PRILOG 5

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**               HYDROLOGIC EVALUATION OF LANDFILL PERFORMANCE                  **
**                 HELP MODEL VERSION 3.07 (1 November 1997)                    **
**                   DEVELOPED BY ENVIRONMENTAL LABORATORY                      **
**                     USAE WATERWAYS EXPERIMENT STATION                        **
**              FOR USEPA RISK REDUCTION ENGINEERING LABORATORY                 **
**                                                                              **
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PRECIPITATION DATA FILE:    C:\WHI\VHELP22\data\P3728.VHP\_weather1.dat
TEMPERATURE DATA FILE:      C:\WHI\VHELP22\data\P3728.VHP\_weather2.dat
SOLAR RADIATION DATA FILE:  C:\WHI\VHELP22\data\P3728.VHP\_weather3.dat
EVAPOTRANSPIRATION DATA:    C:\WHI\VHELP22\data\P3728.VHP\_weather4.dat
SOIL AND DESIGN DATA FILE:  C:\WHI\VHELP22\data\P3728.VHP\I_388627.inp
OUTPUT DATA FILE:           C:\WHI\VHELP22\data\P3728.VHP\O_388627.prt


TIME:  12: 9     DATE:   2/10/2006


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TITLE: 1 : 2 – prekriveno izravnavajućim slojem

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     NOTE:  INITIAL MOISTURE CONTENT OF THE LAYERS AND SNOW WATER
               WERE SPECIFIED BY THE USER.


                                    LAYER  1
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                    TYPE 1 - VERTICAL PERCOLATION LAYER
                        MATERIAL TEXTURE NUMBER   6
          THICKNESS                     =    100.00   CM
          POROSITY                      =      0.4530 VOL/VOL
          FIELD CAPACITY                =      0.1900 VOL/VOL
          WILTING POINT                 =      0.0850 VOL/VOL
          INITIAL SOIL WATER CONTENT    =      0.1900 VOL/VOL
          EFFECTIVE SAT. HYD. COND.     =  0.720000000000E-03 CM/SEC
        NOTE:  SATURATED HYDRAULIC CONDUCTIVITY IS MULTIPLIED BY  5.00
                  FOR ROOT CHANNELS IN TOP HALF OF EVAPORATIVE ZONE.
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LAYER 2

TYPE 1 - VERTICAL PERCOLATION LAYER
MATERIAL TEXTURE NUMBER 18

THICKNESS	=	2000.00	CM
POROSITY	=	0.6710	VOL/VOL
FIELD CAPACITY	=	0.2920	VOL/VOL
WILTING POINT	=	0.0770	VOL/VOL
INITIAL SOIL WATER CONTENT	=	0.3100	VOL/VOL
EFFECTIVE SAT. HYD. COND.	=	0.100000224000E-02	CM/SEC

GENERAL DESIGN AND EVAPORATIVE ZONE DATA

SCS RUNOFF CURVE NUMBER	=	87.30	
FRACTION OF AREA ALLOWING RUNOFF	=	100.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	1.0000	HECTARES
EVAPORATIVE ZONE DEPTH	=	25.0	CM
INITIAL WATER IN EVAPORATIVE ZONE	=	4.750	CM
UPPER LIMIT OF EVAPORATIVE STORAGE	=	11.325	CM
LOWER LIMIT OF EVAPORATIVE STORAGE	=	2.125	CM
INITIAL SNOW WATER	=	0.000	CM
INITIAL WATER IN LAYER MATERIALS	=	639.000	CM
TOTAL INITIAL WATER	=	639.000	CM
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
SPLIT/KASTEL FORM

STATION LATITUDE	=	43.53	DEGREES
MAXIMUM LEAF AREA INDEX	=	5.00	
START OF GROWING SEASON (JULIAN DATE)	=	74	
END OF GROWING SEASON (JULIAN DATE)	=	319	
EVAPORATIVE ZONE DEPTH	=	25.0	CM
AVERAGE ANNUAL WIND SPEED	=	11.26	KPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	72.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	65.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	61.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00	%

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NORMAL MEAN MONTHLY PRECIPITATION (MM)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
82.1	80.0	94.8	70.1	79.0	50.5
20.0	50.2	52.5	79.1	89.0	99.8

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
COEFFICIENTS FOR SPLIT/KASTEL FORM

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES CELSIUS)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
7.3	7.9	10.2	13.1	17.6	21.3
24.3	24.2	20.8	16.8	11.7	8.9

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LEAK #1: PERCOLATION OR LEAKAGE THROUGH LAYER 2

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AVERAGE MONTHLY VALUES (MM) FOR YEARS 1 THROUGH 3

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	89.17	88.80	72.77	96.10	50.90	30.80
	34.30	28.70	23.33	103.07	101.00	85.60
STD. DEVIATIONS	89.98	20.29	16.54	52.77	30.78	12.90
	30.36	34.92	19.38	36.76	25.87	36.82
RUNOFF						
TOTALS	2.110	1.481	1.191	1.170	0.896	0.000
	0.000	3.335	0.000	5.180	2.717	3.667
STD. DEVIATIONS	1.985	1.776	1.031	1.008	1.259	0.000
	0.000	5.776	0.000	4.618	2.974	4.805
EVAPOTRANSPIRATION						
TOTALS	28.668	38.602	63.382	74.480	49.133	33.749
	31.407	29.004	23.155	51.638	24.750	20.591
STD. DEVIATIONS	2.246	2.970	3.929	31.122	6.995	9.220
	27.025	25.843	19.423	10.166	4.030	2.253
PERCOLATION/LEAKAGE THROUGH LAYER 2						
TOTALS	56.0954	47.0863	60.0427	64.1852	51.7111	30.0601
	19.9927	2.8369	2.8408	2.4522	11.7301	30.2083
STD. DEVIATIONS	46.8265	39.2460	24.2939	6.9576	15.9943	37.0536
	25.0445	1.9341	2.5792	2.8056	3.1828	4.5783

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AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 3

	MM		CU. METERS	PERCENT
PRECIPITATION	804.53	(141.833)	8045.3	100.00
RUNOFF	21.746	(4.5876)	217.46	2.703
EVAPOTRANSPIRATION	468.558	(16.3328)	4685.58	58.240
PERCOLATION/LEAKAGE THROUGH LAYER 2	379.24183	(73.37903)	3792.418	47.13811
CHANGE IN WATER STORAGE	-65.013	(6.9330)	-650.13	-8.081

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PEAK DAILY VALUES FOR YEARS 1 THROUGH 3

	(MM)	(CU. METERS)
PRECIPITATION	55.30	553.00000
RUNOFF	10.004	100.03577
PERCOLATION/LEAKAGE THROUGH LAYER 2	3.837613	38.37613
SNOW WATER	0.00	0.0000
MAXIMUM VEG. SOIL WATER (VOL/VOL)	0.2929	
MINIMUM VEG. SOIL WATER (VOL/VOL)	0.0850	

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FINAL WATER STORAGE AT END OF YEAR 3

LAYER	(CM)	(VOL/VOL)
1	27.7668	0.2777
2	591.7293	0.2959
SNOW WATER	0.000	

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