0074

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RECEIVED
MAR 30 1992
DIVISION OF
OIL GAS & MINING

March 23, 1992

Mr. Ben Grimes
Plateau Mining Company
P.O. Drawer PMC
Price, Utah

RE: Modified Sediment Pond Requirements.

Dear Ben:

As discussed with you by phone today we have reviewed conditions related to each sediment pond located within the CPMC permit area for comparison with the newly developed pond requirements being imposed by DOGM. In summary, the new regulations require that one of three following conditions be met.

1. Use **two spillways** capable of passing the 25-yr, 6-hr runoff event as identified in our November 4, 1991 review submittal to DOGM.

2. **Retain the 25-yr, 6-hr runoff event** and complete a **study** of downstream safety identifying "**loss of life**" potentials.

3. **Retain or Pass the 100-yr, 6-hr runoff event** without requiring the completion of a "loss of life" potential study.

According to our review, the 100-yr, 6-hr precipitation event is equal in magnitude to the 10-yr, 24-hr precipitation event for which the ponds have been designed. The attached calculation sheets compare volumes and flows for ponds 1, 3 and 7; then for all ponds located within the permit area. As can be seen, all ponds meet the volume storage requirement of the regulations while only ponds 2, 8 and 9 meet the flow discharge requirement without routing. Since only one of the criteria must be met, the ponds satisfy the new requirements without being modified as proposed in the November 4, 1991 letter to DOGM.

It is our understanding at this time that CPMC would like to restore pond mapping to the format and condition as submitted with the 1991 permit application. Such corrections will be made to our original mylars after we receive word from you that DOGM has accepted the findings contained herein.

Should you have any questions, please call.

Sincerely,

David E. Hansen, Ph.D., P.E.
Principal

HANSEN ALLEN & LUCE INC

CLIENT PLATEAU
PROJECT Permit Response
FEATURE Check of Ponds 1, 3 + 7
PROJECT NO. 002.08.200

SHEET 1 OF
COMPUTED
CHECKED
DATE 5 MAR 92

Check Ponds 1, 3 + 7 for new Spillway or Storage Capacities

OPTIONS

1. Use two Spillways (As modified for Nov 4, 91 Submittal to CPWK).
2. Retain 25 yr-6hr event with a review of Safety for "loss of life".
3. Retain or Pass the 100 yr-6hr event without "loss of life" review.

Option 1 was designed, not yet installed as of this date.

Check Option 3. $P_{100yr-6hr}$ = 2.1 inches (10 yr-24hr P = 2.1 in)

Pond #	Avail Vol (ac-ft)	10 y 24 Hr Vol (ac-ft)	100 y 6 Hr Vol (ac-ft)
1	0.85	0.76	0.76
3	2.26	2.22	2.21
7	0.63	0.58	0.57

This is expected based on SCS Curve theory, however, Printouts are attached to verify vol's and calculate Peaks.

Pond #	Spillway Capacity (cfs)*	100 yr 6 Hr Inflow (cfs)
1	3.2	8.48
3	5.2	20.1
7	1.7	4.18

* Based on Current configuration as shown on Table 742.221d in 1991 Permit Application

SUMMARY

Although none of the Ponds meet the flow criteria, they do meet storage criteria.

HANSEN ALLEN & LUCE INC

CLIENT: PLATEAU
PROJECT: Permit Renewal
FEATURE: Check all Ponds for Spillway Requirement
PROJECT NO. 007.08.200

SHEET 2 OF
COMPUTED DEH
CHECKED
DATE 5 MAR 92

Check all Ponds to see how they fit into New Regs.

- Storage enough to hold 100yr, 60hr Vol, or
- Spillways able to pass " " Runoff

Pond #	Storage Capacity (ac-ft)	100yr 60hr Volume (ac-ft)	Spillway Capacity (cfs)	100yr 60hr Inflow (cfs)
1	0.85	0.76	3.2	8.48 *
2	1.03	1.02	17.0	10.19
3	2.26	2.21	5.2	20.1 *
4	2.62	2.41	11.5	22.8 *
5	5.48	4.23	21.9	23.4 *
6	1.84	0.97	2.5	4.7 *
7	0.68	0.57	1.7	4.18 *
8	2.77	2.20	41.9	21.95
9	4.50	4.45	40.0	28.76

* Exceeds Capacity, routing may allow passage

Summary

All pass design requirements for Containment.
Ponds 2, 8 and 9 Pass flow
Ponds 1 and 3-7 exceed discharge capacity but some may pass if routed.

PROJECT : CPMC - Pond 1 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 14.6 ACRES
AVERAGE BASIN SLOPE= 52.0 PERCENT
CURVE NUMBER= 80.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 1420. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .0648 HOURS QPCFS= 170.35 CFS QPIN=11.5708 INCHES
C3= 57.0327 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
2.01	.4967	.0000	.0000	.0	.00
2.03	.5218	.0002	.0002	16.2	.00
2.04	.5470	.0009	.0007	83.4	.03
2.06	.5722	.0020	.0012	148.2	.10
2.07	.5974	.0037	.0016	170.3	.26
2.09	.6225	.0057	.0021	154.3	.49
2.11	.6477	.0082	.0025	120.2	.78
2.12	.6729	.0112	.0029	84.3	1.12
2.14	.6981	.0145	.0034	54.8	1.48
2.15	.7232	.0183	.0038	33.6	1.86
2.17	.7484	.0225	.0042	19.7	2.24
2.19	.7736	.0270	.0045	11.1	2.62
2.20	.7988	.0319	.0049	6.1	3.00
2.22	.8239	.0372	.0053	3.3	3.36
2.24	.8491	.0428	.0056	1.7	3.72
2.25	.8743	.0487	.0060	.9	4.07
2.27	.8995	.0550	.0063	.4	4.41
2.28	.9246	.0617	.0066	.2	4.74
2.30	.9498	.0686	.0069	.1	5.06
2.32	.9750	.0758	.0072	.0	5.37
2.01	.4967	.0000	.0000	.0	.00
2.03	.5218	.0002	.0002	16.2	.00
2.04	.5470	.0009	.0007	83.4	.03
2.06	.5722	.0020	.0012	148.2	.10
2.07	.5974	.0037	.0016	170.3	.26
2.09	.6225	.0057	.0021	154.3	.49
2.11	.6477	.0082	.0025	120.2	.78
2.12	.6729	.0112	.0029	84.3	1.12
2.14	.6981	.0145	.0034	54.8	1.48
2.15	.7232	.0183	.0038	33.6	1.86
2.17	.7484	.0225	.0042	19.7	2.24
2.19	.7736	.0270	.0045	11.1	2.62
2.20	.7988	.0319	.0049	6.1	3.00
2.22	.8239	.0372	.0053	3.3	3.36
2.24	.8491	.0428	.0056	1.7	3.72

PROJECT : CPMC - Pond 1 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event
(Continued)

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
2.25	.8743	.0487	.0060	.9	4.07
2.27	.8995	.0550	.0063	.4	4.41
2.28	.9246	.0617	.0066	.2	4.74
2.30	.9498	.0686	.0069	.1	5.06
2.32	.9750	.0758	.0072	.0	5.37
2.33	1.0002	.0834	.0075	.0	5.68
2.35	1.0253	.0912	.0078	.0	5.97
2.37	1.0505	.0994	.0081	.0	6.26
2.38	1.0757	.1078	.0084	.0	6.54
2.40	1.1009	.1164	.0087	.0	6.82
2.41	1.1260	.1254	.0089	.0	7.09
2.43	1.1512	.1346	.0092	.0	7.35
2.45	1.1764	.1440	.0095	.0	7.60
2.46	1.2016	.1537	.0097	.0	7.85
2.48	1.2267	.1637	.0099	.0	8.09
2.49	1.2519	.1739	.0102	.0	8.33
2.51	1.2646	.1791	.0052	.0	8.48
2.53	1.2714	.1819	.0028	.0	8.23
2.54	1.2782	.1847	.0028	.0	7.46
2.56	1.2850	.1876	.0029	.0	6.38
2.58	1.2918	.1905	.0029	.0	5.29
2.59	1.2986	.1934	.0029	.0	4.39
2.61	1.3054	.1963	.0029	.0	3.72

HYDROGRAPH PEAK= 8.48 cfs
TIME TO PEAK= 2.51 Hours
RUNOFF VOLUME= .76 Acre-Feet

PROJECT : CPMC Pond 2 - Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 15.1 ACRES
AVERAGE BASIN SLOPE= 32.0 PERCENT
CURVE NUMBER= 84.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 3860. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .1614 HOURS QPCFS= 70.76 CFS QPIN= 4.6470 INCHES
C3= 22.9049 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
1.74	.3805	.0000	.0000	.0	.00
1.78	.3933	.0000	.0000	3.6	.00
1.81	.4062	.0003	.0003	22.0	.00
1.84	.4191	.0007	.0004	47.0	.01
1.87	.4320	.0013	.0006	65.0	.03
1.90	.4449	.0021	.0007	70.8	.06
1.94	.4577	.0030	.0009	66.3	.10
1.97	.4706	.0040	.0011	55.9	.15
2.00	.4849	.0054	.0013	43.8	.21
2.03	.5351	.0115	.0062	32.3	.29
2.07	.5852	.0198	.0082	22.8	.47
2.10	.6354	.0300	.0102	15.5	.82
2.13	.6856	.0420	.0120	10.2	1.34
2.16	.7357	.0557	.0137	6.5	2.00
2.19	.7859	.0710	.0153	4.1	2.76
2.23	.8360	.0878	.0168	2.5	3.57
2.26	.8862	.1059	.0182	1.5	4.39
2.29	.9364	.1254	.0195	.9	5.21
2.32	.9865	.1461	.0207	.5	6.00
2.36	1.0367	.1679	.0218	.3	6.76
2.39	1.0868	.1909	.0229	.2	7.48
2.42	1.1370	.2148	.0240	.1	8.16
2.45	1.1872	.2398	.0249	.0	8.80
2.49	1.2373	.2656	.0258	.0	9.40
2.52	1.2674	.2815	.0159	.0	9.93
2.55	1.2810	.2888	.0073	.0	10.19
2.58	1.2945	.2961	.0073	.0	9.98
2.61	1.3081	.3035	.0074	.0	9.29
2.65	1.3217	.3110	.0075	.0	8.31
2.68	1.3352	.3185	.0075	.0	7.26
2.71	1.3488	.3261	.0076	.0	6.29
2.74	1.3623	.3337	.0076	.0	5.49

HYDROGRAPH PEAK= 10.19 cfs
TIME TO PEAK= 2.55 Hours
RUNOFF VOLUME= 1.02 Acre-Feet

PROJECT : CPMC - Pond 3 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 57.1 ACRES
AVERAGE BASIN SLOPE= 65.0 PERCENT
CURVE NUMBER= 76.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 3590. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .1374 HOURS QPCFS= 314.39 CFS QPIN= 5.4602 INCHES
C3= 26.9135 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
2.09	.6194	.0000	.0000	.0	.00
2.12	.6620	.0003	.0003	15.8	.00
2.14	.7047	.0017	.0014	97.7	.05
2.17	.7474	.0041	.0024	208.7	.23
2.20	.7901	.0076	.0035	288.6	.66
2.23	.8328	.0121	.0045	314.4	1.41
2.25	.8755	.0175	.0054	294.5	2.47
2.28	.9182	.0238	.0064	248.6	3.81
2.31	.9609	.0311	.0072	194.4	5.37
2.33	1.0036	.0392	.0081	143.5	7.08
2.36	1.0462	.0481	.0089	101.1	8.87
2.39	1.0889	.0579	.0097	68.7	10.71
2.42	1.1316	.0684	.0105	45.2	12.54
2.44	1.1743	.0796	.0112	29.0	14.36
2.47	1.2170	.0916	.0120	18.2	16.14
2.50	1.2597	.1042	.0127	11.2	17.88
2.53	1.2715	.1078	.0036	6.8	19.41
2.55	1.2830	.1114	.0036	4.1	20.09
2.58	1.2945	.1150	.0036	2.4	19.57
2.61	1.3061	.1187	.0037	1.4	18.09
2.64	1.3176	.1224	.0037	.8	16.14
2.66	1.3291	.1262	.0038	.5	14.15
2.69	1.3407	.1300	.0038	.3	12.41
2.72	1.3522	.1339	.0039	.1	11.02
2.75	1.3638	.1378	.0039	.0	10.00

HYDROGRAPH PEAK= 20.09 cfs
TIME TO PEAK= 2.55 Hours
RUNOFF VOLUME= 2.21 Acre-Feet

PROJECT : CPMC Pond 4 [illegible]flow Hydrograph - 100 Yr, [illegible] Hr Runoff Event

AREA= 40.6 ACRES
AVERAGE BASIN SLOPE= 33.0 PERCENT
CURVE NUMBER= 82.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 4120. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .1790 HOURS QPCFS= 171.42 CFS QPIN= 4.1902 INCHES
C3= 20.6537 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
1.86	.4277	.0000	.0000	.0	.00
1.90	.4420	.0000	.0000	8.6	.00
1.93	.4563	.0001	.0001	53.2	.00
1.97	.4705	.0004	.0003	113.8	.01
2.00	.4901	.0012	.0007	157.4	.04
2.04	.5458	.0049	.0038	171.4	.13
2.08	.6014	.0112	.0062	160.6	.41
2.11	.6570	.0197	.0085	135.5	1.02
2.15	.7126	.0303	.0106	106.0	2.04
2.18	.7683	.0429	.0126	78.2	3.44
2.22	.8239	.0574	.0145	55.1	5.16
2.26	.8795	.0736	.0162	37.4	7.10
2.29	.9351	.0915	.0178	24.7	9.16
2.33	.9908	.1108	.0194	15.8	11.27
2.36	1.0464	.1316	.0208	9.9	13.37
2.40	1.1020	.1538	.0222	6.1	15.42
2.43	1.1576	.1772	.0234	3.7	17.40
2.47	1.2133	.2019	.0246	2.2	19.29
2.51	1.2624	.2246	.0227	1.3	21.05
2.54	1.2774	.2317	.0071	.8	22.44
2.58	1.2925	.2389	.0072	.4	22.80
2.61	1.3075	.2462	.0073	.3	21.88
2.65	1.3225	.2536	.0074	.1	20.00
2.68	1.3376	.2610	.0074	.0	17.70
2.72	1.3526	.2685	.0075	.0	15.44
2.76	1.3676	.2761	.0076	.0	13.50
2.79	1.3827	.2837	.0076	.0	11.97

HYDROGRAPH PEAK= 22.80 cfs
TIME TO PEAK= 2.58 Hours
RUNOFF VOLUME= 2.41 Acre-Feet

PROJECT : CPMC Pond 5 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 95.0 ACRES
AVERAGE BASIN SLOPE= 26.6 PERCENT
CURVE NUMBER= 78.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 9700. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .4482 HOURS QPCFS= 160.26 CFS QPIN= 1.6733 INCHES
C3= 8.2478 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
1.97	.4718	.0000	.0000	.0	.00
2.06	.5789	.0000	.0000	8.0	.00
2.15	.7182	.0080	.0079	49.8	.07
2.24	.8575	.0276	.0197	106.4	.56
2.33	.9968	.0575	.0299	147.1	2.07
2.42	1.1361	.0964	.0389	160.3	5.07
2.51	1.2642	.1392	.0428	150.1	9.63
2.60	1.3018	.1529	.0137	126.7	15.12
2.69	1.3394	.1672	.0142	99.1	19.82
2.78	1.3771	.1819	.0147	73.1	22.58
2.87	1.4147	.1971	.0152	51.5	23.40
2.96	1.4524	.2128	.0157	35.0	22.91
3.05	1.4860	.2271	.0144	23.1	21.78
3.14	1.5162	.2403	.0131	14.8	20.46
3.23	1.5463	.2537	.0134	9.3	19.16
3.32	1.5764	.2674	.0137	5.7	17.98
3.41	1.6065	.2813	.0139	3.5	17.00
3.50	1.6366	.2955	.0142	2.1	16.26
3.59	1.6578	.3056	.0101	1.2	15.71
3.68	1.6785	.3156	.0100	.7	15.19
3.76	1.6992	.3257	.0101	.4	14.57
3.85	1.7199	.3359	.0102	.2	13.88
3.94	1.7406	.3463	.0103	.1	13.19
4.03	1.7606	.3564	.0101	.0	12.59

HYDROGRAPH PEAK= 23.40 cfs
TIME TO PEAK= 2.87 Hours
RUNOFF VOLUME= 4.23 Acre-Feet

PROJECT : CPMC Pond 6 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 38.0 ACRES
AVERAGE BASIN SLOPE= 17.9 PERCENT
CURVE NUMBER= 71.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 3380. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .2871 HOURS QPCFS= 100.08 CFS QPIN= 2.6119 INCHES
C3= 12.8742 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
2.18	.7662	.0000	.0000	.0	.00
2.24	.8554	.0004	.0004	5.0	.00
2.30	.9447	.0039	.0035	31.1	.03
2.35	1.0339	.0109	.0071	66.4	.17
2.41	1.1231	.0214	.0104	91.9	.54
2.47	1.2124	.0349	.0136	100.1	1.22
2.53	1.2712	.0455	.0106	93.8	2.20
2.58	1.2954	.0502	.0047	79.1	3.28
2.64	1.3195	.0551	.0049	61.9	4.12
2.70	1.3436	.0602	.0051	45.7	4.59
2.76	1.3677	.0655	.0053	32.2	4.70
2.81	1.3918	.0709	.0055	21.9	4.60
2.87	1.4160	.0766	.0057	14.4	4.41
2.93	1.4401	.0825	.0059	9.2	4.21
2.99	1.4642	.0885	.0061	5.8	4.06
3.04	1.4847	.0938	.0053	3.6	3.97
3.10	1.5040	.0989	.0051	2.2	3.90
3.16	1.5232	.1041	.0052	1.3	3.84
3.22	1.5425	.1095	.0053	.8	3.77
3.27	1.5618	.1149	.0054	.4	3.71
3.33	1.5811	.1205	.0055	.3	3.66
3.39	1.6004	.1261	.0057	.1	3.64
3.45	1.6197	.1319	.0058	.0	3.63

HYDROGRAPH PEAK= 4.70 cfs
TIME TO PEAK= 2.76 Hours
RUNOFF VOLUME= .97 Acre-Feet

PROJECT : CPMC Pond 7 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 14.8 ACRES
AVERAGE BASIN SLOPE= 15.0 PERCENT
CURVE NUMBER= 76.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 2750. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .2310 HOURS QPCFS= 48.45 CFS QPIN= 3.2465 INCHES
C3= 16.0018 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
2.08	.6059	.0000	.0000	.0	.00
2.13	.6777	.0007	.0007	2.4	.00
2.17	.7495	.0042	.0036	15.0	.02
2.22	.8213	.0108	.0065	32.2	.09
2.26	.8931	.0200	.0093	44.5	.27
2.31	.9649	.0318	.0118	48.4	.57
2.36	1.0367	.0461	.0142	45.4	1.00
2.40	1.1085	.0626	.0165	38.3	1.55
2.45	1.1803	.0812	.0187	30.0	2.18
2.49	1.2521	.1019	.0207	22.1	2.86
2.54	1.2773	.1096	.0077	15.6	3.53
2.59	1.2967	.1157	.0061	10.6	4.01
2.63	1.3161	.1219	.0062	7.0	4.18
2.68	1.3355	.1283	.0064	4.5	4.06
2.73	1.3549	.1348	.0065	2.8	3.76
2.77	1.3743	.1414	.0066	1.7	3.41
2.82	1.3937	.1482	.0067	1.0	3.07
2.86	1.4131	.1550	.0069	.6	2.79
2.91	1.4325	.1620	.0070	.4	2.58
2.96	1.4519	.1692	.0071	.2	2.44
3.00	1.4711	.1763	.0071	.1	2.36
3.05	1.4866	.1822	.0059	.0	2.31

HYDROGRAPH PEAK= 4.18 cfs
TIME TO PEAK= 2.63 Hours
RUNOFF VOLUME= .57 Acre-Feet

PROJECT : CPMC Pond 8 Inflow Hydrograph - 100 Yr, 6 Hr Runoff Event

AREA= 56.6 ACRES

AVERAGE BASIN SLOPE= 64.0 PERCENT
CURVE NUMBER= 76.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS

HYDRAULIC LENGTH= 2180. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .0929 HOURS QPCFS= 460.72 CFS QPIN= 8.0752 INCHES
C3= 39.8028 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
2.08	.6079	.0000	.0000	.0	.00
2.10	.6367	.0000	.0000	23.1	.00
2.12	.6656	.0004	.0004	143.1	.00
2.14	.6945	.0012	.0009	305.9	.07
2.15	.7233	.0026	.0014	422.9	.27
2.17	.7522	.0044	.0018	460.7	.66
2.19	.7811	.0068	.0023	431.6	1.27
2.21	.8099	.0095	.0028	364.3	2.09
2.23	.8388	.0128	.0032	284.9	3.10
2.25	.8677	.0164	.0037	210.3	4.23
2.27	.8965	.0205	.0041	148.2	5.46
2.28	.9254	.0250	.0045	100.6	6.75
2.30	.9543	.0299	.0049	66.3	8.06
2.32	.9831	.0352	.0053	42.5	9.38
2.34	1.0120	.0409	.0057	26.7	10.69
2.36	1.0409	.0470	.0061	16.5	11.99
2.38	1.0697	.0534	.0064	10.0	13.26
2.40	1.0986	.0602	.0068	6.0	14.51
2.41	1.1274	.0673	.0071	3.5	15.73
2.43	1.1563	.0748	.0075	2.0	16.92
2.45	1.1852	.0826	.0078	1.2	18.09
2.47	1.2140	.0907	.0081	.7	19.22
2.49	1.2429	.0992	.0084	.4	20.34
2.51	1.2632	.1053	.0061	.2	21.36
2.53	1.2710	.1077	.0024	.1	21.95
2.54	1.2788	.1101	.0024	.0	21.59
2.56	1.2866	.1125	.0024	.0	20.21
2.58	1.2944	.1150	.0025	.0	18.15
2.60	1.3022	.1175	.0025	.0	15.87
2.62	1.3100	.1200	.0025	.0	13.76
2.64	1.3178	.1225	.0025	.0	11.99

HYDROGRAPH PEAK= 21.95 cfs
TIME TO PEAK= 2.53 Hours
RUNOFF VOLUME= 2.20 Acre-Feet

PROJECT : CPMC Pond 9 Inflow Hydrograph

AREA= 80.0 ACRES
AVERAGE BASIN SLOPE= 26.6 PERCENT
CURVE NUMBER= 81.0
DESIGN STORM= 2.10 INCHES
STORM DURATION= 6.0 HOURS
HYDRAULIC LENGTH= 9130. FEET
MINIMUM INFILTRATION RATE= .00 IN/HR

TP= .3891 HOURS QPCFS= 155.48 CFS QPIN= 1.9274 INCHES
C3= 9.5000 ITERATIONS= 8 SCS 6-hour

TIME HOURS	ACCUMULATED RAINFALL INCHES	RUNOFF INCHES	RAINFALL EXCESS INCHES	UNIT HYDROGRAPH CFS	OUTFLOW HYDROGRAPH CFS
1.95	.4613	.0000	.0000	.0	.00
2.02	.5194	.0011	.0011	7.8	.00
2.10	.6403	.0116	.0106	48.3	.13
2.18	.7612	.0323	.0207	103.2	.78
2.26	.8822	.0618	.0295	142.7	2.47
2.33	1.0031	.0990	.0372	155.5	5.53
2.41	1.1241	.1429	.0439	145.6	9.94
2.49	1.2450	.1928	.0499	122.9	15.45
2.57	1.2886	.2122	.0193	96.2	21.41
2.65	1.3213	.2271	.0149	71.0	26.18
2.72	1.3540	.2424	.0153	50.0	28.62
2.80	1.3867	.2580	.0156	34.0	28.76
2.88	1.4194	.2740	.0160	22.4	27.34
2.96	1.4521	.2903	.0163	14.4	25.25
3.04	1.4818	.3054	.0151	9.0	23.11
3.11	1.5079	.3188	.0135	5.6	21.20
3.19	1.5341	.3325	.0137	3.4	19.58
3.27	1.5602	.3464	.0139	2.0	18.22
3.35	1.5864	.3605	.0141	1.2	17.13
3.42	1.6125	.3747	.0142	.7	16.29
3.50	1.6385	.3890	.0143	.4	15.70
3.58	1.6564	.3990	.0100	.2	15.27
3.66	1.6744	.4091	.0101	.1	14.83
3.74	1.6924	.4193	.0102	.0	14.25

HYDROGRAPH PEAK= 28.76 cfs
TIME TO PEAK= 2.80 Hours
RUNOFF VOLUME= 4.45 Acre-Feet