120,124)	DRY(120,125)	DRY(120,126)	DRY(120,127)	DRY(120,128)
DRY(120,129)	DRY(120,130)	DRY(120,131)	DRY(120,132)	DRY(120,133)
DRY(120,134)	DRY(120,135)	DRY(120,136)	DRY(120,137)	DRY(120,138)
DRY(120,139)	DRY(120,140)	DRY(120,141)	DRY(120,142)	DRY(120,143)
DRY(120,144)	DRY(120,145)	DRY(120,146)	DRY(120,147)	DRY(120,148)
DRY(121,110)	DRY(121,111)	DRY(121,112)	DRY(121,113)	DRY(121,114)
DRY(121,115)	DRY(121,116)	DRY(121,117)	DRY(121,118)	DRY(121,119)
DRY(121,120)	DRY(121,121)	DRY(121,122)	DRY(121,123)	DRY(121,124)
DRY(121,125)	DRY(121,126)	DRY(121,127)	DRY(121,128)	DRY(121,129)
DRY(121,130)	DRY(121,131)	DRY(121,132)	DRY(121,133)	DRY(121,134)
DRY(121,135)	DRY(121,136)	DRY(121,137)	DRY(121,138)	DRY(121,139)
DRY(121,140)	DRY(121,141)	DRY(121,142)	DRY(121,143)	DRY(121,144)
DRY(121,145)	DRY(121,146)	DRY(121,147)	DRY(122,111)	DRY(122,112)
DRY(122,113)	DRY(122,114)	DRY(122,115)	DRY(122,116)	DRY(122,117)
DRY(122,118)	DRY(122,119)	DRY(122,120)	DRY(122,121)	DRY(122,122)
DRY(122,123)	DRY(122,124)	DRY(122,125)	DRY(122,126)	DRY(122,127)
DRY(122,128)	DRY(122,129)	DRY(122,130)	DRY(122,131)	DRY(122,132)
DRY(122,133)	DRY(122,134)	DRY(122,135)	DRY(122,136)	DRY(122,137)
DRY(122,138)	DRY(122,139)	DRY(122,140)	DRY(122,141)	DRY(122,142)
DRY(122,143)	DRY(122,144)	DRY(122,145)	DRY(122,146)	DRY(123,111)
DRY(123,112)	DRY(123,113)	DRY(123,114)	DRY(123,115)	DRY(123,116)
DRY(123,117)	DRY(123,118)	DRY(123,119)	DRY(123,120)	DRY(123,121)
DRY(123,122)	DRY(123,123)	DRY(123,124)	DRY(123,125)	DRY(123,126)
DRY(123,127)	DRY(123,128)	DRY(123,129)	DRY(123,130)	DRY(123,131)
DRY(123,132)	DRY(123,133)	DRY(123,134)	DRY(123,135)	DRY(123,136)
DRY(123,137)	DRY(123,138)	DRY(123,139)	DRY(123,140)	DRY(123,141)
DRY(123,142)	DRY(123,143)	DRY(123,144)	DRY(123,145)	DRY(124,112)
DRY(124,113)	DRY(124,114)	DRY(124,115)	DRY(124,116)	DRY(124,117)
DRY(124,118)	DRY(124,119)	DRY(124,120)	DRY(124,121)	DRY(124,122)
DRY(124,123)	DRY(124,124)	DRY(124,125)	DRY(124,126)	DRY(124,127)
DRY(124,128)	DRY(124,129)	DRY(124,130)	DRY(124,131)	DRY(124,132)
DRY(124,133)	DRY(124,134)	DRY(124,135)	DRY(124,136)	DRY(124,137)

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   DRY(124,138)   DRY(124,139)   DRY(124,140)   DRY(124,141)   DRY(124,142)
   DRY(124,143)   DRY(124,144)   DRY(124,145)   DRY(175,184)   DRY(176,182)
   DRY(178,185)   DRY(184,185)   DRY(196,201)   DRY(197,195)   DRY(197,196)
   DRY(197,197)   DRY(197,198)   DRY(197,199)   DRY(197,200)   DRY(197,201)
   DRY(197,202)   DRY(198,194)   DRY(198,195)   DRY(198,196)   DRY(198,197)
   DRY(198,198)   DRY(198,199)   DRY(198,200)   DRY(198,201)   DRY(198,202)
   DRY(199,195)   DRY(199,196)   DRY(199,197)   DRY(199,198)   DRY(199,199)
   DRY(199,200)   DRY(199,201)   DRY(199,202)   DRY(199,203)   DRY(200,195)
   DRY(200,196)   DRY(200,197)   DRY(200,198)   DRY(200,199)   DRY(200,200)
   DRY(200,201)   DRY(200,202)   DRY(200,203)   DRY(201,196)   DRY(201,197)
   DRY(201,198)   DRY(201,199)   DRY(201,200)   DRY(201,201)   DRY(201,202)
   DRY(202,197)   DRY(202,198)   DRY(202,199)   DRY(202,200)   DRY(202,201)
   DRY(202,202)   DRY(203,199)   DRY(203,200)   DRY(203,201)   DRY(203,202)
   DRY(217,167)   DRY(217,168)   DRY(218,167)   DRY(218,168)

CELL CONVERSIONS FOR ITER.=  1  LAYER=  2  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 66,140)   DRY( 66,141)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  2  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,149)   DRY( 99,173)   WET(101,170)   WET(102,170)   WET(108,163)
   WET(175,184)   WET(176,182)   WET(178,185)   WET(184,185)   WET(197,195)
   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  3  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,172)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
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MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  4  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,173)   WET(100,172)   DRY(102,175)   DRY(109,162)   DRY(109,164)
   DRY(112,163)   DRY(174,185)   DRY(175,185)   DRY(177,183)   DRY(178,186)
   DRY(180,186)   DRY(197,194)   WET(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883502E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  6  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(102,175)   WET(109,162)   WET(109,164)   DRY(111,162)   WET(112,163)
   WET(174,185)   WET(175,185)   DRY(175,188)   WET(177,183)   WET(178,186)
   WET(180,186)   WET(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  7  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(105,161)   DRY(109,160)   DRY(176,183)   DRY(177,185)
```

```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  8  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(105,161)   DRY(107,185)   WET(109,160)   WET(111,162)   WET(175,188)
   WET(176,183)   WET(177,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=  9  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(112,162)   DRY(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 10  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,172)   WET(107,185)   WET(112,162)   DRY(114,163)   DRY(174,189)
   DRY(177,186)   DRY(179,186)   DRY(181,187)   DRY(197,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883502E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 11  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(113,161)   DRY(115,161)   DRY(177,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883502E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 12  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,172)   WET(113,161)   WET(114,163)   WET(115,161)   WET(174,189)
   DRY(176,185)   WET(177,184)   WET(177,186)   WET(179,186)   WET(181,187)
   WET(197,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 13  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(105,160)   DRY(106,160)   DRY(106,161)   DRY(108,160)   DRY(109,164)
   DRY(113,162)   DRY(175,186)   DRY(177,176)   DRY(177,178)   DRY(178,184)
   DRY(180,184)   DRY(180,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883502E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
```

```
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 14  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(105,160)   WET(106,160)   WET(106,161)   WET(108,160)   WET(109,164)
   WET(113,162)   WET(175,186)   WET(176,185)   WET(177,176)   WET(177,178)
   WET(178,184)   WET(180,184)   WET(180,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 15  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)   DRY(178,178)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 16  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,174)   DRY(107,186)   DRY(110,162)   WET(116,162)   DRY(174,188)
   DRY(175,185)   DRY(176,184)   WET(178,178)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 17  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
```

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   DRY(100,171)   DRY(179,185)   DRY(195,195)   DRY(196,197)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 18  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,171)   WET(100,174)   WET(107,186)   WET(110,162)   WET(174,188)
   WET(175,185)   DRY(175,190)   WET(176,184)   WET(179,185)   WET(195,195)
   WET(196,197)   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 19  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,169)   DRY( 98,170)   DRY( 99,172)   DRY(104,160)   DRY(106,162)
   DRY(175,181)   DRY(175,184)   DRY(177,179)   DRY(178,177)   DRY(182,185)
   DRY(183,184)   DRY(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 20  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,169)   WET( 98,170)   WET( 99,172)   WET(104,160)   WET(106,162)
   WET(175,181)   WET(175,184)   WET(175,190)   WET(177,179)   WET(178,177)
   WET(182,185)   WET(183,184)   WET(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002
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    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 21  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(102,174)   DRY(107,184)   DRY(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 22  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(102,174)   WET(107,184)   DRY(109,164)   DRY(173,189)   DRY(174,184)
   DRY(175,185)   DRY(176,186)   DRY(176,189)   WET(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 23  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,150)   DRY(111,163)   DRY(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
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         ----------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 24  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,150)   DRY(102,170)   WET(109,164)   WET(111,163)   WET(173,189)
   WET(174,184)   WET(175,185)   WET(176,186)   WET(176,189)   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ----------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 25  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,149)   DRY(107,162)   DRY(110,161)   DRY(174,187)   DRY(176,179)
   DRY(176,180)   DRY(176,184)   DRY(177,181)   DRY(177,185)   DRY(177,187)
   DRY(178,179)   DRY(178,180)   DRY(179,178)   DRY(179,179)   DRY(180,186)
   DRY(181,185)   DRY(181,186)   DRY(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ----------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 26  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,149)   DRY(101,175)   WET(102,170)   WET(107,162)   WET(110,161)
   WET(174,187)   WET(176,179)   WET(176,180)   WET(176,184)   WET(177,181)
   WET(177,185)   WET(177,187)   WET(178,179)   WET(178,180)   WET(179,178)
   WET(179,179)   WET(180,186)   WET(181,185)   WET(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ----------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
```

```
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 27  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(177,184)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 28  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,175)   DRY(107,185)   DRY(108,161)   DRY(175,187)   DRY(176,181)
   WET(177,184)   DRY(179,186)   DRY(179,187)   WET(181,186)   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 29  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(114,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 30  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,185)   WET(108,161)   WET(114,162)   DRY(116,162)   WET(175,187)
   WET(176,181)   WET(179,186)   WET(179,187)
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```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 31  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(109,164)   DRY(176,182)   DRY(176,184)   DRY(176,185)   DRY(178,181)
   DRY(184,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 32  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,174)   WET(109,164)   WET(116,162)   WET(176,182)   WET(176,184)
   WET(176,185)   WET(178,181)   WET(184,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 33  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(177,182)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 34  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,174)   DRY(109,161)   DRY(112,162)   DRY(175,186)   DRY(176,188)
   WET(177,182)   DRY(178,187)   DRY(180,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 36  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(109,161)   WET(112,162)   WET(175,186)   DRY(176,183)   WET(176,188)
   WET(178,187)   WET(180,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
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```
CELL CONVERSIONS FOR ITER.= 37  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(108,162)   DRY(110,160)   DRY(111,162)   DRY(175,185)   DRY(176,178)
   DRY(178,182)   DRY(187,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 38  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(108,162)   WET(110,160)   WET(111,162)   WET(175,185)   WET(176,178)
   WET(176,183)   WET(178,182)   WET(187,185)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 39  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,174)   DRY(178,183)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 40  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,174)   DRY(173,190)   DRY(175,184)   DRY(176,187)   WET(178,183)
   DRY(178,186)   DRY(179,184)   DRY(180,186)   DRY(182,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:
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```
 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 41  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(102,170)   DRY(102,173)   DRY(113,162)   DRY(177,186)   DRY(196,196)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 42  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,174)   DRY(101,176)   WET(102,170)   WET(102,173)   WET(113,162)
   DRY(113,163)   DRY(116,162)   DRY(117,162)   WET(173,190)   DRY(174,186)
   WET(175,184)   WET(176,187)   WET(177,186)   WET(178,186)   WET(179,184)
   WET(180,186)   WET(182,185)   WET(196,196)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 43  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,151)   DRY(110,163)   DRY(175,185)   DRY(177,177)   DRY(177,178)
   DRY(177,180)   DRY(178,184)   DRY(179,182)   DRY(179,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 44  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,151)   WET(101,174)   WET(101,176)   WET(110,163)   WET(113,163)
   WET(116,162)   WET(117,162)   WET(174,186)   WET(175,185)   WET(177,177)
   WET(177,178)   WET(177,180)   WET(178,184)   WET(179,182)   WET(179,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 45  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,185)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 46  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,173)   DRY(100,173)   WET(107,185)   DRY(175,189)   DRY(177,183)
   DRY(178,185)   DRY(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10
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    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 47  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(111,161)   DRY(112,161)   DRY(196,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 48  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,173)   WET(100,173)   DRY(101,175)   DRY(102,171)   WET(111,161)
   WET(112,161)   WET(175,189)   DRY(176,186)   WET(177,183)   WET(178,185)
   WET(183,185)   WET(196,195)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000000

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 49  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,170)   DRY( 99,172)   DRY(102,170)   DRY(106,161)   DRY(111,160)
   DRY(174,187)   DRY(175,182)   DRY(175,183)   DRY(176,185)   DRY(177,184)
   DRY(177,185)   DRY(179,180)   DRY(179,183)   DRY(180,179)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 50  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,170)   WET( 99,172)   WET(101,175)   WET(102,170)   WET(102,171)
   WET(106,161)   WET(111,160)   WET(174,187)   WET(175,182)   WET(175,183)
   WET(176,185)   WET(176,186)   WET(177,184)   WET(179,180)   WET(179,183)
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   WET(180,179)   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 51  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,149)   DRY(110,162)   DRY(115,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 52  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,149)   DRY(107,186)   WET(110,162)   DRY(111,164)   DRY(112,163)
   WET(115,162)   DRY(174,188)   DRY(176,184)   WET(177,185)   WET(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 54  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,186)   WET(111,164)   WET(112,163)   DRY(114,161)   DRY(115,163)
   DRY(116,162)   WET(174,188)   DRY(174,189)   WET(176,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 55  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(112,160)   DRY(113,160)   DRY(175,186)   DRY(175,188)   DRY(176,177)
   DRY(176,181)   DRY(177,179)   DRY(177,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 56  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(112,160)   WET(113,160)   WET(114,161)   WET(115,163)   WET(116,162)
   WET(174,189)   WET(175,186)   WET(175,188)   WET(176,177)   WET(176,181)
   WET(177,179)   WET(177,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10
```

```
    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 57  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(113,161)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 58  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 97,170)   DRY( 98,172)   DRY(112,162)   WET(113,161)   DRY(175,185)
   DRY(175,187)   DRY(176,182)   DRY(183,186)   DRY(184,186)   DRY(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 59  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,174)   DRY(196,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 60  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 97,170)   WET( 98,172)   WET(101,174)   WET(112,162)   DRY(113,162)
   DRY(117,161)   WET(175,185)   WET(175,187)   WET(176,182)   WET(183,186)
   WET(184,186)   WET(196,194)   WET(197,194)

AVERAGE SEED = 0.00002146
```

```
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 61  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(174,185)   DRY(175,184)   DRY(176,180)   DRY(176,184)   DRY(179,186)
   DRY(180,180)   DRY(182,185)   DRY(182,186)   DRY(184,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 62  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(113,162)   DRY(114,162)   DRY(116,162)   WET(117,161)   WET(174,185)
   WET(175,184)   WET(176,180)   WET(176,184)   WET(179,186)   WET(180,180)
   WET(182,185)   WET(182,186)   WET(184,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 63  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,185)   DRY(111,163)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 64  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,171)   DRY(100,174)   DRY(102,174)   WET(107,185)   DRY(111,162)
   WET(111,163)   WET(114,162)   DRY(114,163)   WET(116,162)   DRY(175,185)
   DRY(178,185)   DRY(181,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 65  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(178,184)   DRY(196,198)   DRY(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 66  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,171)   WET(100,174)   WET(102,174)   WET(111,162)   WET(114,163)
   DRY(115,161)   DRY(118,162)   WET(175,185)   DRY(177,188)   WET(178,184)
   WET(178,185)   WET(181,186)   WET(196,198)   WET(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
```

```
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 67  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(109,162)   DRY(109,163)   DRY(175,180)   DRY(176,183)   DRY(176,184)
   DRY(176,185)   DRY(177,181)   DRY(177,186)   DRY(177,187)   DRY(178,178)
   DRY(179,185)   DRY(180,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 68  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(109,162)   WET(109,163)   WET(115,161)   WET(118,162)   WET(175,180)
   WET(176,183)   WET(176,184)   WET(176,185)   WET(177,181)   WET(177,186)
   WET(177,187)   WET(177,188)   WET(178,178)   DRY(178,186)   WET(179,185)
   WET(180,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 69  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,161)   DRY(107,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
```

```
CELL CONVERSIONS FOR ITER.= 70  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,149)   WET(107,161)   WET(107,184)   DRY(110,164)   DRY(116,162)
   WET(178,186)   DRY(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 71  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,161)   DRY(196,199)   DRY(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 72  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,149)   WET(110,161)   WET(110,164)   WET(116,162)   DRY(176,186)
   WET(196,199)   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 73  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,171)   DRY(101,170)   DRY(177,182)   DRY(179,181)   DRY(179,184)
   DRY(180,185)   DRY(181,183)   DRY(181,184)   DRY(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:
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```
 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 74  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,171)   WET(101,170)   WET(176,186)   WET(177,182)   WET(179,181)
   WET(179,184)   WET(180,185)   WET(181,183)   WET(181,184)   WET(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 75  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,172)   DRY(177,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 76  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,172)   DRY(175,186)   DRY(176,187)   WET(177,184)   DRY(178,187)
   DRY(180,186)   DRY(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000000

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
```

```
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 77  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,171)   DRY(118,161)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 78  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,171)   WET(118,161)   DRY(175,185)   WET(175,186)   WET(176,187)
   WET(178,187)   WET(180,186)   WET(181,185)   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 79  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(104,160)   DRY(177,183)   DRY(177,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 80  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(104,160)   DRY(107,185)   WET(175,185)   WET(177,183)   WET(177,185)
```

```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 81  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)   DRY(175,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 82  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,185)   DRY(111,163)   DRY(112,162)   WET(116,162)   DRY(174,187)
   DRY(174,190)   WET(175,184)   DRY(178,183)   DRY(179,187)   DRY(180,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 83  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,172)   DRY(102,174)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 84  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,172)   WET(102,174)   WET(111,163)   WET(112,162)   DRY(114,160)
   DRY(116,161)   WET(174,187)   WET(174,190)   DRY(176,188)   WET(178,183)
   WET(179,187)   WET(180,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 85  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,171)   DRY(175,185)   DRY(176,181)   DRY(177,178)   DRY(178,180)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 86  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,173)   WET(101,171)   WET(114,160)   WET(116,161)   WET(175,185)
   WET(176,181)   WET(176,188)   WET(177,178)   WET(178,180)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
```

```
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 87  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,150)   DRY(102,171)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 88  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,150)   WET( 99,173)   DRY(100,174)   WET(102,171)   DRY(107,186)
   DRY(116,162)   DRY(176,182)   DRY(176,185)   DRY(177,184)   DRY(178,185)
   DRY(179,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 89  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,162)   DRY(113,162)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 90  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,174)   WET(107,186)   WET(110,162)   WET(113,162)   WET(116,162)
   WET(176,182)   WET(176,185)   WET(177,184)   WET(178,185)   WET(179,186)
   WET(197,195)
```

```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 91  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,149)   DRY(177,176)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 92  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,149)   WET(177,176)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
```

```
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 94  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,187)   DRY(176,184)   DRY(178,188)   DRY(196,193)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 95  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,171)   DRY(110,163)   DRY(195,196)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 96  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,171)   WET(110,163)   DRY(116,162)   WET(175,187)   WET(176,184)
   WET(178,188)   WET(195,196)   WET(196,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 97  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(111,162)   DRY(114,161)   DRY(177,177)   DRY(177,186)
```

```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 98  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,185)   WET(111,162)   WET(114,161)   WET(116,162)   WET(177,177)
   WET(177,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.= 99  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,173)   DRY(109,161)   DRY(178,179)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=100  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,173)   DRY(102,176)   WET(107,185)   WET(109,161)   DRY(114,162)
   DRY(175,185)   DRY(175,186)   DRY(175,188)   DRY(176,183)   WET(178,179)
   DRY(178,184)   DRY(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
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```
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=101  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(108,161)   DRY(112,161)   DRY(112,163)   DRY(196,197)   DRY(199,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=102  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(102,176)   WET(108,161)   DRY(111,161)   WET(112,161)   WET(112,163)
   WET(114,162)   DRY(116,162)   DRY(117,162)   WET(175,185)   WET(175,186)
   WET(175,188)   WET(176,183)   WET(178,184)   WET(181,185)   WET(196,197)
   WET(199,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=103  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(106,160)   DRY(175,184)   DRY(176,186)   DRY(177,185)   DRY(178,182)
   DRY(179,185)   DRY(182,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
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```
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=104  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(106,160)  WET(111,161)   WET(116,162)   WET(117,162)   WET(175,184)
   WET(176,186)   WET(177,185)   WET(178,182)   WET(179,185)   WET(182,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=106  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,172)   DRY(109,163)   DRY(112,162)   DRY(174,188)   DRY(176,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=107  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,172)   DRY(175,185)   DRY(178,186)   DRY(196,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005
```

```
    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=108  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,172)   WET( 99,172)   WET(109,163)   WET(112,162)   DRY(115,162)
   DRY(116,162)   WET(174,188)   WET(175,185)   WET(176,184)   DRY(177,187)
   WET(178,186)   WET(196,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=109  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(177,179)   DRY(177,180)   DRY(177,184)   DRY(180,183)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=110  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(115,162)   WET(116,162)   WET(177,179)   WET(177,180)   WET(177,184)
   WET(177,187)   WET(180,183)   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=111  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,149)   DRY(176,184)   DRY(176,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=112  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,149)   DRY(174,187)   WET(176,184)   WET(176,185)   DRY(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=113  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,170)   DRY(113,162)   DRY(115,160)   DRY(115,161)   DRY(178,181)
   DRY(178,185)   DRY(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
```

```
CELL CONVERSIONS FOR ITER.=114  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,170)   WET(113,162)   WET(115,160)   WET(115,161)   DRY(116,162)
   WET(174,187)   WET(178,181)   WET(178,185)   WET(181,185)   WET(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=115  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(105,160)   DRY(105,161)   DRY(107,160)   DRY(107,163)   DRY(175,183)
   DRY(184,184)   DRY(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=116  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(105,160)   WET(105,161)   WET(107,160)   WET(107,163)   WET(116,162)
   WET(175,183)   WET(184,184)   WET(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=117  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004
```

```
    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=118  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,185)   DRY(175,186)   DRY(175,189)   DRY(177,183)   DRY(179,186)
   DRY(181,186)   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=119  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(102,175)   DRY(111,162)   DRY(116,162)   DRY(196,196)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000000

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=120  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(102,175)   WET(111,162)   DRY(113,161)   WET(116,162)   WET(175,185)
   WET(175,186)   WET(175,189)   DRY(176,189)   WET(177,183)   WET(179,186)
   WET(181,186)   WET(196,196)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=121  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,184)   DRY(175,187)   DRY(176,179)   DRY(176,180)   DRY(176,181)
   DRY(176,182)   DRY(176,187)   DRY(177,181)   DRY(177,182)   DRY(177,185)
   DRY(177,186)   DRY(179,184)   DRY(180,184)   DRY(180,186)   DRY(181,185)
   DRY(185,183)   DRY(186,183)   DRY(186,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=122  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,185)   WET(113,161)   WET(175,184)   WET(175,187)   WET(176,179)
   WET(176,180)   WET(176,181)   WET(176,182)   WET(176,187)   WET(176,189)
   WET(177,182)   WET(177,185)   WET(177,186)   WET(179,184)   WET(180,184)
   WET(180,186)   WET(181,185)   WET(185,183)   WET(186,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=123  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(179,183)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
```

```
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=124  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    DRY(100,174)   DRY(101,171)   WET(107,185)   DRY(109,162)   DRY(111,163)
    DRY(116,162)   DRY(174,186)   DRY(175,185)   DRY(176,186)   WET(177,181)
    DRY(177,184)   DRY(178,184)   WET(179,183)   WET(186,183)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=125  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    DRY(102,172)   DRY(196,198)   DRY(197,195)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=126  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    WET(100,174)   WET(101,171)   WET(102,172)   WET(109,162)   WET(111,163)
    DRY(114,163)   WET(116,162)   WET(174,186)   WET(175,185)   WET(176,186)
    WET(177,184)   WET(178,184)   WET(196,198)   WET(197,195)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=127  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
```

```
   DRY(110,162)    DRY(176,183)    DRY(176,185)    DRY(179,182)    DRY(180,185)
   DRY(182,185)    DRY(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=128  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(110,162)    WET(114,163)    WET(176,183)    WET(176,185)    WET(179,182)
   WET(180,185)    WET(182,185)    WET(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=129  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=130  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 97,170)    DRY( 99,173)    DRY(102,175)    DRY(107,186)    WET(116,162)
   DRY(174,189)    DRY(176,185)    DRY(178,186)    DRY(179,185)    DRY(179,187)
   DRY(180,186)    DRY(181,187)

AVERAGE SEED = 0.00002174
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:
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```
 0.000000E+00 0.883201E+00 0.986358E+00 0.998407E+00 0.999814E+00
 0.999978E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=131  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,172)   DRY(113,162)

AVERAGE SEED = 0.00002174
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883201E+00 0.986358E+00 0.998407E+00 0.999814E+00
 0.999978E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=132  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 97,170)   WET( 99,173)   WET(100,172)   WET(102,175)   WET(107,186)
   WET(113,162)   DRY(116,162)   WET(174,189)   WET(176,185)   WET(178,186)
   WET(179,185)   WET(179,187)   WET(180,186)   WET(181,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=133  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(108,163)   DRY(176,184)   DRY(178,183)   DRY(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
```

```
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=134  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(108,163)   WET(116,162)   WET(176,184)   WET(178,183)   WET(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=135  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=136  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,171)   WET(107,184)   DRY(116,162)   DRY(173,190)   DRY(174,187)
   DRY(175,184)   DRY(175,185)   DRY(175,186)   DRY(178,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=137  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY.(197,195)
```

```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=138  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 40,151)   WET(100,171)   WET(116,162)   WET(173,190)   WET(174,187)
   DRY(174,188)   WET(175,184)   WET(175,185)   WET(175,186)   WET(178,187)
   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=139  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,161)   DRY(112,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=140  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 40,151)   WET(110,161)   WET(112,162)   WET(174,188)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=141  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,172)   DRY(102,175)   DRY(107,185)   DRY(116,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=142  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,172)   DRY(101,170)   WET(102,175)   WET(107,185)   DRY(108,162)
   DRY(111,164)   DRY(114,162)   WET(116,162)   DRY(174,185)   DRY(176,184)
   DRY(177,184)   DRY(177,185)   DRY(181,184)   DRY(196,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
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```
CELL CONVERSIONS FOR ITER.=144  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,170)   WET(108,162)   DRY(109,161)   WET(111,164)   WET(114,162)
   DRY(116,162)   WET(174,185)   DRY(174,191)   WET(176,184)   WET(177,185)
   WET(181,184)   WET(196,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=145  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,161)   DRY(176,182)   DRY(177,178)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=146  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,161)   WET(109,161)   WET(116,162)   WET(174,191)   WET(176,182)
   WET(177,178)   WET(177,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=147  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006
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```
    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=148  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,174)   DRY(116,162)   DRY(176,186)   DRY(177,183)   DRY(177,186)
   DRY(179,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000000

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=149  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(196,199)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=150  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,174)   WET(116,162)   DRY(173,191)   WET(176,186)   WET(177,183)
   WET(177,186)   DRY(177,188)   DRY(178,189)   WET(179,186)   WET(196,199)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
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         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=151  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(111,162)   DRY(175,188)   DRY(176,181)   DRY(176,183)   DRY(176,184)
   DRY(176,185)   DRY(177,187)   DRY(178,184)   DRY(183,184)   DRY(186,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=152  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(111,162)   WET(173,191)   WET(175,188)   WET(176,181)   WET(176,183)
   WET(176,184)   WET(176,185)   WET(177,187)   WET(177,188)   WET(178,184)
   WET(178,189)   WET(183,184)   WET(186,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=153  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
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CELL CONVERSIONS FOR ITER.=154  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,171)   DRY(102,175)   DRY(110,163)   WET(116,162)   DRY(175,184)
   DRY(175,185)   DRY(175,187)   DRY(176,187)   DRY(178,185)   DRY(182,185)
   DRY(182,186)   DRY(183,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=155  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,173)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=156  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,171)   WET(100,173)   WET(102,175)   WET(110,163)   WET(175,184)
   WET(175,185)   WET(175,187)   WET(176,187)   WET(178,185)   WET(182,185)
   WET(182,186)   WET(183,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=157  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,170)   DRY(107,162)   DRY(108,161)   DRY(109,160)   DRY(178,186)
   DRY(179,185)   DRY(181,185)   DRY(185,184)

AVERAGE SEED = 0.00002146
```

```
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=158  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,170)   WET(107,162)   DRY(107,185)   WET(108,161)   WET(109,160)
   WET(178,186)   WET(179,185)   WET(181,185)   WET(185,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=159  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,162)   DRY(113,162)   DRY(116,162)   DRY(198,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=160  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,185)   WET(110,162)   WET(113,162)   WET(116,162)   DRY(176,188)
   DRY(179,184)   WET(198,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=161  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(183,185)   DRY(196,195)   DRY(197,194)   DRY(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=162  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,186)   WET(176,188)   WET(179,184)   WET(183,185)   WET(196,195)
   WET(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=163  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(174,187)   DRY(177,184)   DRY(177,185)   DRY(177,189)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
```

```
CELL CONVERSIONS FOR ITER.=164  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(174,187)   WET(175,186)   WET(177,184)   WET(177,185)   WET(177,189)
   WET(197,195)   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=165  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(112,163)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=166  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,186)   WET(112,163)   DRY(113,163)   DRY(116,162)   DRY(176,185)
   DRY(176,186)   DRY(179,188)   DRY(180,185)   DRY(180,186)   WET(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=168  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,186)   WET(113,163)   WET(116,162)   DRY(173,189)   WET(176,185)
   WET(176,186)   WET(179,188)   WET(180,185)   WET(180,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=169  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(111,161)   DRY(112,162)   DRY(175,184)   DRY(176,184)   DRY(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=170  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,173)   WET(111,161)   WET(112,162)   WET(173,189)   WET(175,184)
   DRY(175,185)   WET(176,184)   WET(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
```

```
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=171  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(115,162)   DRY(184,185)   DRY(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=172  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,172)   WET( 99,173)   WET(115,162)   DRY(174,189)   WET(175,185)
   DRY(179,186)   DRY(181,186)   WET(184,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=173  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(112,161)   DRY(114,161)   DRY(116,162)   DRY(195,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=174  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,172)   DRY(101,175)   WET(112,161)   WET(114,161)   WET(116,162)
   DRY(174,186)   WET(174,189)   WET(179,186)   WET(181,186)   WET(195,195)

AVERAGE SEED = 0.00002146
```

```
 MINIMUM SEED = 0.00000003

     6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


          SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
          -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                 ACCELERATION PARAMETER =    0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

     CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=175  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    DRY(176,182)   DRY(177,179)   DRY(177,182)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000001

     6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


          SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
          -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                 ACCELERATION PARAMETER =    0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

     CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=176  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    WET(101,175)   WET(174,186)   WET(176,182)   WET(177,179)   WET(177,182)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000002

     6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


          SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
          -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                 ACCELERATION PARAMETER =    0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

     CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=177  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    DRY(107,185)   DRY(111,163)   DRY(180,184)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000002

     6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00


          SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
```

```
          ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=178  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,171)   WET(107,185)   WET(111,163)   DRY(116,162)   DRY(117,162)
   DRY(176,183)   DRY(177,186)   DRY(178,184)   DRY(178,185)   WET(180,184)
   DRY(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=179  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(111,162)   DRY(196,197)   DRY(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=180  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,171)   WET(111,162)   WET(116,162)   WET(117,162)   DRY(174,188)
   WET(176,183)   WET(177,186)   WET(178,184)   WET(178,185)   DRY(180,187)
   WET(181,185)   WET(196,197)   WET(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         ------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10
```

```
    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=181  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   DRY( 99,172)    DRY(104,160)    DRY(108,160)    DRY(109,162)    DRY(115,161)
   DRY(177,180)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=182  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   WET( 99,172)    DRY(100,174)    WET(104,160)    WET(108,160)    WET(109,162)
   WET(115,161)    WET(174,188)    WET(177,180)    WET(180,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=183  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   DRY(107,184)    DRY(114,162)    DRY(197,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=184  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   WET(100,174)    DRY(102,174)    WET(107,184)    WET(114,162)    DRY(114,163)
   DRY(116,162)    DRY(175,187)    DRY(175,188)    DRY(176,184)    DRY(178,187)
   WET(197,193)    DRY(198,194)

AVERAGE SEED = 0.00002146
```

```
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=185  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(113,162)   DRY(176,180)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=186  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(102,174)   WET(113,162)   WET(114,163)   WET(116,162)   WET(175,187)
   WET(175,188)   WET(176,180)   WET(176,184)   DRY(177,185)   WET(178,187)
   WET(197,195)   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=187  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,185)   DRY(177,177)   DRY(178,182)   DRY(179,187)   DRY(196,198)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=188  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(175,185)   DRY(176,184)   WET(177,177)   WET(177,185)   WET(178,182)
   WET(179,187)   WET(196,198)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=190  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,164)   DRY(116,162)   DRY(175,186)   WET(176,184)   DRY(176,185)
   DRY(176,187)   DRY(178,186)   DRY(179,185)   DRY(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=191  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
```

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   DRY(112,162)    DRY(113,161)    DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=192  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(110,164)    WET(112,162)    WET(113,161)    WET(116,162)    DRY(174,187)
   WET(175,186)    WET(176,185)    WET(176,187)    WET(178,186)    WET(179,185)
   WET(183,185)    WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=193  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(106,160)    DRY(175,184)    DRY(175,189)    DRY(176,181)    DRY(176,184)
   DRY(177,176)    DRY(177,183)    DRY(178,177)    DRY(178,180)    DRY(178,183)
   DRY(179,179)    DRY(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=194  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(106,160)    DRY(107,185)    WET(174,187)    WET(175,184)    WET(175,189)
   WET(176,181)    WET(176,184)    WET(177,176)    WET(177,183)    WET(178,177)
   WET(178,180)    WET(178,183)    WET(179,179)    WET(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003
```

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    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=195  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(177,181)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=196  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,174)   WET(107,185)   DRY(116,162)   DRY(173,190)   DRY(175,185)
   WET(177,181)   DRY(177,184)   DRY(177,187)   DRY(177,188)   DRY(178,188)
   DRY(183,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=197  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(109,161)   DRY(109,163)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=198  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,174)   WET(109,161)   WET(109,163)   WET(116,162)   WET(173,190)
   WET(175,185)   DRY(175,190)   WET(177,184)   WET(177,187)   WET(177,188)
   WET(178,188)   WET(183,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=199  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,183)   DRY(179,186)   DRY(182,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=200  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(175,183)   WET(175,190)   WET(179,186)   WET(182,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED
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```
CELL CONVERSIONS FOR ITER.=201  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(176,186)   DRY(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=202  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(102,173)   DRY(107,186)   DRY(110,163)   DRY(113,162)   DRY(116,162)
   DRY(174,185)   DRY(176,182)   DRY(176,183)   WET(176,186)   WET(178,185)
   DRY(180,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000000

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=204  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(101,175)   WET(102,173)   WET(107,186)   WET(110,163)   WET(113,162)
   WET(116,162)   DRY(173,188)   WET(174,185)   DRY(174,190)   WET(176,182)
   WET(176,183)   DRY(176,190)   WET(180,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:
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```
 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=205  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,172)   DRY(110,162)   DRY(176,184)   DRY(177,186)   DRY(180,181)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000000

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=206  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,172)   WET(101,175)   WET(110,162)   WET(173,188)   WET(174,190)
   WET(176,184)   WET(176,190)   WET(177,186)   WET(180,181)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=207  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
```

```
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=208  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(116,162)   DRY(177,185)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=209  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,161)   DRY(177,178)   DRY(196,194)   DRY(196,195)   DRY(197,192)
   DRY(199,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=210  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(110,161)   DRY(175,185)   WET(177,178)   WET(177,185)   DRY(195,196)
   WET(196,194)   WET(196,195)   WET(197,192)   WET(199,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=211  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(106,161)   DRY(175,182)   DRY(175,187)   DRY(176,184)   DRY(177,184)
   DRY(178,178)   DRY(181,181)   DRY(181,182)   DRY(184,183)   DRY(184,185)
```

```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=212  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(106,161)   DRY(107,185)   WET(175,182)   WET(175,185)   WET(175,187)
   WET(176,184)   WET(177,184)   WET(178,178)   WET(181,181)   WET(181,182)
   WET(184,183)   WET(184,185)   WET(195,196)   WET(197,195)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883506E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=213  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,171)   DRY(108,161)   DRY(116,162)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=214  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,171)   WET(107,185)   WET(108,161)   WET(116,162)   DRY(174,188)
   DRY(175,186)   DRY(176,185)   DRY(176,189)   DRY(182,185)   DRY(196,193)
   DRY(197,194)   DRY(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:
```

```
 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=215  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(196,196)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=216  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(174,188)   WET(175,186)   WET(176,185)   WET(176,189)   WET(182,185)
   WET(196,193)   WET(196,196)   WET(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=217  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(111,162)   DRY(175,184)   DRY(176,180)   DRY(176,184)   DRY(176,188)
   DRY(177,179)   DRY(179,183)   DRY(180,182)   DRY(181,185)   DRY(183,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
```

```
                ACCELERATION PARAMETER =     0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=218  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(111,162)   DRY(111,163)   WET(175,184)   WET(176,180)   WET(176,184)
   WET(176,188)   WET(177,179)   WET(179,183)   WET(180,182)   WET(181,185)
   WET(183,185)   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =     0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=219  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =     0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=220  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,173)   DRY(100,174)   DRY(102,176)   WET(111,163)   WET(116,162)
   DRY(175,185)   DRY(177,182)   DRY(178,184)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =     0.10000E-01
      HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
      SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=221  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
```

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   DRY(112,162)    DRY(196,199)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=222  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,173)    WET(100,174)    WET(102,176)    WET(112,162)    DRY(173,187)
   DRY(174,187)    DRY(174,189)    WET(175,185)    WET(177,182)    WET(178,184)
   WET(196,199)

AVERAGE SEED = 0.00002145
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=223  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,181)    DRY(176,181)    DRY(176,187)    DRY(177,183)    DRY(178,181)
   DRY(178,186)    DRY(178,187)    DRY(179,180)    DRY(179,184)    DRY(180,185)
   DRY(180,186)    DRY(181,183)    DRY(181,184)    DRY(184,182)    DRY(187,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=224  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(116,162)    WET(173,187)    WET(174,187)    WET(174,189)    WET(175,181)
   WET(176,181)    WET(176,187)    WET(177,183)    WET(178,181)    WET(178,186)
   WET(178,187)    WET(179,180)    WET(179,184)    WET(180,185)    WET(180,186)
   WET(181,183)    WET(181,184)    WET(184,182)    WET(187,184)

AVERAGE SEED = 0.00002146
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```
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=225  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(114,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=226  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 98,172)   DRY( 99,172)   DRY(100,173)   DRY(112,163)   WET(114,162)
   WET(116,162)   DRY(176,183)   DRY(176,186)   DRY(178,185)   DRY(179,185)
   DRY(196,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=227  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(197,195)   DRY(199,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00
```

```
         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=228  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 98,172)   WET( 99,172)   WET(100,173)   WET(112,163)   WET(176,183)
   WET(176,186)   DRY(177,186)   WET(178,185)   WET(196,194)   WET(197,195)
   WET(199,193)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=229  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(176,182)   DRY(176,184)   DRY(178,179)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=230  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(176,182)   WET(176,184)   WET(177,186)   WET(178,179)   WET(179,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10
```

```
    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=232  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(113,162)   DRY(116,162)   DRY(175,188)   DRY(177,184)   DRY(177,185)
   DRY(177,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=233  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=234  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(113,162)   WET(116,162)   WET(175,188)   WET(177,184)   WET(177,185)
   WET(177,187)   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
```

```
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=235  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(175,185)   DRY(176,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000007

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=236  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,185)   WET(175,185)   WET(176,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=237  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10
```

```
    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=238  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,185)   DRY(108,162)   DRY(175,184)   DRY(175,186)   DRY(175,187)
   DRY(176,184)   DRY(176,185)   DRY(179,186)   DRY(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=240  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(107,161)   WET(108,162)   DRY(116,162)   WET(175,184)   WET(175,186)
   WET(175,187)   WET(176,185)   WET(179,186)   WET(181,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
              ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=241  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(109,164)   DRY(110,162)   DRY(111,161)   DRY(114,161)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:
```

```
 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

   CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=242  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(107,161)   WET(109,164)   WET(110,162)   WET(111,161)   WET(114,161)
   WET(116,162)   WET(176,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=243  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(115,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=244  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(102,175)   DRY(107,186)   WET(115,162)   DRY(174,186)   DRY(175,185)
   DRY(179,187)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
```

```
                ACCELERATION PARAMETER =     0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =     0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =        10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=245  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    DRY(109,162)   DRY(111,164)   DRY(112,161)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
  0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =      2000
                ACCELERATION PARAMETER =     0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =     0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =        10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=246  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    WET(102,175)   WET(107,186)   WET(109,162)   WET(111,164)   WET(112,161)
    DRY(116,162)   DRY(117,162)   WET(174,186)   WET(175,185)   WET(179,187)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =      2000
                ACCELERATION PARAMETER =     0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =     0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =        10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=247  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    DRY(105,160)   DRY(111,162)   DRY(174,187)   DRY(177,180)   DRY(180,183)
    DRY(184,184)

 AVERAGE SEED = 0.00002146
 MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

  0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
  0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
 MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =      2000
                ACCELERATION PARAMETER =     0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =     0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =        10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

 CELL CONVERSIONS FOR ITER.=248  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
    WET(105,160)   WET(111,162)   DRY(112,162)   WET(116,162)   WET(117,162)
```

```
   WET(174,187)    WET(177,180)    WET(180,183)    WET(184,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=249  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   DRY(102,170)    DRY(107,184)    DRY(181,185)    DRY(196,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=250  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   WET(102,170)    WET(107,184)    WET(112,162)    DRY(116,162)    DRY(174,188)
   DRY(177,188)    DRY(178,184)    DRY(178,185)    DRY(178,186)    WET(181,185)
   DRY(181,186)    DRY(182,185)    WET(196,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=251  LAYER=  1  STEP=  1  PERIOD=  1    (ROW,COL)
   DRY(101,170)    DRY(196,197)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
```

```
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=252  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(101,170)   WET(116,162)   WET(174,188)   WET(177,188)   WET(178,184)
   WET(178,185)   WET(178,186)   WET(181,186)   WET(182,185)   WET(196,197)
   WET(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=253  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(176,183)   DRY(176,184)   DRY(176,186)   DRY(176,187)   DRY(177,177)
   DRY(177,186)   DRY(178,182)   DRY(185,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=254  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(176,183)   WET(176,184)   WET(176,186)   WET(176,187)   WET(177,177)
   WET(177,186)   WET(178,182)   WET(185,185)   WET(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
```

```
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=255  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(102,175)   DRY(107,185)   DRY(110,163)   DRY(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=256  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 97,170)   DRY(100,172)   WET(102,175)   WET(107,185)   WET(110,163)
   DRY(113,162)   DRY(116,162)   DRY(177,185)   DRY(181,185)   WET(197,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000006

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=257  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(178,183)   DRY(196,198)   DRY(198,194)   DRY(198,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=258  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 97,170)   WET(100,172)   DRY(100,174)   WET(113,162)   WET(116,162)
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   DRY(173,190)    WET(177,185)    WET(178,183)    WET(181,185)    WET(196,198)
   WET(198,194)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=259  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(109,161)    DRY(174,185)    DRY(175,184)    DRY(175,185)    DRY(176,179)
   DRY(176,184)    DRY(176,185)    DRY(177,181)    DRY(180,184)    DRY(182,186)
   DRY(183,183)    DRY(183,184)    DRY(184,185)    DRY(186,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883503E+00 0.986428E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=260  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,174)    WET(109,161)    WET(173,190)    WET(174,185)    WET(175,184)
   WET(176,179)    WET(177,181)    WET(180,184)    WET(182,186)    WET(183,183)
   WET(183,184)    WET(184,185)    WET(186,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000005

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
```

```
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=262  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,171)   DRY( 99,173)   WET(175,185)   DRY(175,186)   WET(176,184)
   DRY(176,188)   DRY(177,184)   DRY(179,184)   DRY(179,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=263  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(113,161)   DRY(116,162)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=264  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,171)   WET( 99,173)   WET(113,161)   WET(116,162)   WET(175,186)
   WET(176,185)   WET(176,188)   WET(177,184)   WET(179,184)   WET(179,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
```

```
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=265  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,161)   DRY(176,181)   DRY(177,178)   DRY(180,185)   DRY(183,185)
   DRY(185,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=266  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(110,161)   DRY(114,162)   WET(176,181)   WET(177,178)   WET(180,185)
   WET(183,185)   WET(185,184)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=267  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(100,171)   DRY(197,195)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=268  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(100,171)   WET(114,162)   DRY(116,162)   DRY(178,187)   DRY(180,186)
   DRY(182,185)   WET(197,195)
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```
AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000001

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=270  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(116,162)   DRY(175,187)   WET(178,187)   WET(180,186)   WET(182,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
               ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=271  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(110,160)   DRY(177,183)   DRY(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00



         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
```

```
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=272  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET(110,160)   WET(175,187)   WET(177,183)   WET(178,185)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000004

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=273  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY( 99,172)   DRY(102,174)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=274  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   WET( 99,172)   DRY(101,175)   WET(102,174)   DRY(107,185)   DRY(111,163)
   DRY(176,182)   DRY(179,186)

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000003

    6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

 0.000000E+00 0.883505E+00 0.986429E+00 0.998419E+00 0.999816E+00
 0.999979E+00


         SOLUTION BY THE STRONGLY IMPLICIT PROCEDURE
         -------------------------------------------
MAXIMUM ITERATIONS ALLOWED FOR CLOSURE =     2000
                ACCELERATION PARAMETER =    0.10000E-01
     HEAD CHANGE CRITERION FOR CLOSURE =    0.30000E-01
     SIP HEAD CHANGE PRINTOUT INTERVAL =       10

    CALCULATE ITERATION PARAMETERS FROM MODEL CALCULATED WSEED

CELL CONVERSIONS FOR ITER.=275  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(184,186)   DRY(186,185)   DRY(197,195)   DRY(198,193)
```

AVERAGE SEED = 0.00002146
MINIMUM SEED = 0.00000002

6 ITERATION PARAMETERS CALCULATED FROM AVERAGE SEED:

0.000000E+00 0.883504E+00 0.986429E+00 0.998419E+00 0.999816E+00
0.999979E+00

275 ITERATIONS FOR TIME STEP 1 IN STRESS PERIOD 1

MAXIMUM HEAD CHANGE FOR EACH ITERATION:

HEAD CHANGE LAYER,ROW,COL	HEAD CHANGE LAYER,ROW,COL	HEAD CHANGE LAYER,ROW,COL	HEAD CHANGE LAYER,ROW,COL	HEAD CHANGE LAYER,ROW,COL
0.3762E-01	0.4442E-01	0.7091E-01	0.3374E-01	0.6123E-01
(1,179,185)	(1,113,162)	(1,175,185)	(1,178,185)	(1,174,187)
0.5334E-01	0.4341E-01	0.5150E-01	0.7133E-01	0.7861E-01
(1,177,177)	(1,176,182)	(1,176,183)	(1,175,184)	(1,176,183)
0.4513E-01	0.1311	0.3998E-01	0.5306E-01	0.6427E-01
(1,174,187)	(1,175,183)	(1,176,183)	(1,112,162)	(1,176,185)
0.3647E-01	0.4834E-01	0.1472	0.4694E-01	0.4593E-01
(1,177,176)	(1,113,162)	(1,176,183)	(1,177,178)	(1,177,179)
0.4724E-01	0.7480E-01	0.5117E-01	0.1806	0.5566E-01
(1,175,184)	(1,177,179)	(1,112,163)	(1,177,180)	(1,177,180)
0.3737E-01	0.5545E-01	0.3644E-01	0.4094E-01	0.1732
(1,112,162)	(1,174,187)	(1,177,179)	(1,174,187)	(1,176,181)
0.4080E-01	0.5566E-01	0.6661E-01	0.7543E-01	0.5589E-01
(1,176,181)	(1,176,182)	(1,176,185)	(1,176,182)	(1,114,162)
0.1077	0.3961E-01	0.4969E-01	0.5105E-01	0.7297E-01
(1,176,182)	(1,112,162)	(1,176,183)	(1,101,175)	(1,176,183)
0.5928E-01	0.1111	0.4633E-01	0.4629E-01	0.7610E-01
(1,114,162)	(1,176,183)	(1,175,184)	(1,113,162)	(1,175,184)
0.5684E-01	0.3437E-01	0.1836	0.4012E-01	0.4342E-01
(1,177,178)	(1,176,187)	(1,176,183)	(1,176,183)	(1,113,162)
0.6164E-01	0.4804E-01	0.5307E-01	0.1414	0.4225E-01
(1,178,185)	(1,177,178)	(1,113,163)	(1,177,178)	(1,177,178)
0.5132E-01	0.7572E-01	0.3781E-01	0.5977E-01	0.1246
(1,113,162)	(1,176,185)	(1,177,184)	(1,115,162)	(1,177,179)
0.5258E-01	0.5724E-01	0.7129E-01	0.6801E-01	0.5217E-01
(1,115,162)	(1,112,162)	(1,176,185)	(1,112,162)	(1,115,162)
0.1197	0.4521E-01	0.5439E-01	0.6480E-01	0.4539E-01
(1,176,180)	(1,176,182)	(1,113,162)	(1,175,184)	(1,111,162)
0.4009E-01	0.1184	0.3797E-01	0.5230E-01	0.6281E-01
(1,174,187)	(1,177,179)	(1,113,162)	(1,113,162)	(1,176,185)
0.4791E-01	0.3259E-01	0.1087	0.4103E-01	0.5143E-01
(1,177,182)	(1,176,186)	(1,177,179)	(1,113,162)	(1,113,162)
0.7082E-01	0.5076E-01	0.8082E-01	0.7930E-01	0.3896E-01
(1,176,185)	(1,176,183)	(1,113,162)	(1,176,183)	(1,114,162)
0.4603E-01	0.7382E-01	0.3192E-01	0.5859E-01	0.1307
(1,112,162)	(1,178,185)	(1,177,178)	(1,114,162)	(1,177,178)
0.3784E-01	0.4759E-01	0.6943E-01	0.3255E-01	0.3507E-01
(1,113,162)	(1,113,162)	(1,177,185)	(1,177,178)	(1,111,163)
0.1134	0.4425E-01	0.4400E-01	0.5414E-01	0.3638E-01
(1,177,178)	(1,113,162)	(1,177,178)	(1,176,185)	(1,180,178)
0.4417E-01	0.9061E-01	0.4059E-01	0.4315E-01	0.6222E-01
(1,115,162)	(1,176,183)	(1,177,178)	(1,113,162)	(1,177,185)
0.3513E-01	0.5650E-01	0.1345	0.4548E-01	0.4684E-01
(1,176,183)	(1,114,162)	(1,176,183)	(1,178,180)	(1,112,162)
0.6572E-01	0.7178E-01	0.6920E-01	0.1196	0.3450E-01
(1,177,185)	(1,177,180)	(1,114,162)	(1,176,180)	(1,114,162)
0.5620E-01	0.5564E-01	0.6044E-01	0.4118E-01	0.2036
(1,112,162)	(1,178,185)	(1,112,162)	(1,114,162)	(1,176,184)
0.4258E-01	0.4356E-01	0.9023E-01	0.4017E-01	0.6640E-01
(1,180,183)	(1,113,162)	(1,175,184)	(2,176,183)	(1,176,185)
0.1149	0.4036E-01	0.4579E-01	0.1019	0.5960E-01
(1,176,182)	(1,114,162)	(1,176,183)	(1,176,184)	(1,176,183)
0.5322E-01	0.1546	0.4228E-01	0.4530E-01	0.1020
(1,114,162)	(1,176,183)	(1,176,183)	(1,113,162)	(1,176,185)
0.4175E-01	0.4263E-01	0.9231E-01	0.4754E-01	0.3896E-01
(1,176,183)	(1,175,187)	(1,176,183)	(1,113,162)	(1,112,162)
0.8541E-01	0.4349E-01	0.5313E-01	0.7857E-01	0.3706E-01
(1,178,185)	(2,176,185)	(1,115,162)	(1,175,184)	(1,114,162)
0.4965E-01	0.7576E-01	0.4164E-01	0.4312E-01	0.8591E-01
(1,112,162)	(1,176,184)	(1,111,162)	(1,174,187)	(1,177,185)

```
   0.4415E-01    0.4833E-01    0.8877E-01    0.6207E-01    0.4874E-01
(  1,176,182) (  1,176,184) (  1,176,185) (  1,176,184) (  1,174,187)
   0.1148        0.4108E-01    0.4512E-01    0.9023E-01    0.4838E-01
(  1,175,184) (  1,114,162) (  1,175,184) (  1,175,185) (  1,176,183)
   0.4060E-01    0.9897E-01    0.3910E-01    0.3052E-01    0.7223E-01
(  1,175,185) (  1,176,183) (  1,113,162) (  1,177,184) (  1,177,185)
   0.3110E-01    0.5511E-01    0.8626E-01    0.3574E-01    0.4107E-01
(  1,185,184) (  1,174,187) (  1,176,181) (  1,107,186) (  1,112,162)
   0.7282E-01    0.5079E-01    0.6043E-01    0.7648E-01    0.4882E-01
(  1,175,184) (  1,112,162) (  1,174,187) (  1,176,181) (  1,176,181)
   0.4788E-01    0.5541E-01    0.4602E-01    0.3061E-01    0.1065
(  1,113,162) (  1,175,185) (  1,111,162) (  1,176,188) (  1,177,179)
   0.4537E-01    0.3835E-01    0.6704E-01    0.4257E-01    0.6735E-01
(  1,115,162) (  1,115,162) (  1,178,185) (  1,176,183) (  1,114,162)
   0.1299        0.3643E-01    0.5664E-01    0.7083E-01    0.4942E-01
(  1,176,183) (  1,113,162) (  1,113,162) (  1,177,185) (  1,176,180)
   0.4808E-01    0.1762        0.5127E-01    0.4976E-01    0.7623E-01
(  1,114,162) (  1,176,183) (  1,176,180) (  1,112,162) (  1,175,185)
   0.4781E-01    0.5305E-01    0.1410        0.3760E-01    0.4585E-01
(  1,111,162) (  1,174,187) (  1,176,181) (  1,114,162) (  1,113,162)
   0.5969E-01    0.4172E-01    0.7751E-01    0.1506        0.4619E-01
(  1,174,187) (  1,177,177) (  1,114,162) (  1,176,183) (  1,176,183)
   0.4899E-01    0.5885E-01    0.6825E-01    0.5241E-01    0.1714
(  1,176,183) (  1,176,186) (  1,176,183) (  1,176,186) (  1,176,183)
   0.4436E-01    0.4869E-01    0.4889E-01    0.3834E-01    0.3664E-01
(  1,176,183) (  1,113,162) (  1,113,162) (  2,176,184) (  1,174,187)
   0.1217        0.4727E-01    0.4631E-01    0.5738E-01    0.6901E-01
(  1,177,178) (  1,177,178) (  1,113,162) (  1,175,185) (  1,178,183)
   0.4347E-01    0.1243        0.3454E-01    0.3303E-01    0.5711E-01
(  1,175,186) (  1,177,179) (  1,176,180) (  1,177,179) (  1,174,187)
   0.3816E-01    0.4791E-01    0.9736E-01    0.5386E-01    0.4120E-01
(  1,181,180) (  1,174,187) (  1,177,179) (  1,176,183) (  1,176,183)
   0.7299E-01    0.4253E-01    0.4986E-01    0.6530E-01    0.3829E-01
(  1,176,184) (  1,180,178) (  1,114,162) (  1,176,183) (  1,176,183)
   0.4653E-01    0.7326E-01    0.5290E-01    0.4682E-01    0.6838E-01
(  1,112,162) (  1,177,185) (  1,111,162) (  1,176,186) (  1,175,185)
   0.3673E-01    0.3903E-01    0.7816E-01    0.4842E-01    0.5406E-01
(  1,176,183) (  1,112,162) (  1,175,184) (  1,112,162) (  1,175,186)
   0.1119        0.3809E-01    0.4011E-01    0.5505E-01    0.5724E-01
(  1,176,182) (  1,113,162) (  1,113,162) (  1,113,162) (  1,179,185)
   0.3059E-01    0.1275        0.4074E-01    0.4230E-01    0.5501E-01
(  1,174,189) (  1,176,180) (  1,184,184) (  1,176,183) (  1,174,187)
   0.4549E-01    0.4746E-01    0.1201        0.4847E-01    0.4382E-01
(  1,111,162) (  1,174,187) (  1,176,183) (  1,184,184) (  1,112,162)
   0.5849E-01    0.5385E-01    0.3556E-01    0.1002        0.4367E-01
(  1,177,185) (  1,111,162) (  1,174,187) (  1,175,184) (  1,115,162)
   0.3926E-01    0.8147E-01    0.5112E-01    0.3514E-01    0.7759E-01
(  1,112,162) (  1,175,184) (  1,112,162) (  1,175,185) (  1,177,178)
   0.4349E-01    0.4175E-01    0.7679E-01    0.3208E-01    0.2641E-01
(  1,177,178) (  1,112,162) (  1,176,185) (  2,176,186) (  1,174,187)

HEAD/DRAWDOWN PRINTOUT FLAG = 1     TOTAL BUDGET PRINTOUT FLAG = 1
CELL-BY-CELL FLOW TERM FLAG = 1

OUTPUT FLAGS FOR ALL LAYERS ARE THE SAME:
  HEAD    DRAWDOWN  HEAD  DRAWDOWN
PRINTOUT  PRINTOUT  SAVE    SAVE
-----------------------------------
    0         0       1       1
UBUDSV SAVING "   CONSTANT HEAD" ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
UBUDSV SAVING "FLOW RIGHT FACE " ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
UBUDSV SAVING "FLOW FRONT FACE " ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
UBUDSV SAVING "FLOW LOWER FACE " ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
UBUDSV SAVING "   RIVER LEAKAGE" ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
UBUDSV SAVING " HEAD DEP BOUNDS" ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
UBUDSV SAVING "        RECHARGE" ON UNIT154 AT TIME STEP  1, STRESS PERIOD    1
------------------
CALIBRATION PACKAGE OUTPUT
CALIBRATION OUTPUT POINTS
------------------
          LAYER    COLUMN     ROW            BLOCK VALUE          INTERPOLATED VALUE
            1        132       148          0.658486E+03            0.658399E+03
            5        131       148          0.662662E+03            0.662516E+03
            5        129       146          0.663276E+03            0.663149E+03
            3        127       150          0.658900E+03            0.658957E+03
```

3	133	154	0.658859E+03	0.658959E+03
1	193	134	0.671700E+03	0.671635E+03
1	192	134	0.671557E+03	0.671557E+03
1	191	134	0.671411E+03	0.671408E+03
1	193	130	0.671780E+03	0.671715E+03
5	193	134	0.670205E+03	0.670203E+03
1	136	37	0.718871E+03	0.718826E+03
3	135	37	0.718134E+03	0.717994E+03
6	135	37	0.717961E+03	0.717846E+03
1	226	96	0.681398E+03	0.681358E+03
5	226	95	0.679622E+03	0.679551E+03
6	226	96	0.678315E+03	0.678353E+03
1	198	20	0.697958E+03	0.697921E+03
1	198	20	0.697958E+03	0.697879E+03
4	199	20	0.709325E+03	0.708771E+03
1	90	158	0.654870E+03	0.654937E+03
6	90	158	0.658153E+03	0.658138E+03
1	198	216	0.642050E+03	0.641840E+03
6	198	216	0.617390E+03	0.617000E+03
1	155	183	0.656621E+03	0.656649E+03
1	232	167	0.670971E+03	0.670946E+03
5	232	166	0.655923E+03	0.655579E+03
2	122	132	0.665529E+03	0.665538E+03
4	123	132	0.668018E+03	0.668016E+03
4	125	132	0.668298E+03	0.668244E+03
4	126	138	0.664525E+03	0.664619E+03
3	128	161	0.657642E+03	0.657585E+03
3	148	156	0.659978E+03	0.659937E+03
4	146	157	0.659934E+03	0.659997E+03
3	165	73	0.700419E+03	0.700634E+03
3	173	93	0.688127E+03	0.688156E+03
2	171	117	0.670301E+03	0.670257E+03
2	136	84	0.712308E+03	0.711890E+03
3	137	96	0.693159E+03	0.693313E+03
4	120	72	0.696973E+03	0.696891E+03
3	150	66	0.705456E+03	0.705309E+03
4	137	80	0.698642E+03	0.698700E+03
3	115	99	0.685247E+03	0.685460E+03
2	102	108	0.671215E+03	0.671010E+03
3	108	120	0.671091E+03	0.670871E+03
3	122	117	0.678000E+03	0.678081E+03
3	148	91	0.694457E+03	0.694441E+03
3	152	118	0.676869E+03	0.677069E+03
1	172	122	0.669142E+03	0.669057E+03

```
***Link-MT3DMS Package***
OPENING LINK-MT3DMS OUTPUT FILE: K:\Wbgm\Client
ON UNIT NUMBER:   175
FILE TYPE: UNFORMATTED
HEADER OPTION: EXTENDED
***Link-MT3DMS Package***


SAVING SATURATED THICKNESS AND FLOW TERMS ON UNIT  175 FOR MT3DMS
BY THE LINK-MT3DMS PACKAGE V6.3 AT TIME STEP    1, STRESS PERIOD    1


HEAD WILL BE SAVED ON UNIT  150 AT END OF TIME STEP   1, STRESS PERIOD    1

DRAWDOWN WILL BE SAVED ON UNIT  151 AT END OF TIME STEP   1, STRESS PERIOD    1
1
 VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD   1
 ------------------------------------------------------------------------------

    CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
    ------------------              ------------------------

         IN:                                IN:
         ---                                ---
           STORAGE =           0.0000             STORAGE =           0.0000
    CONSTANT HEAD =   199235136.0000      CONSTANT HEAD =      181949.8906
     RIVER LEAKAGE =   136278320.0000       RIVER LEAKAGE =      124455.0938
   HEAD DEP BOUNDS =           0.0000     HEAD DEP BOUNDS =           0.0000
         RECHARGE =   238876752.0000           RECHARGE =      218152.2812
```

TOTAL IN =	574390208.0000	TOTAL IN =	524557.2500
OUT:		OUT:	
STORAGE =	0.0000	STORAGE =	0.0000
CONSTANT HEAD =	142102496.0000	CONSTANT HEAD =	129773.9688
RIVER LEAKAGE =	185106784.0000	RIVER LEAKAGE =	169047.2969
HEAD DEP BOUNDS =	238678064.0000	HEAD DEP BOUNDS =	217970.8281
RECHARGE =	0.0000	RECHARGE =	0.0000
TOTAL OUT =	565887360.0000	TOTAL OUT =	516792.0625
IN - OUT =	8502848.0000	IN - OUT =	7765.1875
PERCENT DISCREPANCY =	1.49	PERCENT DISCREPANCY =	1.49

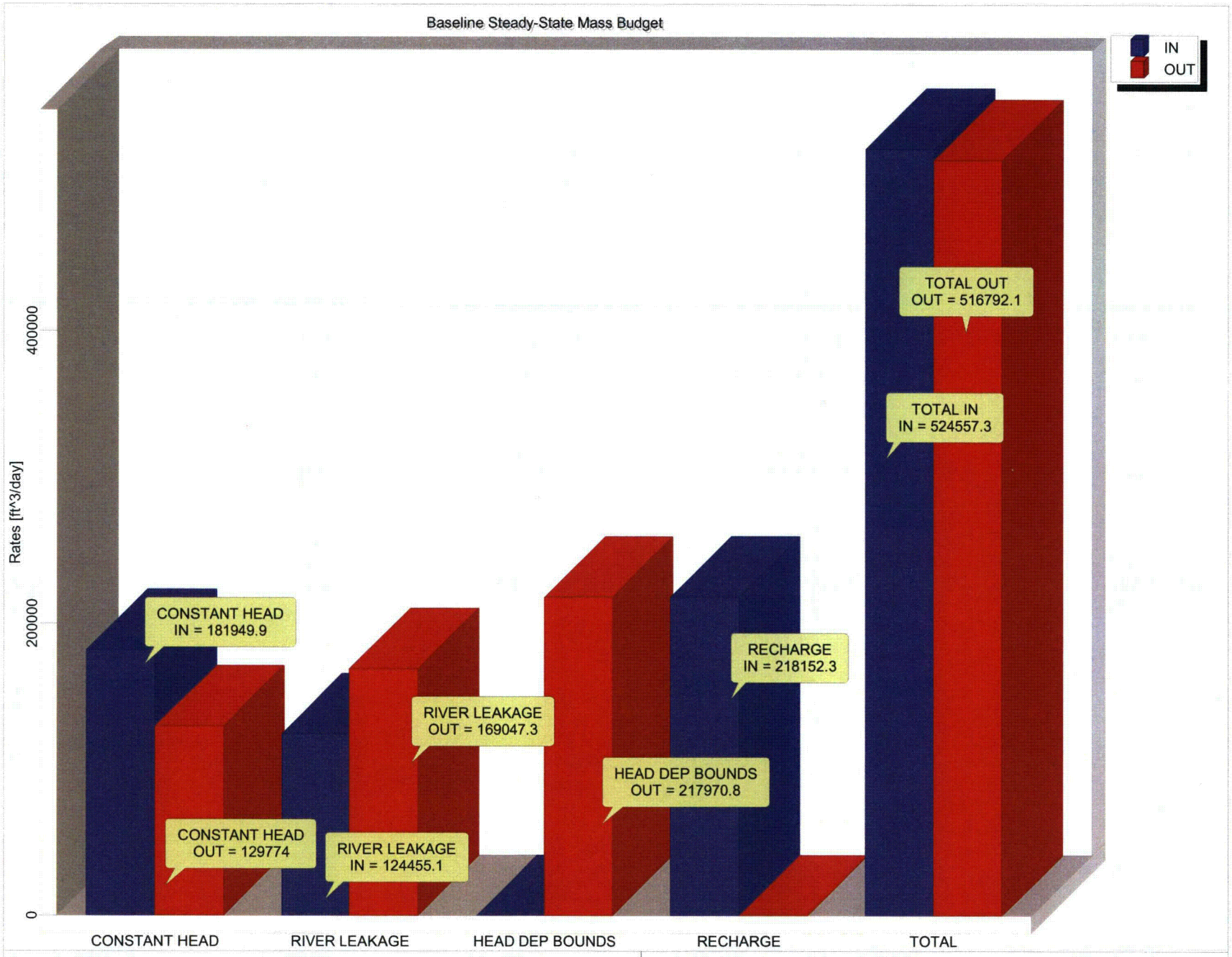
TIME SUMMARY AT END OF TIME STEP 1 IN STRESS PERIOD 1

	SECONDS	MINUTES	HOURS	DAYS	YEARS
TIME STEP LENGTH	9.46080E+07	1.57680E+06	26280.	1095.0	2.9979
STRESS PERIOD TIME	9.46080E+07	1.57680E+06	26280.	1095.0	2.9979
TOTAL TIME	9.46080E+07	1.57680E+06	26280.	1095.0	2.9979

1

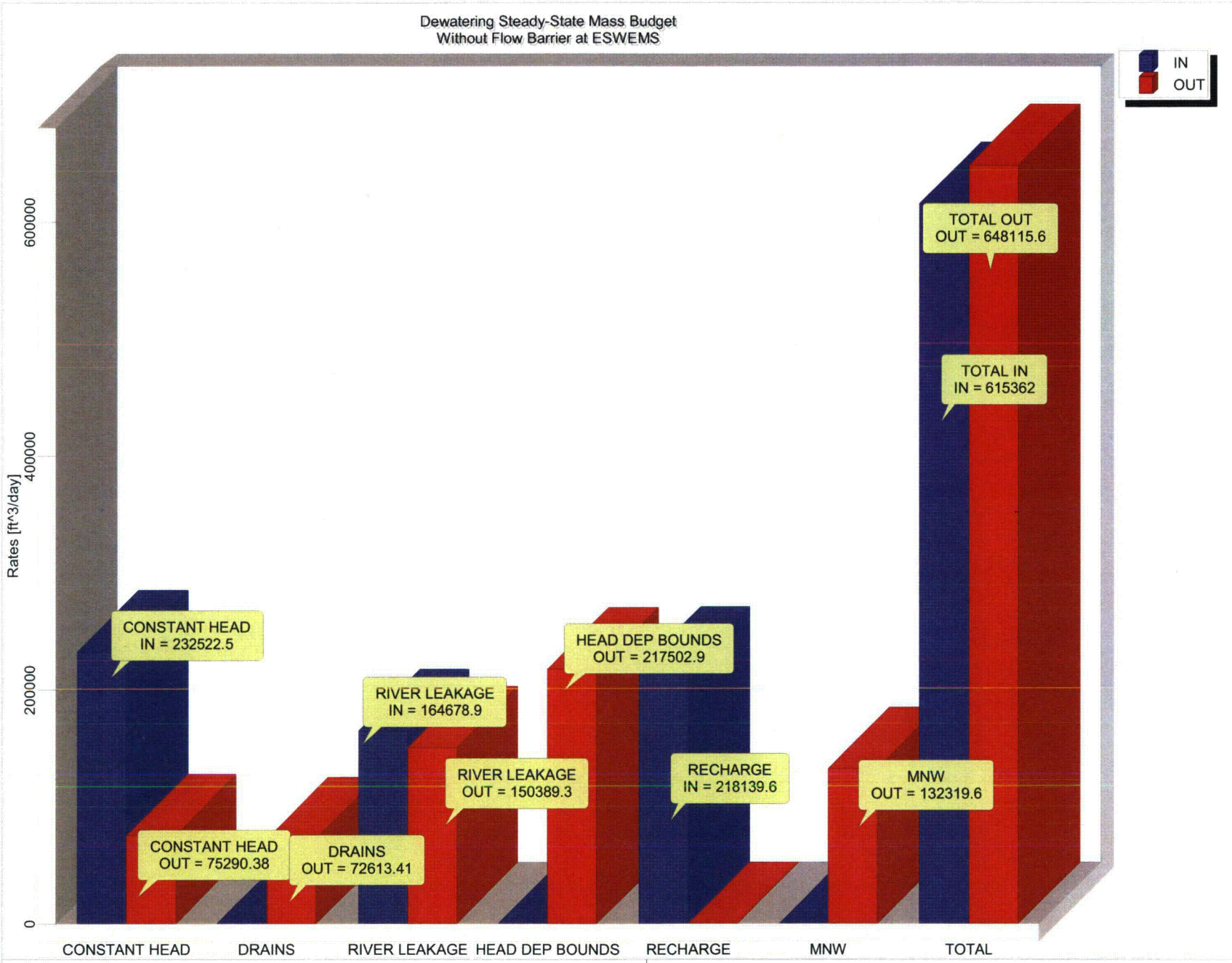
APPENDIX C

Baseline and Dewatering Flow Model Mass Budgets



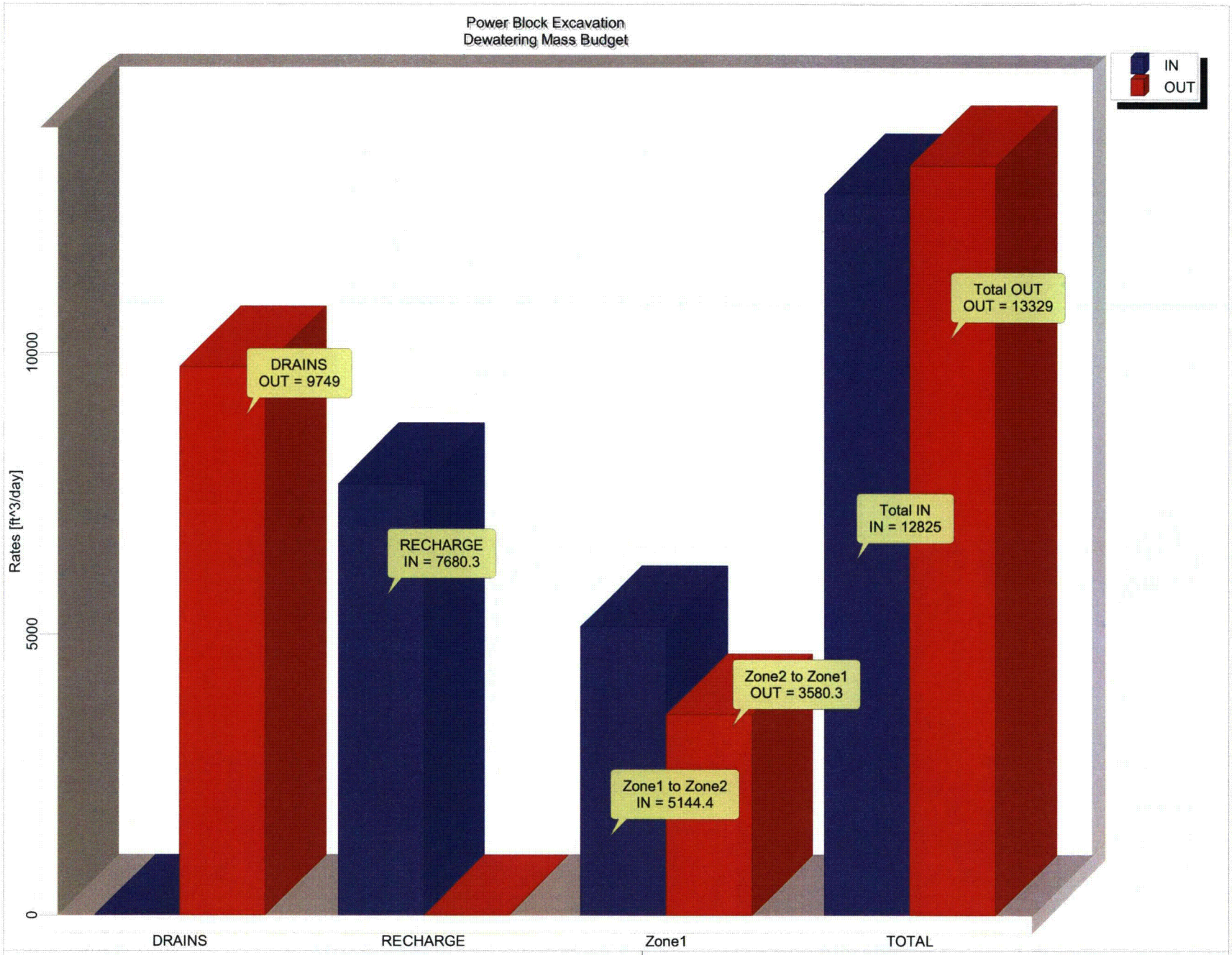
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/11/2010

Baseline Mass Budget



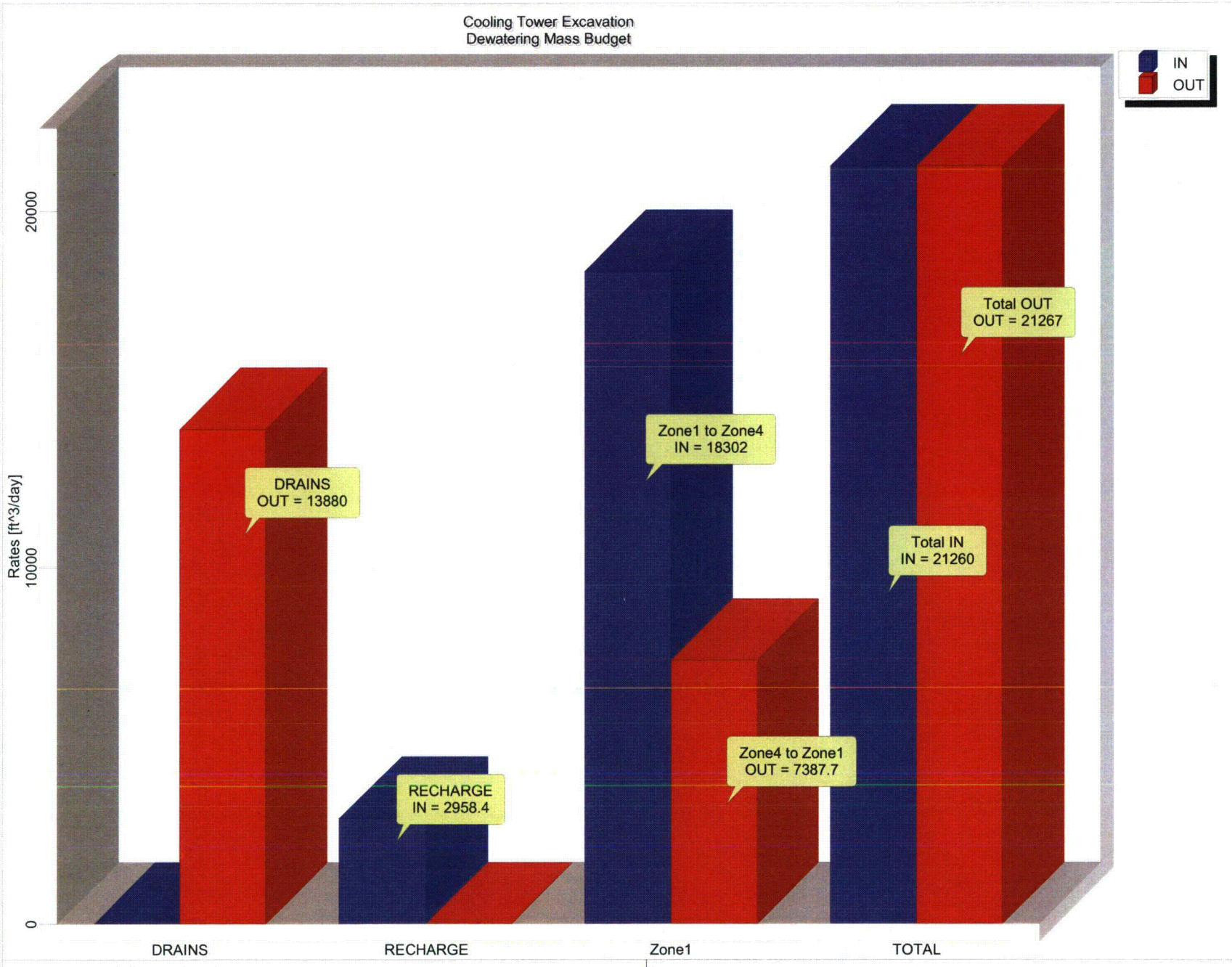
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/18/2010

Dewatering Mass Budget
Without Flow Barrier at ESWEMS



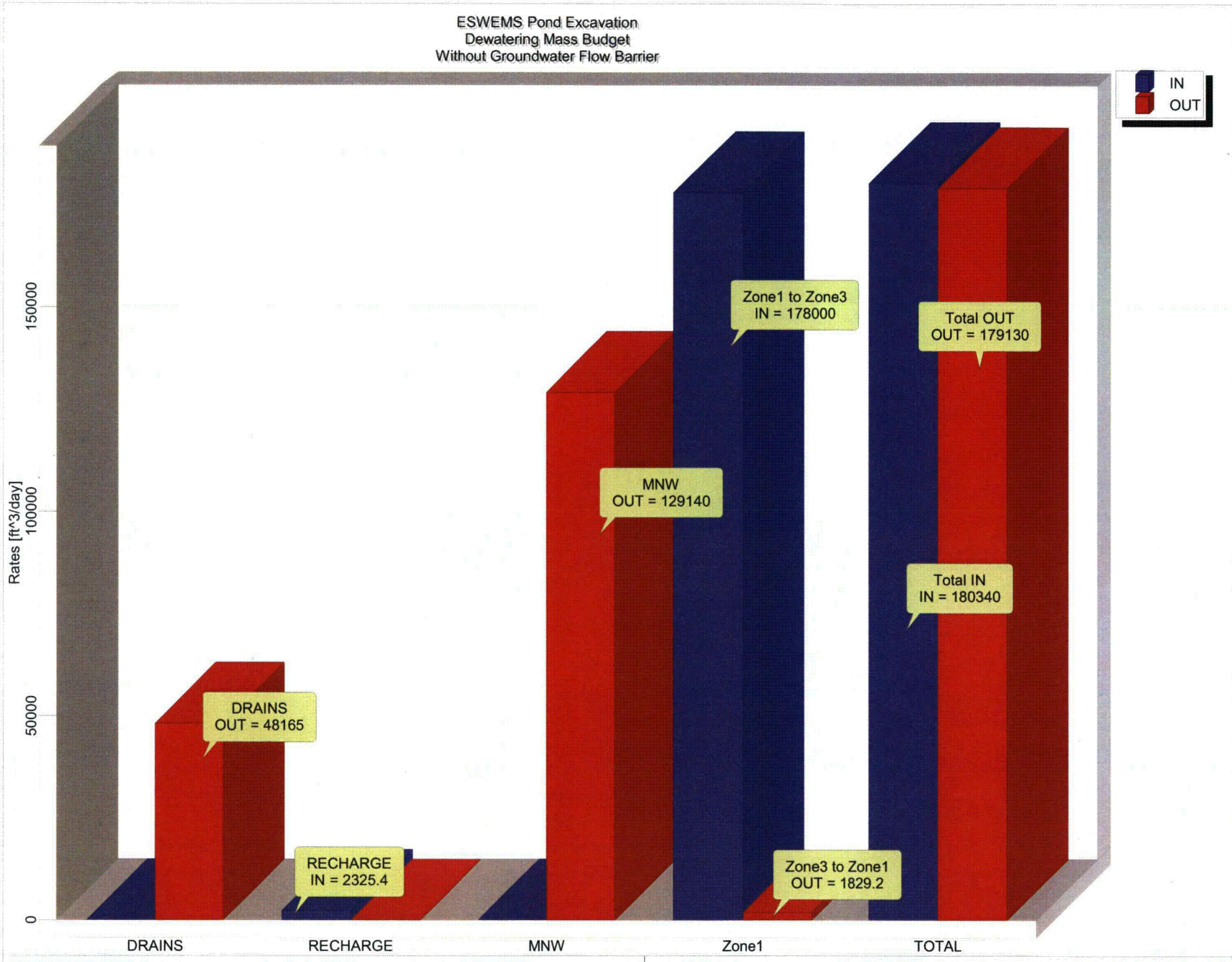
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/18/2010

Power Block Excavation
Dewatering Mass Budget



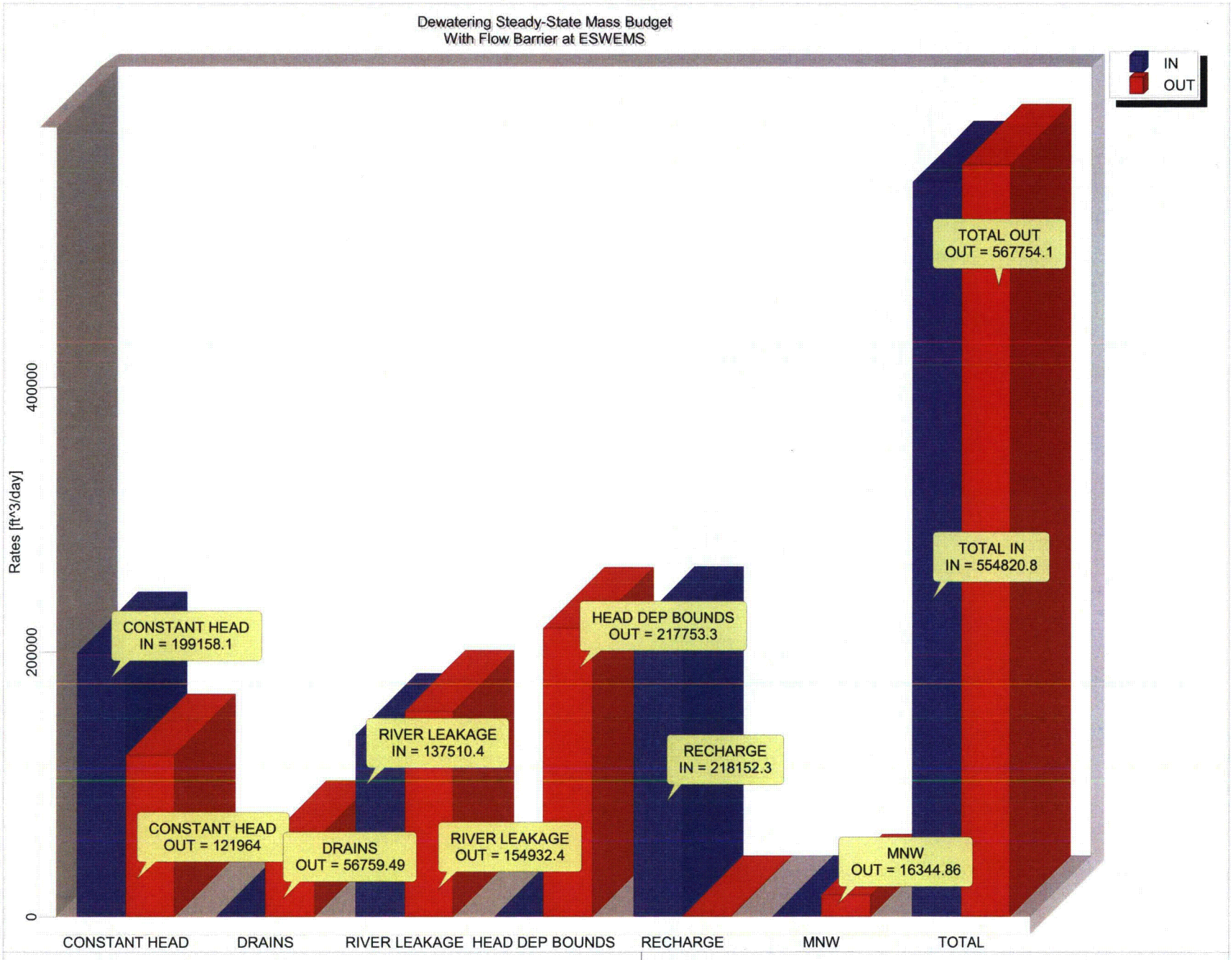
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/18/2010

Cooling Tower Excavation
Dewatering Mass Budget



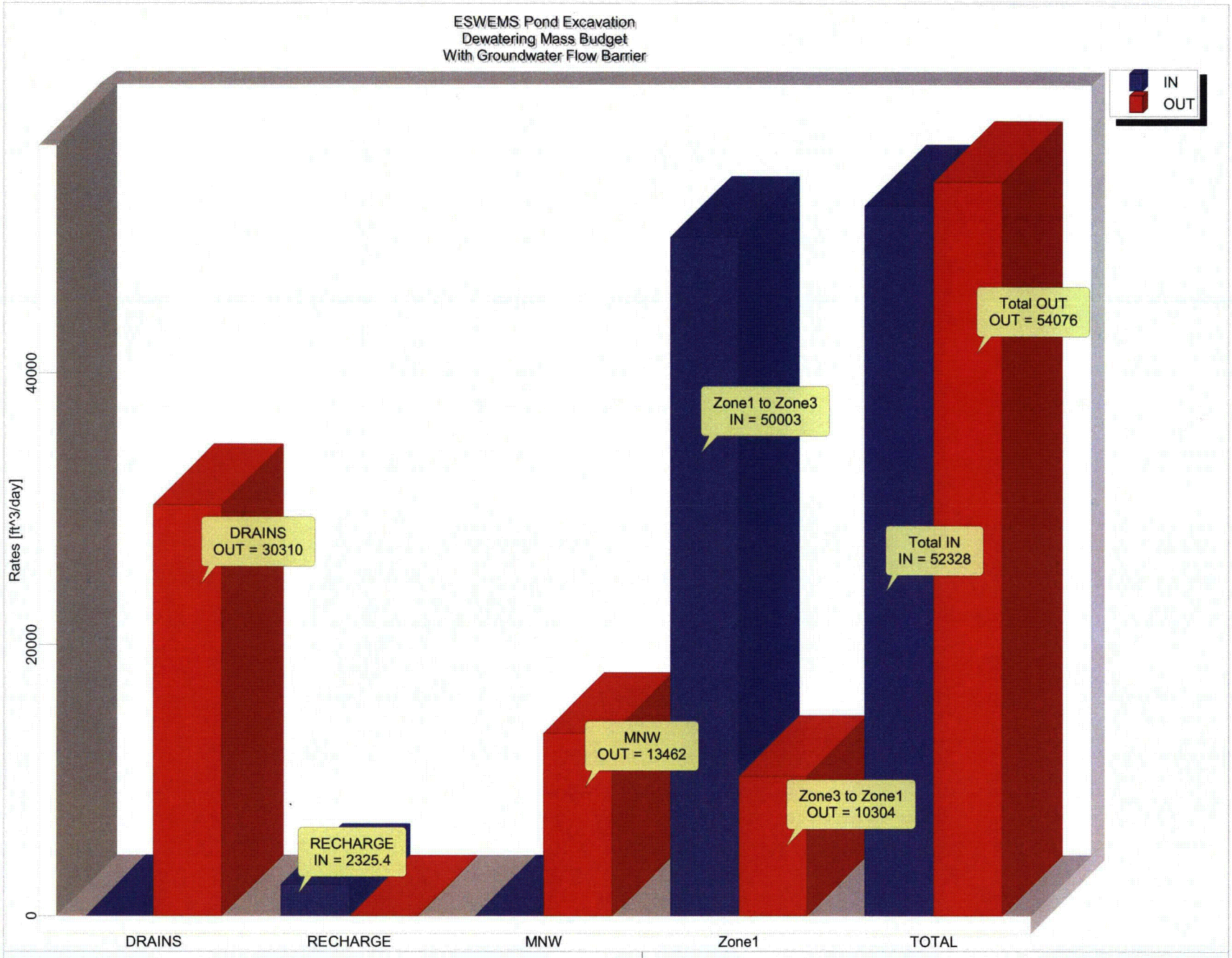
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/18/2010

ESWEMS Pond Excavation
Dewatering Mass Budget
Without Groundwater Flow Barrier



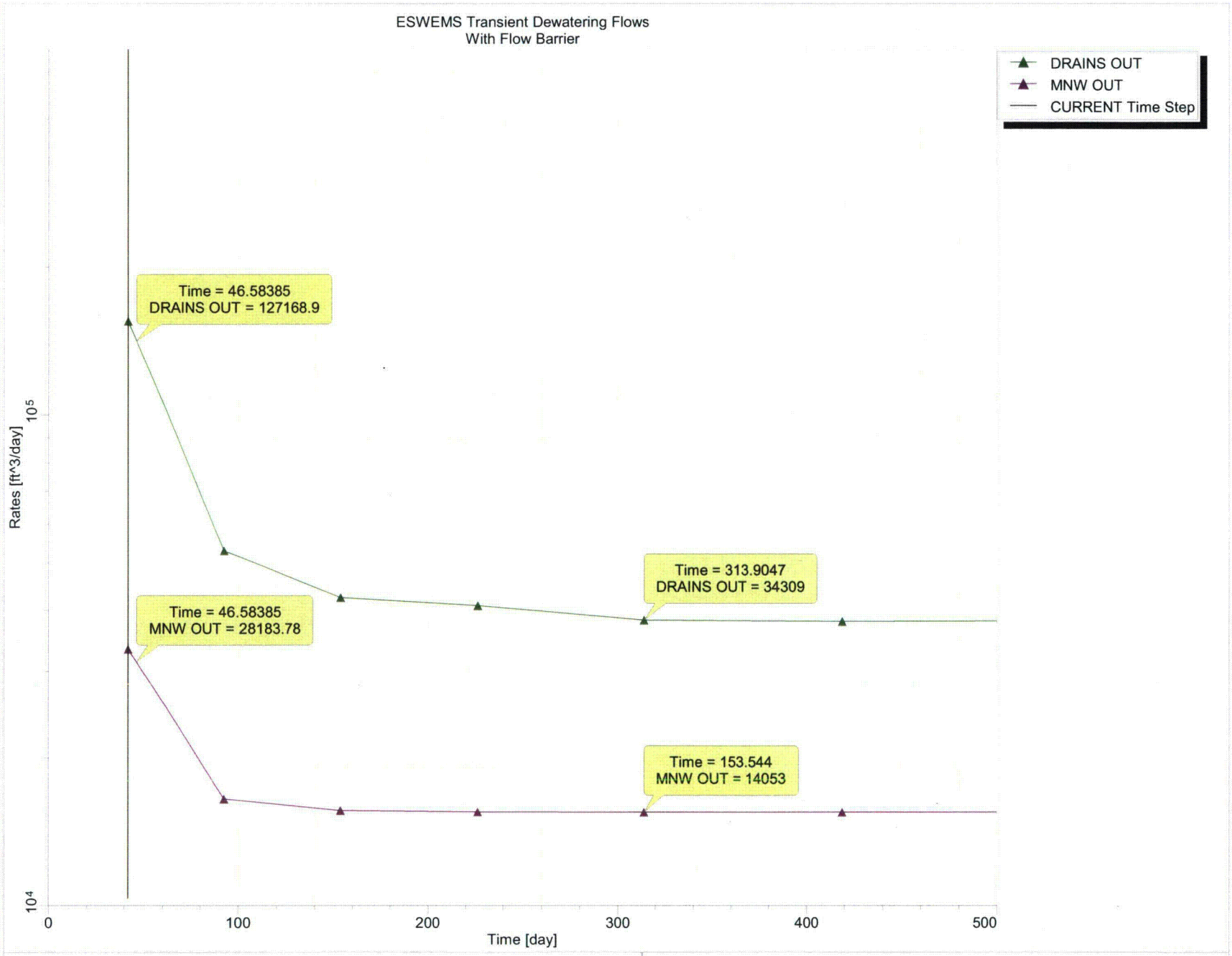
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/18/2010

Dewatering Mass Budget
With Flow Barrier at ESWEMS



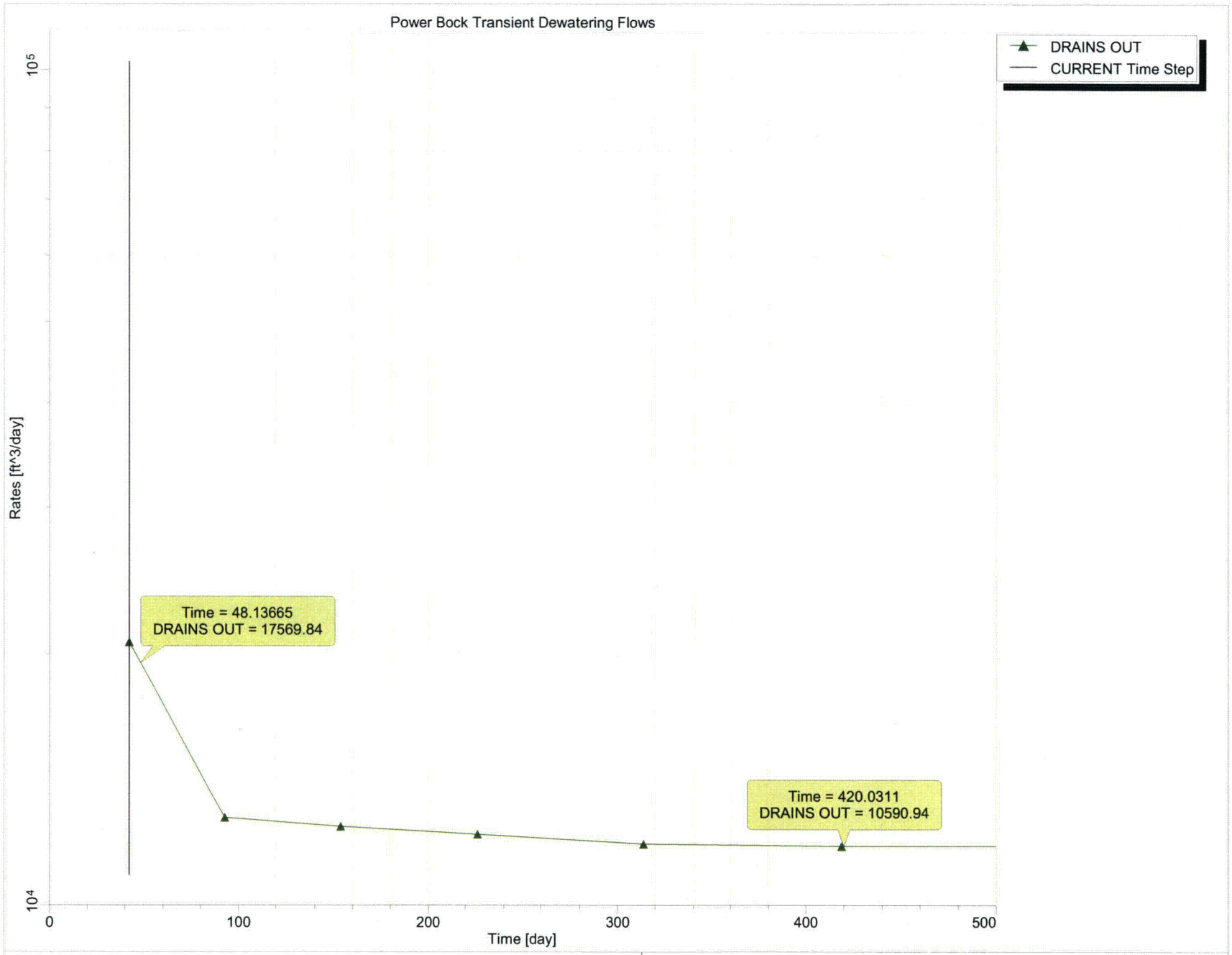
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/18/2010

ESWEMS Pond Excavation
Dewatering Mass Budget
With Groundwater Flow Barrier



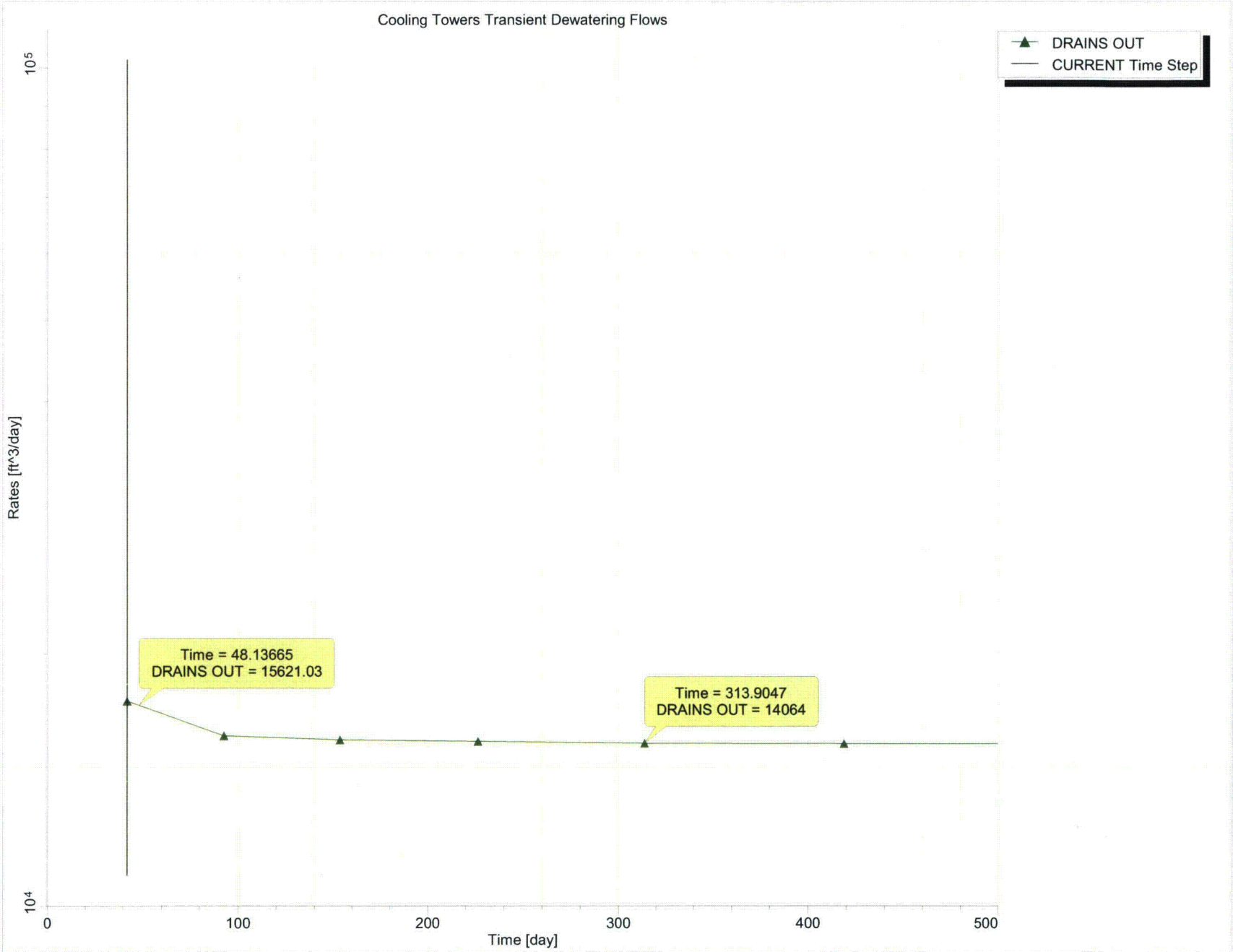
BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/20/2010

ESWEMS Transient Dewatering Flows
Dewatering Mass Budget
With Groundwater Flow Barrier



BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/20/2010

Power BlockTransient Dewatering Flows
Dewatering Mass Budget
With Groundwater Flow Barrier



BBNPP Non-Safety Related
Mass Balance: MODFLOW
Date: 9/20/2010

Power BlockTransient Dewatering Flows
Dewatering Mass Budget
With Groundwater Flow Barrier

APPENDIX D

Calculations

DEWATERING WELL HYDRAULICS

Purpose

The purpose of this calculation is to estimate the yield and drawdown curves for typical dewatering wells that might be drilled at the BBNPP facility.

The soil profile in the general area of the BBNPP consists of glacial overburden comprised of silty sand and sand containing large rounded cobbles and boulders. The presence of the boulders increases with depth.

In the vicinity of the ESWEMS pond,

- The water table surface elevation is assumed equal to 666 ft (NAVD88) as listed for the MW302-series observation wells (Table 1).
- The shale/siltstone bedrock surface corresponding approximately to the bottom of the excavation ranges from approximately 610 ft to 640 ft (NAVD88) (Reference 5).

From this information two representative cases are suggested, the first representing a maximum saturated thickness of overburden equal to approximately 56 ft; and the second representing a minimum saturated thickness equal to 26 feet. Two similar cases were selected as 56 ft and 27.5 ft during 2008 and are retained in this current calculation.

Assumptions

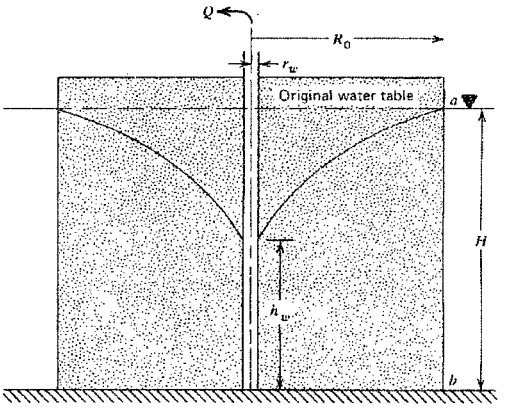
The following assumptions are made:

- The glacial overburden aquifer is homogeneous, isotropic, and unconfined.
- All groundwater flow is horizontal through the overburden aquifer, and there is no leakage from the shale below.
- The coefficient of hydraulic conductivity for the glacial overburden aquifer is $K = 5.9 \times 10^{-2}$ cm/s based on geometric mean from pump test (Reference 9), or 590×10^{-4} cm/s, or 0.116 ft/min.
- Dewatering wells will be constructed using 12-in diameter casing and wire-wound stainless steel high capacity screen installed in 24-in diameter boreholes backfilled using select filter pack.

- The wells will be pumped such that 10 ft of water will remain at the wells above the base of the aquifer, which is assumed confined below by shale of the Mahantango Formation.
- The wells will have a hydraulic efficiency of 80 percent.

Methods

Steady-state flow to a fully penetrating, frictionless (100 percent efficient) well in an unconfined aquifer is described by the following equation (Reference 6, page 103):



$$Q = \frac{\pi K (H^2 - h_w^2)}{\ln(R_o / r_w)} \qquad \text{Eqn 1}$$

Where:

Q = well yield or pumping rate (ft^3/min)

K = hydraulic conductivity of water bearing formation (ft/min)

H = initial height of water above the shale layer (ft)

h_w = height of water above the shale layer in the well (ft)

R_o = radius of influence of pumping well (ft)

r_w = radius of the pumping well (ft)

And where the radius of influence R_o, in feet, is given by the following relation, where K is in units of 10^{-4} cm/s (Reference 11):

$$R_o = 3(H - h_w)\sqrt{K} \qquad \text{Eqn 2}$$

Once the flow (Q) is known, the height of the phreatic surface at a distance r from the well may be estimated in the case of r greater than $1.5H$ using the following equation (Reference 6, page 103):

$$h = \sqrt{H^2 - \frac{Q}{\pi K}\ln\frac{R_o}{r}} \qquad \text{Eqn 3}$$

Where

h = height of the phreatic surface above the shale layer (ft) at r

r = distance from pumping well (ft)

Results

Case 1: Saturated Thickness = 55 Feet

In this case, H is equal to 55 ft. The height of water remaining at the pumping well h_w is equal to 10 ft. The well radius, r_w, corresponds to the radius of the borehole, which is 1.0 ft. For this case, $R_o = 3(55\,ft - 10\,ft)\sqrt{590} = 3{,}279\,ft$ per Eqn 2, and the well yield is solved for a frictionless (100 percent efficient well) using Eqn 1 as follows:

$$Q = \frac{(3.14)(0.116\,ft/\min)[(55\,ft)^2 - (10\,ft)^2]}{\ln(3{,}279\ ft/1.0\ ft)}$$

$$Q = \frac{1{,}065\,ft^3/\min}{8.10}$$

Q = 131 ft^3/min = 983 gpm (frictionless)

Q = **105 ft^3/min = 786 gpm** (80 percent efficient)

The drawdown curve is obtained by solving Eqn. 3 for selected distances as follows:

For r = 100 ft:

$$h = \sqrt{(55\,ft)^2 - \frac{105\,ft^3/\min}{\pi 0.116\,ft/\min}\ln\frac{3{,}279\,ft}{100\,ft}} = 44.9\,ft$$, and **drawdown** = 55 ft – 44.9ft = **10** ft

For r = 150 ft:

$$h = \sqrt{(55\,ft)^2 - \frac{105\,ft^3/\min}{\pi 0.116\,ft/\min}\ln\frac{3{,}279\,ft}{150\,ft}} = 46.2\,ft$$, and **drawdown** = 55 ft – 46.2ft = **8.8 ft**

For r = 200 ft:

$$h = \sqrt{(55\,ft)^2 - \frac{105\,ft^3/\min}{\pi 0.116\,ft/\min}\ln\frac{3{,}279\,ft}{200\,ft}} = 47.1\,ft$$, and **drawdown** = 55 ft – 47.1ft = **7.9 ft**

For r = 300 ft:

$$h = \sqrt{(55\,ft)^2 - \frac{105\,ft^3/\min}{\pi 0.116\,ft/\min}\ln\frac{3{,}279\,ft}{300\,ft}} = 48.3\,ft$$, and **drawdown** = 55 ft – 48.3t = **6.7 ft**

Case 2: Saturated Thickness = 27.5 Feet

In this case, H is equal to 27.5 ft. The height of water remaining in the pumping well h_w is equal to 10 ft. The well radius, r_w, corresponds to the radius of the borehole, which is 1.0 ft. For this case, $R_o = 3(27.5\,ft - 10\,ft)\sqrt{590} = 1{,}275\,ft$ per Eqn 2, and the well yield is solved using Eqn 1 as follows:

$$Q = \frac{(3.14)(0.116\,ft/\min)[(27.5\,ft)^2 - (10\,ft)^2]}{\ln(1{,}275\ ft/1.0\ ft)}$$

$$Q = \frac{239\,ft^3/\min}{7.15}$$

Q = 33.4 ft^3/min = 250 gpm (frictionless)

Q = **26.7 ft^3/min** = **207 gpm** (80 percent efficient)

The drawdown curve is obtained by solving Eqn. 3 for selected distances as follows:

For r = 100 ft:

$$h = \sqrt{(27.5ft)^2 - \frac{26.7ft^3/\min}{\pi 0.116ft/\min}\ln\frac{1{,}275ft}{100ft}} = 23.9ft$$, and **drawdown** = 27.5 ft – 23.9ft = **3.6** ft

For r = 150 ft:

$$h = \sqrt{(27.5ft)^2 - \frac{26.7ft^3/\min}{\pi 0.116ft/\min}\ln\frac{1{,}275ft}{150ft}} = 24.5ft$$, and **drawdown** = 27.5 ft – 24.5ft = **3.0 ft**

For r = 200 ft:

$$h = \sqrt{(27.5ft)^2 - \frac{26.7ft^3/\min}{\pi 0.116ft/\min}\ln\frac{1{,}275ft}{200ft}} = 24.9ft$$, and **drawdown** = 27.5 ft – 24.9ft = **2.6 ft**

For r = 300 ft:

$$h = \sqrt{(27.5ft)^2 - \frac{26.7ft^3/\min}{\pi 0.116ft/\min}\ln\frac{1{,}275ft}{300ft}} = 25.5ft$$, and **drawdown** = 27.5 ft – 25.5ft = **2.0 ft**

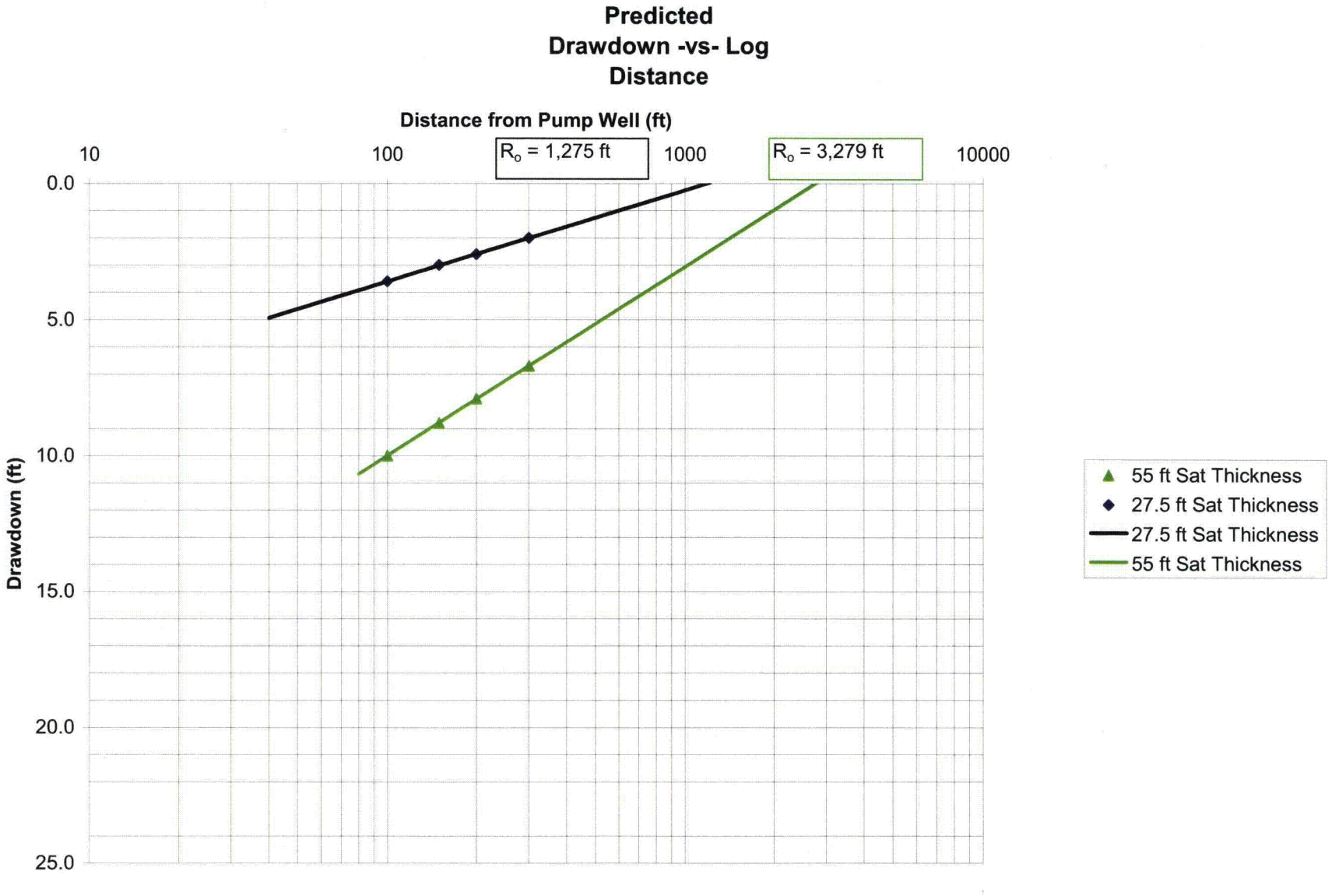
References Cited

5. Paul C. Rizzo Associates, Inc., Response to RFI SL-BBNPP-149, Approved for Use by Unistar September 13, 2010 (Excavation Plans).

6. Powers, J.P. 1981. Construction Dewatering – A Guide to Theory and Practice. John Wiley & Sons, Inc.

9. BBNPP, Final Safety Analysis Report, Section 2.4.12 – Groundwater, Rev. 2.

11. Departments of the Army, Navy, and Air Force. 1983. *Dewatering and Groundwater Control, Army TM 5-818-5, Navy NAVFAC No. P-418, Air Force AFM 88-5, Chap 6.* November.


Predicted
Drawdown -vs- Log
Distance
Distance from Pump Well (ft)
10
100
1000
10000
R_o = 1,275 ft
R_o = 3,279 ft
0.0
5.0
10.0
15.0
20.0
25.0
Drawdown (ft)
55 ft Sat Thickness
27.5 ft Sat Thickness
27.5 ft Sat Thickness
55 ft Sat Thickness

FLUX THROUGH FLOW BARRIER

Purpose

The purpose of this calculation is to estimate inward groundwater flux that might occur across a flow barrier such as a soil-bentonite (S-B) slurry wall if it is used to help control groundwater during temporary construction dewatering. Inward flux is estimated across continuous portions of the slurry wall separately from flux that might occur across installation defects or gaps that might occur during construction.

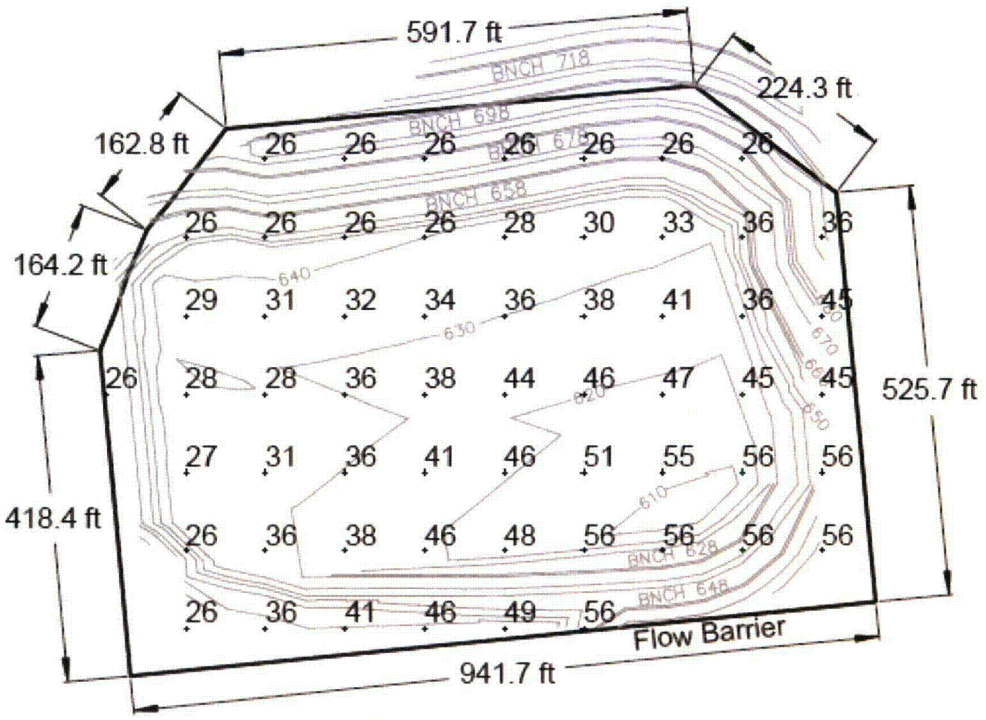
Assumptions

The following assumptions are made:

- The flow barrier will be 3 ft thick (conceptual design criterion).
- The flow barrier will be designed for a hydraulic conductivity of 1×10^{-7} cm/s (conceptual design criterion); however, it is conservatively assumed that a higher hydraulic conductivity of 1×10^{-6} cm/s will be achieved in-situ, or 1.9×10^{-6} ft/min.
- The flow barrier has a total length of approximately 3,028 ft, and a wetted exterior area of approximately 112,000 ft^2, indicating a mean wetted exterior height of 112,000 ft^2 / 3,028 ft = 37.0 ft (see diagram on following page).
- An average of about 10 ft of head is expected to remain at the interior base of the slurry wall during dewatering (indicated by groundwater flow model "*BBNPPFlowBarrier1.vmf*" provided in Appendix B).
- The flow barrier may be completed with gaps such that it will be absent over 1 percent of its designed extent. The hydraulic conductivity of the material in the gaps will be 5.9×10^{-2} cm/s, or 0.116 ft/min, consistent with the material comprising the overburden aquifer (Reference 9).

ESWEMS Flow Barrier Alignment

The alignment and other aspects of the flow barrier will be as shown below:

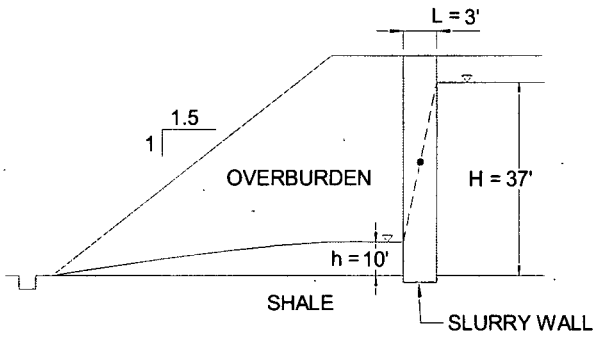


High Water Table El. 666 FT
Base El. Varies from El. 610 FT to 640 FT

Barrier Alignment Length = 3,028 LF
Barrier Enclosed Area = 607,739 SF
Mean Depth of Saturation = 37 FT
Volume of Saturation = 22,500,000 CF
Wetted Vertical Surface of Flow Barrier = 112,000 SF

Methods

Flux across the intact portions and across gaps in the flow barrier may be estimated using Darcy's law:



$q = KiA$ (Darcy's law)

Where:

q = flux (ft^3/min)

K = hydraulic conductivity = (ft/min)

i = gradient = (ft/ft)

A = Area across which flux will occur (ft^2)

Results

FluxThrough Continuous Portions of the Flow Barrier:

Because the gradient through the wall induces flux only through the lower one-half at the vertical center line between H and h, the area A is equal to ½ of the total area of the flow barrier as indicated below:

$$q = KiA = K((H-h)/L)(A)$$

$$q = (1.9x10^{-6}\, ft/\min)((37\, ft - 10\, ft)/3\, ft)\left[\frac{112{,}000\, ft^2}{2}\right]$$

q = 0.96 ft^3/min = 7.2 gpm

Flux Through Gaps in the Flow Barrier:

Because the area in this case only represents 1 percent of the flow barrier, A includes a factor of 0.01 as indicated below. In this case, flow is through the higher conductivity material of the overburden aquifer rather than through the low conductivity slurry wall:

$$q = KiA = K((H-h)/L)(A)$$

$$q = (0.116\, ft/\min)((37\, ft - 10\, ft)/3\, ft)\left[(0.01)\frac{112{,}000\, ft^2}{2}\right]$$

q = 580 ft^3/min = 4,400 gpm

References Cited

9. BBNPP, Final Safety Analysis Report, Section 2.4.12 – Groundwater, Rev 2.

WEAVER BOOS CONSULTANTS

☐ 4085 Meghan Beeler Court, South Bend, IN 46628 (574) 271-3447

File No. 2524-301-01

Made by:	S. Stanford	Date: 09/20/10	Subject	Dewatering Calculations	
Checked by:	M. Maxwell	Date: 09/27/10		Proposed BBNPP Construction	
Approved by:	S. Stanford	Date: 10/15/10			Sheet 1 of 2

DRAINAGE OF FLOW BARRIER INTERIOR

Purpose

The purpose of this calculation is to estimate the time needed to remove groundwater stored within the interior of the ESWEMS flow barrier using dewatering wells or similar means.

Assumptions

The following assumptions are made:

- Overburden contained within the flow barrier is characterized by a median specific yield S_y equal to 0.322 (Reference 9).
- The flow barrier encloses approximately 22.5 million ft^3 of saturated soil, V_s (see "Flux Through Flow Barrier", also provided).
- Groundwater will be pumped at a rate equal to 1.3 ft^3/s, or 80 ft^3/min, or 600 gpm.
- Flux that might develop across the flow barrier as a result of interior drawdown is neglected.
- Up-flow of groundwater from the shale beneath the enclosed volume at approximately 160 gpm (ESWEMS Pond Excavation Dewatering Mass Budget = 30,310 ft^3/day) when dewatering is at steady state is assumed to continuously enter the excavation beginning on the first day. This reduces the net withdrawal to 440 gpm. Discharge, Q, is thus 440 gpm (59 ft^3/min).

Method

The time required to drain the groundwater stored within the flow barrier given the assumptions above is equal to the total volume of stored water divided by the rate of removal:

$$t = \frac{V_w}{Q}$$

Where:

t = time (min)

V_w = volume of water stored (ft^3)

Q = total pumping rate (ft^3/min)

And where the total volume of water in storage, $V_w = (V_s)(S_y)$. Time is solved as follows:

$$t = \frac{(V_s)(S_y)}{Q} = \frac{(22{,}500{,}000\,ft^3)(0.322)}{59\,ft^3/\min}$$

$$t = 123{,}000 \text{ min}$$

$$\boldsymbol{t = 85 \text{ days}}$$

The volume of groundwater removed from inside the flow barrier during the transient phase of dewatering is the sum of water removed from storage and the continual inflow. The quantity to be removed from storage is (22,500,000ft^3)(0.322) = 7.25 million ft^3. The quantity of the inflow over 85 days is (30,310 ft^3/day)(85 days) = 2.58 million ft^3. The sum is 7.25 million ft^3 + 2.58 million ft^3 = 9.83 million ft^3 = 226 acre-ft.

References Cited

9. BBNPP, Final Safety Analysis Report, Section 2.4.12 – Groundwater, Rev.2.

APPENDIX E

Phase 1 Construction Dewatering Evaluation
Comparing Calibration of 3-Month Data with Calibration to
12-Month Data

WEAVER
BOOS
CONSULTANTS

October 10, 2011
Project No. 2524301-01-03

Mr. Robert A. Hameetman
Sargent & Lundy – Mailcode 23Q17
55 E. Monroe Street
Chicago, IL 60603

RE: **Non-Safety Related**
Phase 1 Construction Dewatering Evaluation
Proposed Bell Bend Nuclear Power Plant
Berwick, Pennsylvania
Specification No. B-4402

Dear Mr. Hameetman:

Weaver Boos Consultants North Central, LLC (Weaver Boos) has completed the above referenced evaluation and herewith provides our written Phase 1 report as authorized by Sargent & Lundy L.L.C. (S&L) Purchase Order No. 28917 under S&L Specification B-4402. It is the opinion of Weaver Boos that calculations we provided in our October 2010 report titled: *Evaluation of Temporary Construction Dewatering Strategies Proposed Bell Bend Nuclear Power Plant Berwick, Pennsylvania* based on the then incomplete water level measurement data remain valid after review of the now complete 12-month groundwater level monitoring record. The following report provides the data and calculations supporting our opinion.

BACKGROUND INFORMATION AND PURPOSE

Temporary dewatering needs for controlling groundwater during excavation required for the construction of the proposed Bell Bend Nuclear Power Plant (BBNPP) were previously evaluated in Weaver Boos' October 20, 2010 report. Our October 2010 evaluation was intended to calculate groundwater flows and temporary construction dewatering needs during times when groundwater levels and dewatering system yields are high. Groundwater level calibration targets were identified based on review of the then available water level data collected between January 2008 and July 2010 while accounting for the installation of several new groundwater monitoring wells between 2008 and 2010. Conservative groundwater calibration target elevations were calculated in several steps summarized herein and more fully explained in our 2010 report. Firstly, 2.0 ft was added to the highest groundwater elevations measured during the data

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collection period. The highest measured values were during March 2008, when groundwater levels are typically at their highest mean monthly levels in the eastern United States[1]. Secondly, target levels were calculated for monitoring wells that were not yet in the ground by first correcting their levels to those expected to have been measured during March 2008 and then adding 2.0 ft to account for future fluctuations. The calibration target monitoring wells, their coordinate locations, and resulting calibration target values are listed on **Table 1**.

The new hydrogeologic data that S&L requested Weaver Boos to evaluate includes monthly groundwater levels measurements taken in monitoring wells and piezometers during August, September, October, November, and December 2010 and January, February, March, and April, 2011, thus completing a 12-month record for the initial wells and the wells installed to evaluate the new plant location. The purpose of this report is to provide our assessment of the current site design and its relationship with the physical setting and evaluate whether the previous conceptual dewatering system documented in Weaver Boos Consultants North Central, LLC report titled: *Evaluation of Temporary Construction Dewatering Strategies Proposed Bell Bend Nuclear Power Plant Berwick, Pennsylvania* remains valid, or if modifications to the model/design are required based on the groundwater data obtained after the 2010 report was prepared.

DATA INPUTS

Data and information used in this evaluation include the following documents provided to Weaver Boos or previously developed by Weaver Boos:

Data and Drawings Considered in this Evaluation

Document ID	Revision Number	Revision Date	Contents
Exhibit 01 (S&L)	1	8/22/2011	Conceptual Plant Area Grading Plan for Dewatering Study
Response to RFI Number SL-BBNPP-153	0	5/25/2011	Twelve Month Monitoring Well Test Data with Aquifer Test Results, Geologic Cross Section and Boring Location Diagram

1 - Anderson, M. P., and W.W. Woessner, 1992. *Applied Groundwater Modeling Simulation of Flow and Advective Transport*. Academic Press, Inc., San Diego, CA 92101. 381 p.

Document ID	Revision Number	Revision Date	Contents
FSAR Section 11F	0	-	Final Boring Logs (Initial Location)
Response to RFI Number SL-BBNPP-132 0	0	7/28/2011	Final Boring Logs (New Location)
Weaver Boos Consultants North Central LLC Report for Project No. 2524301-02	1	10/20/2010	Evaluation of Temporary Construction Dewatering Strategies Proposed Bell Bend Nuclear Power Plant Berwick, Pennsylvania
Response to RFI Number SL-BBNPP-201	0	-	Final Excavation and fill plans for Plant Area, ESWEMS Pond, and Cooling Tower
Response to RFI Number SL-BBNPP-211	0	-	Final Excavation and fill plans for Pipeline from ESWEMS Pond to Plant

METHOD OF EVALUATION

The first element of this evaluation was to review the above-listed data inputs to identify potentially significant differences from the inputs used in our 2010 evaluation. We identified no changes to the proposed facility design with potential for significantly altering the scope of temporary construction dewatering from that which we described in our 2010 report.

The second element of this evaluation was to review and identify the highest groundwater elevations measured in the 46 calibration target monitoring wells and piezometers during the recently completed 12-month monitoring period as described in the above referenced Response to RFI Number SL-BBNPP-153. The highest measured water levels are those that are listed in the fifth column of the attached **Table 1**. The difference between the flow model calibration values and the highest measured groundwater levels was then computed as listed under the sixth column of **Table 1**. The positive differences show that the corresponding calibration target elevations remain above the highest measured values in 27 of the 46 calibration target wells and thus conservatively represent times when groundwater levels are high. The negative differences show that the corresponding calibration target elevations are less than the highest measured groundwater level elevations in 19 of the 46 calibration target wells and do not fully capture the uppermost range of groundwater head levels observed during the 12-month monitoring period. The negative differences calculated for these wells range from -0.2 ft to -5.4 ft. Although the

majority of the calibration targets were well chosen to represent the upper range of groundwater levels measured at the site, some potentially significant differences are indicated in a few wells such as MW303A, MW310B, MW404, MW407, MW307B, and MW310C, where the observed maximum levels are more than 2 ft higher than their respective calibration targets.

In order to assess the significance of these measurements, Weaver Boos inputted the 12 month maximum water level elevations measured in the calibration target wells to the baseline groundwater flow model and recalculated the calibration statistics using the new data as a complete set of calibration targets. Our evaluation of the model calibration using the old and new data includes the statistics, scatter plots, and residual maps as previously provided in our October 2010 report.

RESULTS

The baseline groundwater flow model calibration results from our 2010 evaluation report are reproduced in **Appendix A**. The baseline groundwater flow model calibration results for the new calibration targets identified from the complete 12-month water level database are provided in **Appendix B**. The old and new calibration statistics computed for the entire set of 46 calibration wells are collected and compared with each other as listed on **Table 2**. The calibration of the groundwater flow model using the highest measured groundwater levels is compared with the calibration of the flow model using the previously identified target elevations as follows:

1. The first listed statistics are the maximum and minimum residual values, measured in feet. The residual at each calibration target well is defined as the difference between the simulated groundwater level and the groundwater level observed at that location. The maximum residual differences for the old and new groundwater calibration target elevations are nearly equal (-30.397 ft vs. -30.797 ft, respectively). The minimum residual differences for the old and new calibration targets both remain close to zero (-0.013 ft and -0.129 ft, respectively). The differences between the minimum and maximum, which represents the magnitude of the residual variation among the calibration wells, also remain nearly equal at -30.384 ft and -30.668 ft, respectively. The relative percent difference (RPD) between the two ranges is computed as 0.93 percent.

2. The residual mean without regard for sign is similar for the old and new calibration target values (-4.895 ft and -4.935 ft, respectively). The RPD between the old and new residual mean is 0.81 percent.

3. The absolute residual mean with regard for sign is similar for the old and new calibration target values (7.937 ft and 8.612 ft, respectively). The RPD between the old and new absolute residual mean is 8.16 percent.

4. The standard error estimate of the residuals is similar for the old and new calibration target values (1.485 ft and 1.614 ft, respectively. The RPD between the old and new standard error of the estimate is 8.33 percent.

5. The root mean squared (RMS) of the residuals is similar for the old and new calibration target values (11.101 ft and 11.899 ft, respectively). The RPD between the old and new RMS of the residuals is 6.94 percent.

6. The correlation coefficient of the simulated versus the observed groundwater levels is similar for the old and new calibration target values (0.903 and 0.889 respectively). The RPD between the old and new correlation coefficients is 1.56 percent.

7. The normalized RMS of the residuals for the old calibration targets is 12.9 percent. The normalized RMS of the residuals for the new calibration targets is 14.51 percent. The difference is 1.61 percentage points. The RPD for this statistic is not computed because it is already a percentage normalized from the RMS of the residuals for which the RPD was previously computed at 6.94 percent.

8. Provided in the appendices are Calibration Residual Maps representing the spatial distribution of residuals for the old and new calibration target values. The Calibration Residual Map for the old calibration targets is provided in **Appendix A**. A Calibration Residual Map for the new calibration targets is provided as shown in **Appendix B**. Both maps indicate a similar spatial distribution of residuals where heads (or groundwater levels) are generally under-predicted on the upland that will be occupied by the power block and generally over-predicted in the lowland area where the ESWEMS Pond will be built as previously described in our 2010 report.

FINDINGS AND CONCLUSIONS

The adequacy of the 2010 temporary construction dewatering plans is evaluated by comparing the calibration of the digital flow model and manual calculations with the results of the groundwater investigations and by professional judgment of groundwater, soil, and bedrock conditions at the site[2]. Weaver Boos is unaware of specific numeric standards or acceptable statistical differences published in the professional groundwater literature that may be directly applied to this evaluation. In its Standard Guide (ASTM Guide) for Comparing Ground-Water Flow Model Simulations to Site-Specific Information[3], ASTM International simply states that of two simulations, the one with the maximum and minimum residuals closest to zero has a better degree of correspondence, with regard to this criterion. The ASTM Guide similarly states that smaller values of the standard deviation (standard error), and other second-order statistics indicate better degrees of correspondence.

In the absence of generally accepted numerical criteria for the residual statistics, Weaver Boos concludes that it is most appropriate to consider the relative percent differences (RPDs) calculated for the statistics as previously discussed in the Results Section and summarized on **Table 2**. It is the opinion of Weaver Boos that the RPDs calculated at less than 10 percent for the corresponding old and new calibration target values demonstrates that there is no significant difference in calibration whether the old or new target values are considered. The calibration of the flow model is therefore equally valid in both instances.

With regard for the spatial distribution of the residuals, we conclude that they are similar, and hence equally valid for either the old or new calibration target values. As stated in our 2010 report, calibration trials using upland recharge as great at 36 in/yr increased the mass budget discrepancy between total inflows and total outflows to excessive levels, yet failed to smooth the spatial distribution of the residuals. Such unrealistic recharge was therefore omitted from the model. More importantly, Weaver Boos notes that the baseline model over-predicts the highest groundwater elevations measured in the thick, permeable outwash deposits of the lowland area where the ESWEMS pond is located. The model therefore remains conservative in this area of the project where the majority of the dewatering system flow will be yielded (230 gallons per

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2 - U.S. NRC Standard Review Plan, Section 2.5.4 Stability of Subsurface Materials and Foundations, Subsection 2.5.4.6 Groundwater Conditions, NUREG-0800, Revision 3 – March 2007.

3 - ASTM International Designation D 5490-93 (Reapproved 2002). ASTM International, 100 Barr Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.

minute [gpm] with a flow barrier). The model is less conservative in the upland where less permeable shale bedrock will be encountered in the power block excavation, where the dewatering system is only calculated to yield approximately 50 gpm in this area. If the actual yield from the power block excavation is 50 percent higher than currently estimated using the model, the flow will increase by only 25 gpm, indicating that the potential effect of the implied calibration variance is small.

QUALIFICATIONS AND LIMITATIONS

Weaver Boos has performed this evaluation of conceptual construction dewatering strategies consistent with the principles of hydrogeology in accordance with the prevailing standards for professionals practicing under similar circumstances. This warranty is in lieu of all other warranties either expressed or implied. Specific additional qualifications and limitations previously stated in our October 20, 2010 report titled: *Evaluation of Temporary Construction Dewatering Strategies Proposed Bell Bend Nuclear Power Plant Berwick, Pennsylvania* remain relevant for this report.

Weaver Boos appreciates this opportunity to be of service. If you should have any questions or comments regarding this report, please do not hesitate to contact our office at 574-271-3447.

Sincerely,

Weaver Boos Consultants North Central, LLC

Steven M. Stanford, LPG
Senior Project Manager

Douglas G. Dorgan, Jr., LPG
Principal

Attachments:

Table 1 – Head Observations Used in Dewatering Evaluation
Table 2 – Original Calibration Statistics Compared with Groundwater Level Maxima Measured in May-April 2011
Appendix A – Baseline Flow Model Calibration Results with Partial Data – 2010
Appendix B – Baseline Flow Model Calibration Results with Full 12 Month Data – 2011

TABLES

TABLE 1
Head Observations Used in Dewatering Evaluation
Proposed BBNPP Facility
Berwick, Pennsylvania

Well ID	Easting (ft)	Northing (ft)	Flow Model Calibration Value (h_1) (ft) (NAVD88)	12 Month Maximum Observed May 2010 - Apr 2011 (h_2) (ft) (NAVD88)	Flow Model Calibration Value less the 12 Month Max[a] ($h_1 - h_2$) (ft)
Overburden Aquifer					
MW301A	2,405,396.73	339,097.64	661.3	660.36	1.0
MW302A1	2,406,939.74	339,410.17	665.9	665.04	0.8
MW302A2	2,406,925.67	339,410.07	665.8	665.01	0.8
MW302A3	2,406,899.92	339,410.16	665.8	664.94	0.8
MW302A4	2,406,939.42	339,495.31	665.9	665.07	0.8
MW303A	2,405,505.31	341,504.72	719.1	721.17	-2.1
MW304A	2,408,455.38	340,228.16	674.2	672.81	1.4
MW305A1	2,407,090.85	341,896.43	710.0	710.33	-0.3
MW305A2	2,407,096.81	341,888.61	709.2	708.89	0.3
MW306A	2,404,351.67	338,899.63	659.1	658.37	0.7
MW308A	2,405,979.80	338,355.50	659.0	658.19	0.8
MW309A	2,408,989.20	338,707.94	672.6	672.31	0.3
MW310A	2,405,156.30	339,453.78	663.1	662.65	0.4
MW410	2,406,412.50	339,662.11	663.6	663.91	-0.3
Shallow Bedrock Aquifer					
MW301B1	2,405,384.28	339,098.94	662.6	662.78	-0.2
MW301B2	2,405,338.53	339,142.99	661.3	660.42	0.9
MW301B3	2,405,288.63	339,069.30	660.6	659.76	0.9
MW301B4	2,405,444.97	338,987.79	661.0	660.01	1.0
MW303B	2,405,493.42	341,504.61	722.3	724.03	-1.8
MW304B	2,408,443.45	340,245.01	673.6	672.29	1.3
MW305B	2,407,108.09	341,880.51	709.1	708.9	0.2
MW309B	2,408,999.09	338,708.71	669.3	667.28	2.1
MW310B	2,405,176.41	339,454.71	668.4	673.84	-5.4
MW311B	2,405,252.94	339,328.29	663.2	662.79	0.4
MW312B	2,405,297.70	338,820.62	660.2	658.35	1.9
MW313B	2,405,815.58	338,927.92	662.0	659.1	2.9
MW313C	2,405,754.79	338,922.54	660.0	658.82	1.2
MW315B	2,406,234.46	340,738.30	721.8	719.78	2.0
MW316B	2,406,433.93	340,298.18	698.7	699.62	-0.9
MW317B	2,406,401.48	339,772.49	664.9	664.06	0.9
MW319B	2,405,528.14	340,239.46	723.7	724.11	-0.4
MW401	2,405,097.68	340,753.25	701.6	702.22	-0.6
MW402	2,405,855.94	340,870.66	725.5	726.4	-0.9
MW403	2,405,542.37	340,579.28	705.2	705.26	-0.1
MW404	2,404,985.30	340,170.50	705.1	709.46	-4.4
MW405	2,404,646.35	339,970.47	685.4	682.99	2.4
MW406	2,404,789.81	339,710.35	674.6	676.33	-1.7
MW407	2,405,144.25	339,784.93	702.2	704.4	-2.2
MW408	2,405,819.88	340,342.30	710.8	712.03	-1.3
MW409	2,405,905.35	339,760.65	701.8	703.3	-1.5
Deep Bedrock Aquifer					
MW302B	2,406,954.17	339,409.88	669.4	667.22	2.2
MW303C	2,405,483.36	341,503.54	706.7	705.22	1.5
MW304C	2,408,449.59	340,236.49	673.1	672.26	0.9
MW306C	2,404,353.48	338,889.03	659.8	659.91	-0.1
MW307B	2,407,096.69	337,632.75	639.5	644.4	-4.9
MW310C	2,405,233.06	339,452.09	680.4	684.53	-4.2

a - Positive results indicate that the 2010 calibration target elevation is above the highest elevation measured at the well and thus conservative in the estimate of dewatering system yields. Negative results indicate that the highest elevation measured at the well is greater than the 2010 calibration target elevation.

TABLE 2
Original Calibration Statistics Compared with
Groundwater Level Maxima Measured in May-April 2011
Proposed BBNPP Facility
Berwick, Pennsylvania

Calibration Statistics	Original Calibration Targets	May-April 2011 Groundwater Level Maxima	Relative Percent Difference (RPD) (%)
Max. Residual (ft):	-30.397	-30.797	---
Min. Residual (ft):	-0.013	-0.129	---
Max. Residual - Min Residual (ft):	-30.384	-30.668	0.93
Residual Mean (ft):	-4.895	-4.935	0.81
Abs. Residual Mean (ft):	7.937	8.612	8.16
Standard Error of the Estimate (ft):	1.485	1.614	8.33
Root Mean Squared (RMS) (ft):	11.101	11.899	6.94
Correlation Coefficient:	0.903	0.889	1.56

Calibration Statistics	Original Calibration Targets	May-April 2011 Groundwater Level Maxima	Difference (Percentage Points)
Normalized RMS (%):	12.90	14.51	1.61

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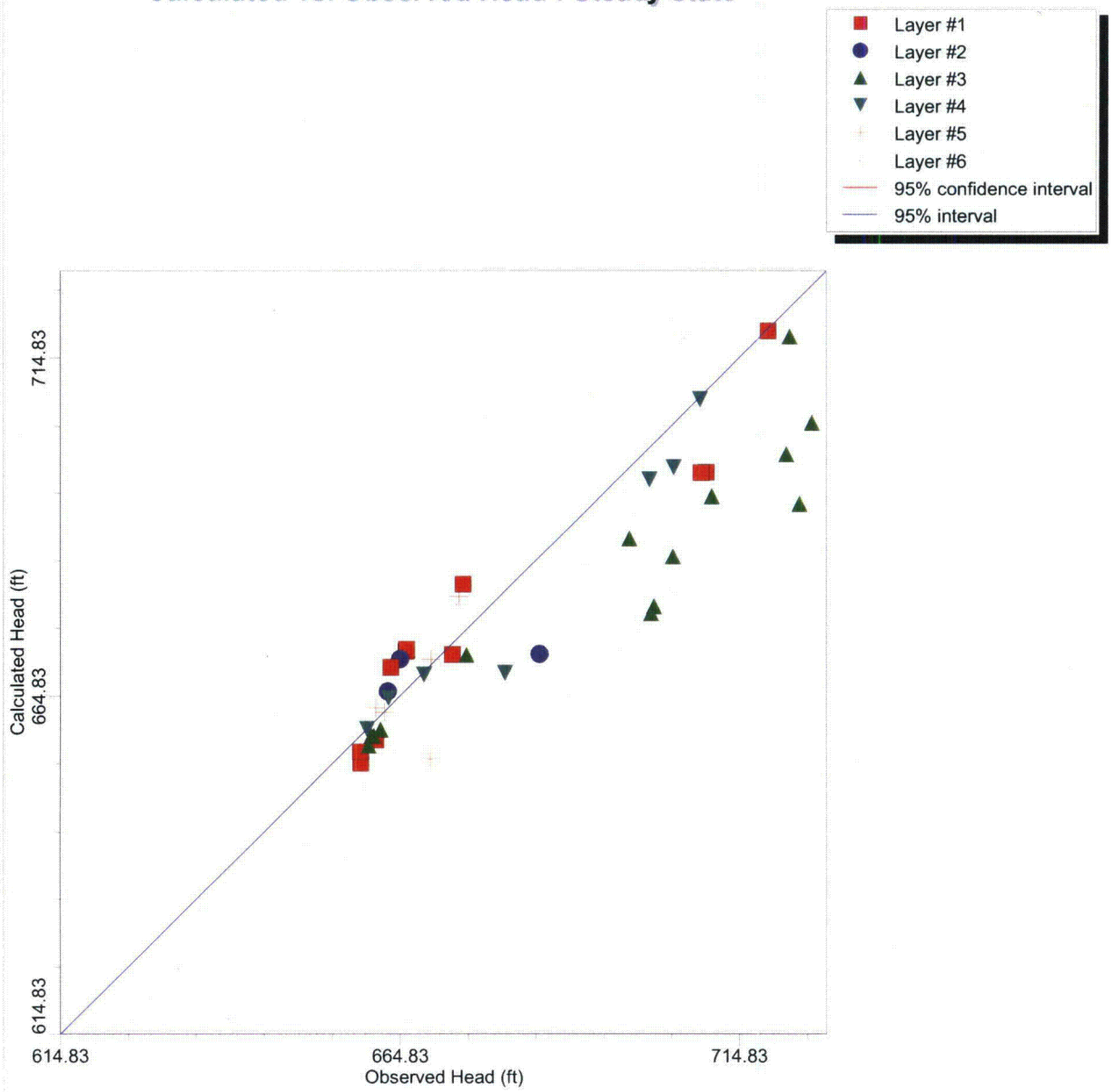
APPENDIX A

Baseline Flow Model Calibration Results with Partial Data – 2010

Calculated vs. Observed Head : Steady state



Max. Residual: -30.397 (ft) at MW319B/1
Min. Residual: -0.013 (ft) at MW313C/1
Residual Mean : -4.895 (ft)
Abs. Residual Mean : 7.937 (ft)

Num. of Data Points : 46
Standard Error of the Estimate : 1.485 (ft)
Root Mean Squared : 11.101 (ft)
Normalized RMS : 12.905 (%)
Correlation Coefficient : 0.903

Baseline Head Calibration, All Layers

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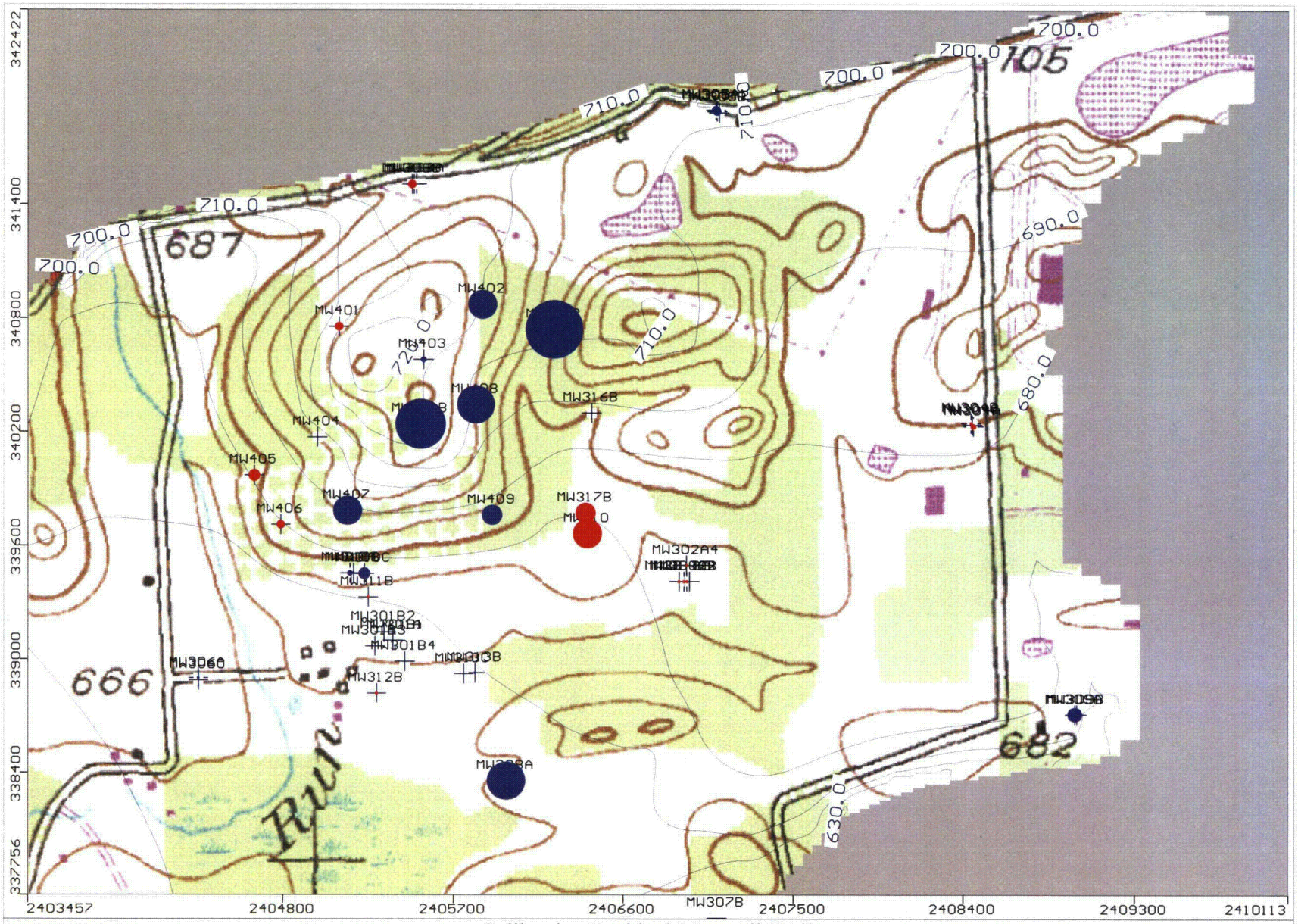
Berwick, Pennsylvania



Calibration Residual Map, All Wells
Red Symbols are Positive Residuals, Blue Symbols are Negative
Head Contours are in Layer 2

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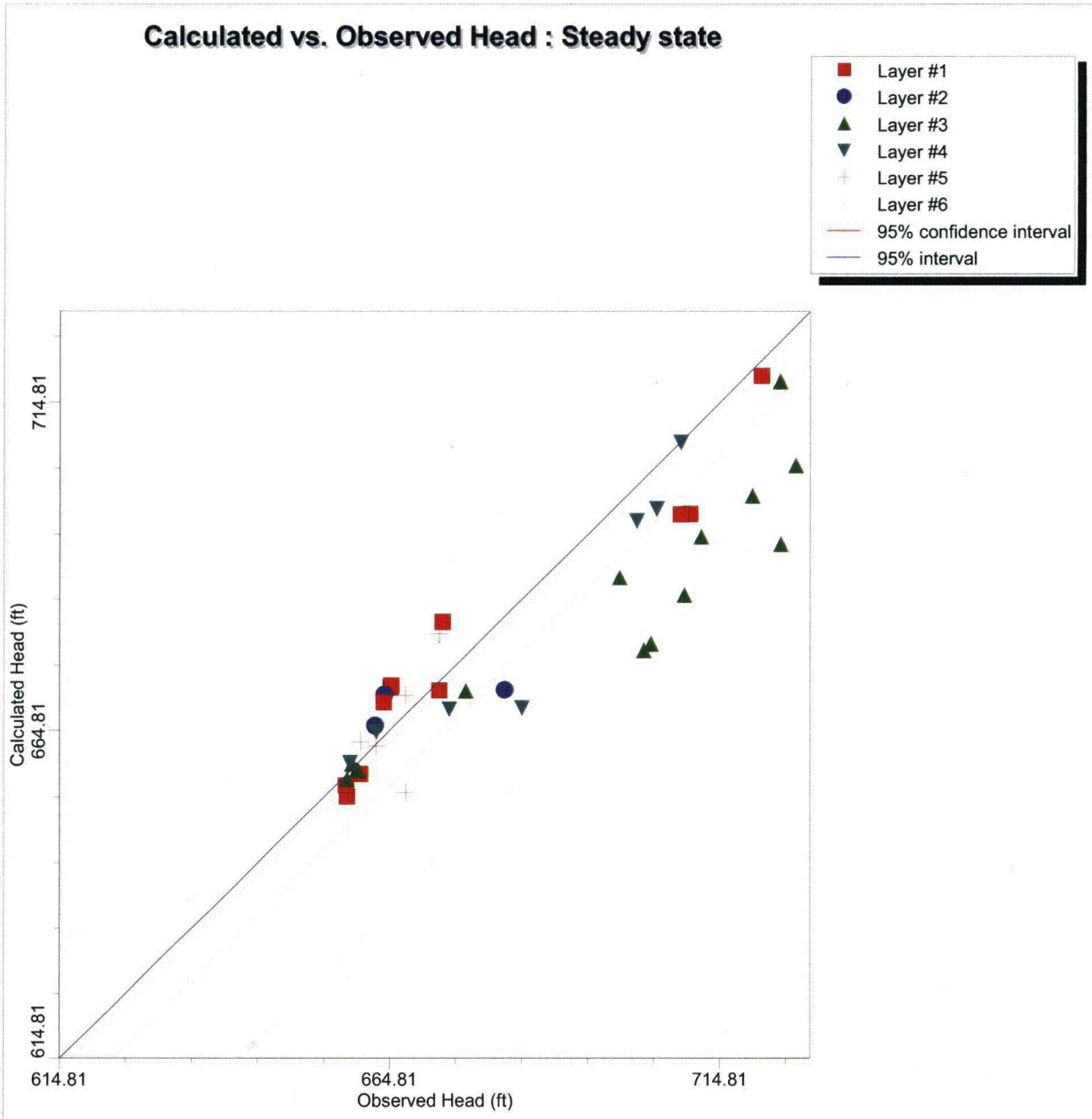
Bell Bend Nuclear Power Plant
Berwick, Pennsylvania

APPENDIX B

Baseline Flow Model Calibration Results with Full 12 Month Data - 2011



Max. Residual: -30.797 (ft) at MW319B/1
Min. Residual: -0.129 (ft) at MW305B/1
Residual Mean : -4.935 (ft)
Abs. Residual Mean : 8.612 (ft)

Num. of Data Points : 46
Standard Error of the Estimate : 1.614 (ft)
Root Mean Squared : 11.899 (ft)
Normalized RMS : 14.511 (%)
Correlation Coefficient : 0.889

Baseline Head Calibration 2011 Full 12 Month Data, All Layers

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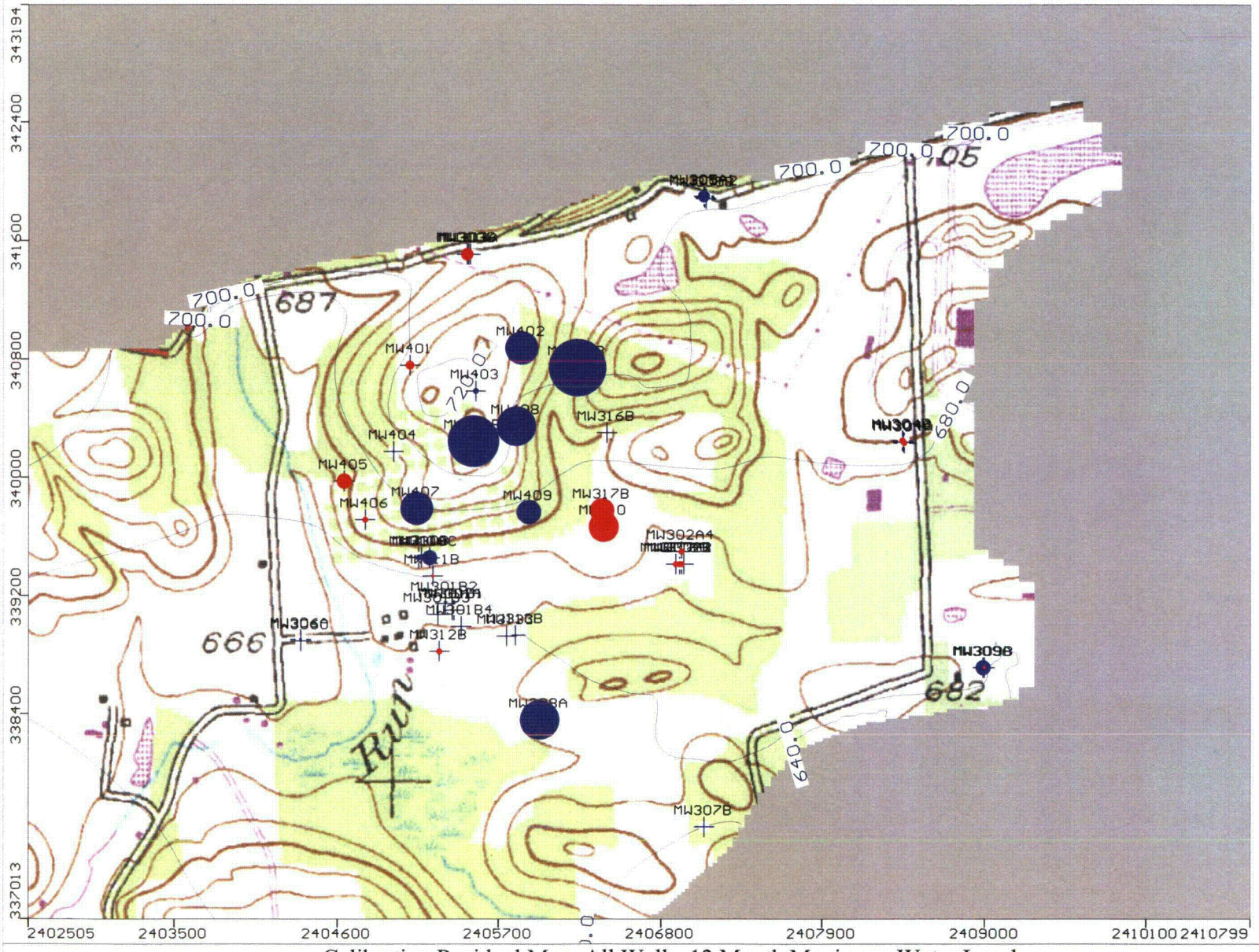
Berwick, Pennsylvania



Calibration Residual Map, All Wells, 12 Month Maximum Water Levels
Red Symbols are Positive Residuals, Blue Symbols are Negative
Head Contours are in Layer 2

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