
Enova Premier **2019 Expansion**

REVISED 03-06-19
PROPOSED CONDITIONS
TRAILER PARKING EXPANSION

John W. Hunt, PE, PLS

MLH Civil Engineers, PLLC
3320 Clays Mill Road, Suite #208
PO Box 910379
Lexington, KY 40591-0379

Phone: 859-219-1066
Email: john@mlhcivil.com

General Information

Storm Information:

Storm Type:	NRCS Type II
Design Storm:	10 yr - 1 hr
Rainfall Depth:	2.000 inches

Structure Networking:

Type	Stru #	(flows into)	Stru #	Musk. K (hrs)	Musk. X	Description
Pond	#1	==>	End	0.000	0.000	Basin Watershed

#1
Pond

Structure Summary:

		Immediate Contributing Area (ac)	Total Contributing Area (ac)	Peak Discharge (cfs)	Total Runoff Volume (ac-ft)
#1	In	11.500	11.500	16.79	0.84
	Out			1.73	0.84

Structure Detail:

Structure #1 (Pond)

Basin Watershed

Pond Inputs:

Initial Pool Elev:	856.08 ft
Initial Pool:	0.00 ac-ft

Drop Inlet

Riser Diameter (in)	Riser Height (ft)	Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)
33.00	7.03	30.00	47.90	2.17	0.0130	861.91

Straight Pipe

Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)	Entrance Loss Coefficient	Tailwater Depth (ft)
6.50	47.90	2.17	0.0120	856.08	0.50	0.00

Pond Results:

Peak Elevation:	861.23 ft
Dewater Time:	0.24 days

Dewatering time is calculated from peak stage to lowest spillway

Elevation-Capacity-Discharge Table

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.07	0.000	0.000	0.000	
856.08	0.000	0.000	0.000	Spillway #2
856.10	0.000	0.000	0.010	
856.13	0.000	0.000	0.024	
856.16	0.000	0.000	0.038	
856.19	0.001	0.000	0.053	
856.22	0.001	0.000	0.067	
856.25	0.001	0.000	0.081	
856.28	0.001	0.000	0.096	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.31	0.001	0.000	0.120	
856.34	0.001	0.000	0.148	
856.37	0.002	0.000	0.177	0.05
856.40	0.002	0.000	0.205	
856.43	0.002	0.000	0.233	
856.46	0.002	0.000	0.262	
856.49	0.003	0.000	0.290	
856.52	0.003	0.001	0.319	
856.55	0.003	0.001	0.347	
856.58	0.004	0.001	0.375	
856.61	0.004	0.001	0.404	
856.64	0.004	0.001	0.432	
856.67	0.005	0.001	0.461	
856.70	0.005	0.001	0.489	
856.73	0.006	0.001	0.517	
856.76	0.006	0.002	0.546	
856.79	0.006	0.002	0.574	0.05
856.82	0.007	0.002	0.601	
856.85	0.007	0.002	0.617	
856.88	0.008	0.002	0.633	
856.91	0.008	0.003	0.649	
856.94	0.009	0.003	0.665	
856.97	0.009	0.003	0.681	
857.00	0.010	0.003	0.696	
857.03	0.011	0.004	0.712	
857.06	0.012	0.004	0.728	
857.09	0.013	0.005	0.744	0.05
857.12	0.014	0.005	0.760	
857.15	0.015	0.005	0.775	
857.18	0.016	0.006	0.791	
857.21	0.017	0.006	0.807	
857.24	0.018	0.007	0.823	
857.27	0.019	0.007	0.839	
857.30	0.020	0.008	0.854	0.05
857.33	0.022	0.009	0.870	
857.36	0.023	0.009	0.886	
857.39	0.024	0.010	0.902	
857.42	0.026	0.011	0.918	
857.45	0.027	0.012	0.933	0.05
857.48	0.029	0.012	0.949	
857.51	0.030	0.013	0.965	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
857.54	0.032	0.014	0.981	
857.57	0.033	0.015	0.997	
857.60	0.035	0.016	1.012	0.05
857.63	0.036	0.017	1.028	
857.66	0.038	0.018	1.044	
857.69	0.040	0.019	1.060	
857.72	0.041	0.021	1.076	0.05
857.75	0.043	0.022	1.091	
857.78	0.045	0.023	1.103	
857.81	0.047	0.025	1.109	0.05
857.84	0.049	0.026	1.114	
857.87	0.051	0.028	1.120	
857.90	0.053	0.029	1.126	0.05
857.93	0.055	0.031	1.132	
857.96	0.057	0.032	1.138	
857.99	0.059	0.034	1.144	0.05
858.00	0.059	0.035	1.146	
858.02	0.061	0.036	1.149	
858.05	0.062	0.038	1.155	
858.08	0.064	0.040	1.161	0.05
858.11	0.066	0.042	1.167	
858.14	0.068	0.044	1.173	0.05
858.17	0.070	0.046	1.179	
858.20	0.072	0.048	1.185	0.05
858.23	0.074	0.050	1.190	
858.26	0.076	0.052	1.196	
858.29	0.078	0.055	1.202	0.05
858.32	0.080	0.057	1.208	
858.35	0.082	0.059	1.214	0.05
858.38	0.084	0.062	1.220	
858.41	0.086	0.064	1.225	0.05
858.44	0.088	0.067	1.231	
858.47	0.090	0.070	1.237	0.05
858.50	0.093	0.072	1.243	
858.53	0.095	0.075	1.249	0.05
858.56	0.097	0.078	1.255	0.05
858.59	0.099	0.081	1.260	
858.62	0.102	0.084	1.266	0.05
858.65	0.104	0.087	1.272	
858.68	0.106	0.090	1.278	0.05
858.71	0.109	0.094	1.284	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
858.74	0.111	0.097	1.290	0.05
858.77	0.113	0.100	1.296	0.05
858.80	0.116	0.104	1.301	
858.83	0.118	0.107	1.307	0.05
858.86	0.121	0.111	1.313	0.05
858.89	0.123	0.114	1.319	
858.92	0.126	0.118	1.325	0.05
858.95	0.129	0.122	1.331	0.05
858.98	0.131	0.126	1.336	
859.00	0.133	0.129	1.340	0.05
859.01	0.134	0.130	1.342	
859.04	0.137	0.134	1.348	0.05
859.07	0.140	0.138	1.354	0.05
859.10	0.142	0.142	1.360	
859.13	0.145	0.147	1.366	0.05
859.16	0.148	0.151	1.372	0.05
859.19	0.151	0.155	1.377	0.05
859.22	0.154	0.160	1.383	
859.25	0.157	0.165	1.389	0.05
859.28	0.160	0.169	1.395	0.05
859.31	0.163	0.174	1.401	0.05
859.34	0.166	0.179	1.407	0.05
859.37	0.169	0.184	1.412	0.05
859.40	0.172	0.189	1.418	0.05
859.43	0.176	0.195	1.424	
859.46	0.179	0.200	1.430	0.05
859.49	0.182	0.205	1.436	0.05
859.52	0.185	0.211	1.442	0.05
859.55	0.188	0.216	1.447	0.05
859.58	0.192	0.222	1.453	0.05
859.61	0.195	0.228	1.459	0.05
859.64	0.198	0.234	1.465	0.05
859.67	0.202	0.240	1.471	0.05
859.70	0.205	0.246	1.477	0.05
859.73	0.209	0.252	1.483	0.05
859.76	0.212	0.259	1.488	0.05
859.79	0.216	0.265	1.494	0.05
859.82	0.219	0.271	1.500	0.05
859.85	0.223	0.278	1.506	0.05
859.88	0.226	0.285	1.512	0.05
859.91	0.230	0.292	1.518	0.05

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
859.94	0.234	0.299	1.523	0.10
859.97	0.237	0.306	1.529	0.05
860.00	0.241	0.313	1.535	0.05
860.03	0.244	0.320	1.541	0.05
860.06	0.246	0.327	1.547	0.05
860.09	0.249	0.335	1.553	0.05
860.12	0.252	0.342	1.559	0.05
860.15	0.254	0.350	1.564	0.10
860.18	0.257	0.358	1.570	0.05
860.21	0.260	0.365	1.576	0.05
860.24	0.262	0.373	1.582	0.05
860.27	0.265	0.381	1.588	0.05
860.30	0.268	0.389	1.594	0.10
860.33	0.271	0.397	1.599	0.05
860.36	0.273	0.405	1.604	0.05
860.39	0.276	0.414	1.608	0.05
860.42	0.279	0.422	1.612	0.10
860.45	0.282	0.430	1.617	0.05
860.48	0.285	0.439	1.621	0.05
860.51	0.287	0.447	1.625	0.05
860.54	0.290	0.456	1.629	0.10
860.57	0.293	0.465	1.634	0.05
860.60	0.296	0.474	1.638	0.05
860.63	0.299	0.483	1.642	0.10
860.66	0.302	0.492	1.646	0.05
860.69	0.305	0.501	1.651	0.05
860.72	0.308	0.510	1.655	0.10
860.75	0.311	0.519	1.659	0.05
860.78	0.314	0.529	1.664	0.05
860.81	0.317	0.538	1.668	0.10
860.84	0.320	0.548	1.672	0.05
860.87	0.323	0.557	1.676	0.05
860.90	0.326	0.567	1.681	0.10
860.93	0.329	0.577	1.685	0.05
860.96	0.332	0.587	1.689	0.10
860.99	0.335	0.597	1.693	0.05
861.00	0.336	0.600	1.695	0.05
861.02	0.338	0.607	1.698	0.05
861.05	0.340	0.617	1.702	0.05
861.08	0.343	0.627	1.706	0.05
861.11	0.345	0.638	1.710	0.10

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
861.14	0.348	0.648	1.715	0.10
861.17	0.350	0.658	1.719	0.05
861.20	0.353	0.669	1.723	0.10
861.23	0.355	0.679	1.727	0.15 Peak Stage
861.23	0.355	0.680	1.728	
861.26	0.358	0.690	1.732	
861.29	0.360	0.701	1.736	
861.32	0.363	0.712	1.740	
861.35	0.365	0.723	1.745	
861.38	0.368	0.734	1.749	
861.41	0.370	0.745	1.753	
861.44	0.373	0.756	1.757	
861.47	0.376	0.767	1.762	
861.50	0.378	0.779	1.766	
861.53	0.381	0.790	1.770	
861.56	0.383	0.801	1.774	
861.59	0.386	0.813	1.779	
861.62	0.389	0.825	1.783	
861.65	0.391	0.836	1.787	
861.68	0.394	0.848	1.791	
861.70	0.396	0.856	1.794	
861.71	0.397	0.860	1.796	
861.74	0.399	0.872	1.800	
861.77	0.402	0.884	1.804	
861.80	0.405	0.896	1.809	
861.83	0.408	0.908	1.813	
861.86	0.410	0.920	1.817	
861.89	0.413	0.933	1.821	
861.91	0.415	0.941	1.824	Spillway #1
861.92	0.416	0.945	1.853	
861.95	0.418	0.958	2.044	
861.98	0.421	0.970	2.331	
862.00	0.423	0.979	2.560	
862.01	0.424	0.983	2.686	
862.04	0.427	0.996	3.098	
862.07	0.431	1.009	3.562	
862.10	0.434	1.022	4.070	
862.13	0.437	1.035	4.620	
862.16	0.440	1.048	5.208	
862.19	0.444	1.061	5.833	
862.22	0.447	1.074	6.492	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
862.25	0.450	1.088	7.183	
862.28	0.454	1.101	7.905	
862.31	0.457	1.115	8.657	
862.34	0.461	1.129	9.438	
862.37	0.464	1.143	10.246	
862.40	0.467	1.157	11.081	
862.43	0.471	1.171	11.942	
862.46	0.474	1.185	12.828	
862.49	0.478	1.199	13.738	
862.52	0.481	1.214	14.672	
862.55	0.485	1.228	15.629	
862.58	0.488	1.243	16.608	
862.61	0.492	1.257	17.610	
862.64	0.495	1.272	18.633	
862.67	0.499	1.287	19.678	
862.70	0.502	1.302	20.743	
862.73	0.506	1.317	21.829	
862.76	0.509	1.332	22.934	
862.79	0.513	1.348	24.060	
862.82	0.516	1.363	25.204	
862.85	0.520	1.379	26.367	
862.88	0.523	1.394	27.549	
862.91	0.527	1.410	28.750	
862.94	0.531	1.426	29.968	
862.97	0.534	1.442	31.205	
863.00	0.538	1.458	31.838	
863.03	0.541	1.474	32.250	
863.06	0.544	1.491	32.657	
863.09	0.547	1.507	33.059	
863.12	0.550	1.523	33.455	
863.15	0.553	1.540	33.847	
863.18	0.556	1.557	34.234	
863.21	0.559	1.573	34.617	
863.24	0.562	1.590	34.996	
863.27	0.565	1.607	35.370	
863.30	0.568	1.624	35.740	
863.33	0.571	1.641	36.106	
863.36	0.574	1.658	36.468	
863.39	0.577	1.676	36.827	
863.42	0.581	1.693	37.182	
863.45	0.584	1.710	37.534	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
863.48	0.587	1.728	37.882	
863.51	0.590	1.746	38.227	
863.54	0.593	1.763	38.569	
863.57	0.596	1.781	38.908	
863.60	0.599	1.799	39.243	
863.63	0.602	1.817	39.576	
863.66	0.606	1.835	39.906	
863.69	0.609	1.853	40.233	
863.72	0.612	1.872	40.558	
863.75	0.615	1.890	40.880	
863.78	0.618	1.909	41.199	
863.81	0.622	1.927	41.515	
863.84	0.625	1.946	41.830	
863.87	0.628	1.965	42.141	
863.90	0.631	1.984	42.450	
863.93	0.634	2.003	42.756	
863.96	0.638	2.022	43.060	
863.99	0.641	2.041	43.362	
864.00	0.642	2.047	43.462	
864.02	0.644	2.060	43.662	
864.05	0.647	2.080	43.959	
864.08	0.650	2.099	44.255	
864.11	0.653	2.119	44.548	
864.14	0.656	2.138	44.840	
864.17	0.659	2.158	45.130	
864.20	0.662	2.178	45.417	
864.23	0.665	2.198	45.703	
864.26	0.668	2.218	45.987	
864.29	0.671	2.238	46.270	
864.32	0.674	2.258	46.550	
864.35	0.677	2.278	46.829	
864.38	0.680	2.298	47.106	
864.41	0.683	2.319	47.382	
864.44	0.686	2.339	47.656	
864.47	0.689	2.360	47.928	
864.50	0.692	2.381	48.199	
864.53	0.695	2.402	48.468	
864.56	0.698	2.422	48.735	
864.59	0.701	2.443	49.002	
864.62	0.704	2.465	49.266	
864.65	0.707	2.486	49.529	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
864.68	0.711	2.507	49.791	
864.71	0.714	2.528	50.052	
864.74	0.717	2.550	50.311	
864.77	0.720	2.571	50.568	
864.80	0.723	2.593	50.825	
864.83	0.726	2.615	51.080	
864.86	0.729	2.637	51.334	
864.89	0.732	2.658	51.586	
864.92	0.736	2.680	51.837	
864.95	0.739	2.703	52.087	
864.98	0.742	2.725	52.336	
865.00	0.744	2.740	52.501	

Detailed Discharge Table

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
856.07	0.000	0.000	0.000
856.08	0.000	0.000	0.000
856.10	0.000	0.010	0.010
856.13	0.000	(1)>0.024	0.024
856.16	0.000	(1)>0.038	0.038
856.19	0.000	(2)>0.053	0.053
856.22	0.000	(2)>0.067	0.067
856.25	0.000	(2)>0.081	0.081
856.28	0.000	(3)>0.096	0.096
856.31	0.000	(3)>0.120	0.120
856.34	0.000	(3)>0.148	0.148
856.37	0.000	(3)>0.177	0.177
856.40	0.000	(3)>0.205	0.205
856.43	0.000	(4)>0.233	0.233
856.46	0.000	(4)>0.262	0.262
856.49	0.000	(4)>0.290	0.290
856.52	0.000	(4)>0.319	0.319
856.55	0.000	(4)>0.347	0.347
856.58	0.000	(4)>0.375	0.375
856.61	0.000	(4)>0.404	0.404
856.64	0.000	(4)>0.432	0.432
856.67	0.000	(4)>0.461	0.461

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
856.70	0.000	(5)>0.489	0.489
856.73	0.000	(5)>0.517	0.517
856.76	0.000	(5)>0.546	0.546
856.79	0.000	(5)>0.574	0.574
856.82	0.000	(5)>0.601	0.601
856.85	0.000	(5)>0.617	0.617
856.88	0.000	(5)>0.633	0.633
856.91	0.000	(5)>0.649	0.649
856.94	0.000	(5)>0.665	0.665
856.97	0.000	(5)>0.681	0.681
857.00	0.000	(5)>0.696	0.696
857.03	0.000	(5)>0.712	0.712
857.06	0.000	(5)>0.728	0.728
857.09	0.000	(5)>0.744	0.744
857.12	0.000	(5)>0.760	0.760
857.15	0.000	(5)>0.775	0.775
857.18	0.000	(5)>0.791	0.791
857.21	0.000	(5)>0.807	0.807
857.24	0.000	(5)>0.823	0.823
857.27	0.000	(5)>0.839	0.839
857.30	0.000	(6)>0.854	0.854
857.33	0.000	(6)>0.870	0.870
857.36	0.000	(6)>0.886	0.886
857.39	0.000	(6)>0.902	0.902
857.42	0.000	(6)>0.918	0.918
857.45	0.000	(6)>0.933	0.933
857.48	0.000	(6)>0.949	0.949
857.51	0.000	(6)>0.965	0.965
857.54	0.000	(6)>0.981	0.981
857.57	0.000	(6)>0.997	0.997
857.60	0.000	(6)>1.012	1.012
857.63	0.000	(6)>1.028	1.028
857.66	0.000	(6)>1.044	1.044
857.69	0.000	(6)>1.060	1.060
857.72	0.000	(6)>1.076	1.076
857.75	0.000	(6)>1.091	1.091
857.78	0.000	(6)>1.103	1.103
857.81	0.000	(6)>1.109	1.109
857.84	0.000	(6)>1.114	1.114
857.87	0.000	(6)>1.120	1.120

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
857.90	0.000	(6)>1.126	1.126
857.93	0.000	(6)>1.132	1.132
857.96	0.000	(6)>1.138	1.138
857.99	0.000	(6)>1.144	1.144
858.00	0.000	(6)>1.146	1.146
858.02	0.000	(6)>1.149	1.149
858.05	0.000	(6)>1.155	1.155
858.08	0.000	(6)>1.161	1.161
858.11	0.000	(6)>1.167	1.167
858.14	0.000	(6)>1.173	1.173
858.17	0.000	(6)>1.179	1.179
858.20	0.000	(6)>1.185	1.185
858.23	0.000	(6)>1.190	1.190
858.26	0.000	(6)>1.196	1.196
858.29	0.000	(6)>1.202	1.202
858.32	0.000	(6)>1.208	1.208
858.35	0.000	(6)>1.214	1.214
858.38	0.000	(6)>1.220	1.220
858.41	0.000	(6)>1.225	1.225
858.44	0.000	(6)>1.231	1.231
858.47	0.000	(6)>1.237	1.237
858.50	0.000	(6)>1.243	1.243
858.53	0.000	(6)>1.249	1.249
858.56	0.000	(6)>1.255	1.255
858.59	0.000	(6)>1.260	1.260
858.62	0.000	(6)>1.266	1.266
858.65	0.000	(6)>1.272	1.272
858.68	0.000	(6)>1.278	1.278
858.71	0.000	(6)>1.284	1.284
858.74	0.000	(6)>1.290	1.290
858.77	0.000	(6)>1.296	1.296
858.80	0.000	(6)>1.301	1.301
858.83	0.000	(6)>1.307	1.307
858.86	0.000	(6)>1.313	1.313
858.89	0.000	(6)>1.319	1.319
858.92	0.000	(6)>1.325	1.325
858.95	0.000	(6)>1.331	1.331
858.98	0.000	(6)>1.336	1.336
859.00	0.000	(6)>1.340	1.340
859.01	0.000	(6)>1.342	1.342

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
859.04	0.000	(6)>1.348	1.348
859.07	0.000	(6)>1.354	1.354
859.10	0.000	(6)>1.360	1.360
859.13	0.000	(6)>1.366	1.366
859.16	0.000	(6)>1.372	1.372
859.19	0.000	(6)>1.377	1.377
859.22	0.000	(6)>1.383	1.383
859.25	0.000	(6)>1.389	1.389
859.28	0.000	(6)>1.395	1.395
859.31	0.000	(6)>1.401	1.401
859.34	0.000	(6)>1.407	1.407
859.37	0.000	(6)>1.412	1.412
859.40	0.000	(6)>1.418	1.418
859.43	0.000	(6)>1.424	1.424
859.46	0.000	(6)>1.430	1.430
859.49	0.000	(6)>1.436	1.436
859.52	0.000	(6)>1.442	1.442
859.55	0.000	(6)>1.447	1.447
859.58	0.000	(6)>1.453	1.453
859.61	0.000	(6)>1.459	1.459
859.64	0.000	(6)>1.465	1.465
859.67	0.000	(6)>1.471	1.471
859.70	0.000	(6)>1.477	1.477
859.73	0.000	(6)>1.483	1.483
859.76	0.000	(6)>1.488	1.488
859.79	0.000	(6)>1.494	1.494
859.82	0.000	(6)>1.500	1.500
859.85	0.000	(6)>1.506	1.506
859.88	0.000	(6)>1.512	1.512
859.91	0.000	(6)>1.518	1.518
859.94	0.000	(6)>1.523	1.523
859.97	0.000	(6)>1.529	1.529
860.00	0.000	(6)>1.535	1.535
860.03	0.000	(6)>1.541	1.541
860.06	0.000	(6)>1.547	1.547
860.09	0.000	(6)>1.553	1.553
860.12	0.000	(6)>1.559	1.559
860.15	0.000	(6)>1.564	1.564
860.18	0.000	(6)>1.570	1.570
860.21	0.000	(6)>1.576	1.576

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
860.24	0.000	(6)>1.582	1.582
860.27	0.000	(6)>1.588	1.588
860.30	0.000	(6)>1.594	1.594
860.33	0.000	(6)>1.599	1.599
860.36	0.000	(6)>1.604	1.604
860.39	0.000	(6)>1.608	1.608
860.42	0.000	(6)>1.612	1.612
860.45	0.000	(6)>1.617	1.617
860.48	0.000	(6)>1.621	1.621
860.51	0.000	(6)>1.625	1.625
860.54	0.000	(6)>1.629	1.629
860.57	0.000	(6)>1.634	1.634
860.60	0.000	(6)>1.638	1.638
860.63	0.000	(6)>1.642	1.642
860.66	0.000	(6)>1.646	1.646
860.69	0.000	(6)>1.651	1.651
860.72	0.000	(6)>1.655	1.655
860.75	0.000	(6)>1.659	1.659
860.78	0.000	(6)>1.664	1.664
860.81	0.000	(6)>1.668	1.668
860.84	0.000	(6)>1.672	1.672
860.87	0.000	(6)>1.676	1.676
860.90	0.000	(6)>1.681	1.681
860.93	0.000	(6)>1.685	1.685
860.96	0.000	(6)>1.689	1.689
860.99	0.000	(6)>1.693	1.693
861.00	0.000	(6)>1.695	1.695
861.02	0.000	(6)>1.698	1.698
861.05	0.000	(6)>1.702	1.702
861.08	0.000	(6)>1.706	1.706
861.11	0.000	(6)>1.710	1.710
861.14	0.000	(6)>1.715	1.715
861.17	0.000	(6)>1.719	1.719
861.20	0.000	(6)>1.723	1.723
861.23	0.000	(6)>1.728	1.728
861.26	0.000	(6)>1.732	1.732
861.29	0.000	(6)>1.736	1.736
861.32	0.000	(6)>1.740	1.740
861.35	0.000	(6)>1.745	1.745
861.38	0.000	(6)>1.749	1.749

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
861.41	0.000	(6)>1.753	1.753
861.44	0.000	(6)>1.757	1.757
861.47	0.000	(6)>1.762	1.762
861.50	0.000	(6)>1.766	1.766
861.53	0.000	(6)>1.770	1.770
861.56	0.000	(6)>1.774	1.774
861.59	0.000	(6)>1.779	1.779
861.62	0.000	(6)>1.783	1.783
861.65	0.000	(6)>1.787	1.787
861.68	0.000	(6)>1.791	1.791
861.70	0.000	(6)>1.794	1.794
861.71	0.000	(6)>1.796	1.796
861.74	0.000	(6)>1.800	1.800
861.77	0.000	(6)>1.804	1.804
861.80	0.000	(6)>1.809	1.809
861.83	0.000	(6)>1.813	1.813
861.86	0.000	(6)>1.817	1.817
861.89	0.000	(6)>1.821	1.821
861.91	0.000	(6)>1.824	1.824
861.92	0.027	(6)>1.826	1.853
861.95	0.215	(6)>1.830	2.044
861.98	0.496	(6)>1.834	2.331
862.00	0.723	(6)>1.837	2.560
862.01	0.847	(6)>1.838	2.686
862.04	1.256	(6)>1.843	3.098
862.07	1.715	(6)>1.847	3.562
862.10	2.219	(6)>1.851	4.070
862.13	2.764	(6)>1.855	4.620
862.16	3.348	(6)>1.860	5.208
862.19	3.969	(6)>1.864	5.833
862.22	4.623	(6)>1.868	6.492
862.25	5.310	(6)>1.873	7.183
862.28	6.028	(6)>1.877	7.905
862.31	6.776	(6)>1.881	8.657
862.34	7.553	(6)>1.885	9.438
862.37	8.357	(6)>1.890	10.246
862.40	9.187	(6)>1.894	11.081
862.43	10.044	(6)>1.898	11.942
862.46	10.925	(6)>1.902	12.828
862.49	11.831	(6)>1.907	13.738

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
862.52	12.761	(6)>1.911	14.672
862.55	13.714	(6)>1.915	15.629
862.58	14.689	(6)>1.919	16.608
862.61	15.686	(6)>1.924	17.610
862.64	16.705	(6)>1.928	18.633
862.67	17.746	(6)>1.932	19.678
862.70	18.807	(6)>1.936	20.743
862.73	19.888	(6)>1.941	21.829
862.76	20.989	(6)>1.945	22.934
862.79	22.110	(6)>1.949	24.060
862.82	23.250	(6)>1.954	25.204
862.85	24.410	(6)>1.958	26.367
862.88	25.587	(6)>1.962	27.549
862.91	26.783	(6)>1.966	28.750
862.94	27.998	(6)>1.971	29.968
862.97	29.230	(6)>1.975	31.205
863.00	29.859	(6)>1.979	31.838
863.03	30.267	(6)>1.983	32.250
863.06	30.669	(6)>1.988	32.657
863.09	31.067	(6)>1.992	33.059
863.12	31.459	(6)>1.996	33.455
863.15	31.847	(6)>2.000	33.847
863.18	32.230	(6)>2.005	34.234
863.21	32.608	(6)>2.009	34.617
863.24	32.982	(6)>2.013	34.996
863.27	33.352	(6)>2.018	35.370
863.30	33.718	(6)>2.022	35.740
863.33	34.080	(6)>2.026	36.106
863.36	34.438	(6)>2.030	36.468
863.39	34.792	(6)>2.035	36.827
863.42	35.143	(6)>2.039	37.182
863.45	35.491	(6)>2.043	37.534
863.48	35.835	(6)>2.047	37.882
863.51	36.175	(6)>2.052	38.227
863.54	36.513	(6)>2.056	38.569
863.57	36.847	(6)>2.060	38.908
863.60	37.179	(6)>2.064	39.243
863.63	37.507	(6)>2.069	39.576
863.66	37.833	(6)>2.073	39.906
863.69	38.156	(6)>2.077	40.233

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
863.72	38.476	(6)>2.081	40.558
863.75	38.794	(6)>2.086	40.880
863.78	39.109	(6)>2.090	41.199
863.81	39.421	(6)>2.094	41.515
863.84	39.731	(6)>2.099	41.830
863.87	40.039	(6)>2.102	42.141
863.90	40.344	(6)>2.106	42.450
863.93	40.647	(6)>2.109	42.756
863.96	40.948	(6)>2.112	43.060
863.99	41.246	(6)>2.116	43.362
864.00	41.345	(6)>2.117	43.462
864.02	41.543	(6)>2.119	43.662
864.05	41.837	(6)>2.122	43.959
864.08	42.129	(6)>2.126	44.255
864.11	42.419	(6)>2.129	44.548
864.14	42.708	(6)>2.132	44.840
864.17	42.994	(6)>2.136	45.130
864.20	43.278	(6)>2.139	45.417
864.23	43.561	(6)>2.142	45.703
864.26	43.842	(6)>2.146	45.987
864.29	44.121	(6)>2.149	46.270
864.32	44.398	(6)>2.153	46.550
864.35	44.673	(6)>2.156	46.829
864.38	44.947	(6)>2.159	47.106
864.41	45.219	(6)>2.163	47.382
864.44	45.490	(6)>2.166	47.656
864.47	45.759	(6)>2.169	47.928
864.50	46.026	(6)>2.173	48.199
864.53	46.292	(6)>2.176	48.468
864.56	46.556	(6)>2.179	48.735
864.59	46.819	(6)>2.183	49.002
864.62	47.080	(6)>2.186	49.266
864.65	47.340	(6)>2.189	49.529
864.68	47.598	(6)>2.193	49.791
864.71	47.855	(6)>2.196	50.052
864.74	48.111	(6)>2.200	50.311
864.77	48.365	(6)>2.203	50.568
864.80	48.618	(6)>2.206	50.825
864.83	48.870	(6)>2.210	51.080
864.86	49.121	(6)>2.213	51.334

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
864.89	49.370	(6)>2.216	51.586
864.92	49.618	(6)>2.220	51.837
864.95	49.864	(6)>2.223	52.087
864.98	50.110	(6)>2.226	52.336
865.00	50.273	(6)>2.229	52.501

Subwatershed Hydrology Detail:

Stru #	SWS #	SWS Area (ac)	Time of Conc (hrs)	Musk K (hrs)	Musk X	Curve Number	UHS	Peak Discharge (cfs)	Runoff Volume (ac-ft)
#1	1	4.100	0.140	0.000	0.000	61.000	M	0.43	0.020
	2	0.720	0.140	0.000	0.000	74.000	M	0.44	0.017
	3	6.240	0.140	0.000	0.000	98.000	M	15.21	0.750
	4	0.440	0.140	0.000	0.000	98.000	M	1.07	0.053
	Σ	11.500						16.79	0.840

Enova Premier **2019 Expansion**

REVISED 03-06-19

PROPOSED CONDITIONS

TRAILER PARKING EXPANSION

John W. Hunt, PE, PLS

MLH Civil Engineers, PLLC
3320 Clays Mill Road, Suite #208
PO Box 910379
Lexington, KY 40591-0379

Phone: 859-219-1066
Email: john@mlhcivil.com

General Information

Storm Information:

Storm Type:	NRCS Type II
Design Storm:	25 yr - 24 hr
Rainfall Depth:	5.230 inches

Structure Networking:

Type	Stru #	(flows into)	Stru #	Musk. K (hrs)	Musk. X	Description
Pond	#1	==>	End	0.000	0.000	Basin Watershed

#1 Pond

Structure Summary:

		Immediate Contributing Area (ac)	Total Contributing Area (ac)	Peak Discharge (cfs)	Total Runoff Volume (ac-ft)
#1	In	11.500	11.500	25.86	2.80
	Out			7.31	2.80

Structure Detail:

Structure #1 (Pond)

Basin Watershed

Pond Inputs:

Initial Pool Elev:	856.08 ft
Initial Pool:	0.00 ac-ft

Drop Inlet

Riser Diameter (in)	Riser Height (ft)	Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)
33.00	7.03	30.00	47.90	2.17	0.0130	861.91

Straight Pipe

Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)	Entrance Loss Coefficient	Tailwater Depth (ft)
6.50	47.90	2.17	0.0120	856.08	0.50	0.00

Pond Results:

Peak Elevation:	862.26 ft
Dewater Time:	0.56 days

Dewatering time is calculated from peak stage to lowest spillway

Elevation-Capacity-Discharge Table

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.07	0.000	0.000	0.000	
856.08	0.000	0.000	0.000	Spillway #2
856.10	0.000	0.000	0.010	
856.13	0.000	0.000	0.024	
856.16	0.000	0.000	0.038	0.05
856.19	0.001	0.000	0.053	
856.22	0.001	0.000	0.067	
856.25	0.001	0.000	0.081	
856.28	0.001	0.000	0.096	
856.31	0.001	0.000	0.120	
856.34	0.001	0.000	0.148	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.37	0.002	0.000	0.177	
856.40	0.002	0.000	0.205	
856.43	0.002	0.000	0.233	
856.46	0.002	0.000	0.262	
856.49	0.003	0.000	0.290	
856.52	0.003	0.001	0.319	
856.55	0.003	0.001	0.347	
856.58	0.004	0.001	0.375	
856.61	0.004	0.001	0.404	
856.64	0.004	0.001	0.432	0.05
856.67	0.005	0.001	0.461	
856.70	0.005	0.001	0.489	
856.73	0.006	0.001	0.517	
856.76	0.006	0.002	0.546	
856.79	0.006	0.002	0.574	
856.82	0.007	0.002	0.601	
856.85	0.007	0.002	0.617	
856.88	0.008	0.002	0.633	
856.91	0.008	0.003	0.649	
856.94	0.009	0.003	0.665	
856.97	0.009	0.003	0.681	
857.00	0.010	0.003	0.696	0.05
857.03	0.011	0.004	0.712	
857.06	0.012	0.004	0.728	
857.09	0.013	0.005	0.744	
857.12	0.014	0.005	0.760	
857.15	0.015	0.005	0.775	
857.18	0.016	0.006	0.791	
857.21	0.017	0.006	0.807	
857.24	0.018	0.007	0.823	0.05
857.27	0.019	0.007	0.839	
857.30	0.020	0.008	0.854	
857.33	0.022	0.009	0.870	
857.36	0.023	0.009	0.886	
857.39	0.024	0.010	0.902	0.05
857.42	0.026	0.011	0.918	
857.45	0.027	0.012	0.933	
857.48	0.029	0.012	0.949	
857.51	0.030	0.013	0.965	
857.54	0.032	0.014	0.981	0.05
857.57	0.033	0.015	0.997	
857.60	0.035	0.016	1.012	
857.63	0.036	0.017	1.028	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
857.66	0.038	0.018	1.044	0.05
857.69	0.040	0.019	1.060	
857.72	0.041	0.021	1.076	
857.75	0.043	0.022	1.091	
857.78	0.045	0.023	1.103	0.05
857.81	0.047	0.025	1.109	
857.84	0.049	0.026	1.114	
857.87	0.051	0.028	1.120	0.05
857.90	0.053	0.029	1.126	
857.93	0.055	0.031	1.132	
857.96	0.057	0.032	1.138	0.05
857.99	0.059	0.034	1.144	
858.00	0.059	0.035	1.146	
858.02	0.061	0.036	1.149	
858.05	0.062	0.038	1.155	0.05
858.08	0.064	0.040	1.161	
858.11	0.066	0.042	1.167	0.05
858.14	0.068	0.044	1.173	
858.17	0.070	0.046	1.179	
858.20	0.072	0.048	1.185	0.05
858.23	0.074	0.050	1.190	
858.26	0.076	0.052	1.196	0.05
858.29	0.078	0.055	1.202	
858.32	0.080	0.057	1.208	0.05
858.35	0.082	0.059	1.214	
858.38	0.084	0.062	1.220	0.05
858.41	0.086	0.064	1.225	
858.44	0.088	0.067	1.231	0.05
858.47	0.090	0.070	1.237	
858.50	0.093	0.072	1.243	0.05
858.53	0.095	0.075	1.249	
858.56	0.097	0.078	1.255	0.05
858.59	0.099	0.081	1.260	
858.62	0.102	0.084	1.266	0.05
858.65	0.104	0.087	1.272	0.05
858.68	0.106	0.090	1.278	
858.71	0.109	0.094	1.284	0.05
858.74	0.111	0.097	1.290	
858.77	0.113	0.100	1.296	0.05
858.80	0.116	0.104	1.301	0.05
858.83	0.118	0.107	1.307	
858.86	0.121	0.111	1.313	0.05
858.89	0.123	0.114	1.319	0.05

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
858.92	0.126	0.118	1.325	
858.95	0.129	0.122	1.331	0.05
858.98	0.131	0.126	1.336	0.05
859.00	0.133	0.129	1.340	
859.01	0.134	0.130	1.342	0.05
859.04	0.137	0.134	1.348	
859.07	0.140	0.138	1.354	0.05
859.10	0.142	0.142	1.360	0.05
859.13	0.145	0.147	1.366	0.05
859.16	0.148	0.151	1.372	
859.19	0.151	0.155	1.377	0.05
859.22	0.154	0.160	1.383	0.05
859.25	0.157	0.165	1.389	0.05
859.28	0.160	0.169	1.395	0.05
859.31	0.163	0.174	1.401	0.05
859.34	0.166	0.179	1.407	0.05
859.37	0.169	0.184	1.412	0.05
859.40	0.172	0.189	1.418	0.05
859.43	0.176	0.195	1.424	0.05
859.46	0.179	0.200	1.430	0.10
859.49	0.182	0.205	1.436	0.05
859.52	0.185	0.211	1.442	0.05
859.55	0.188	0.216	1.447	0.10
859.58	0.192	0.222	1.453	0.05
859.61	0.195	0.228	1.459	0.10
859.64	0.198	0.234	1.465	0.05
859.67	0.202	0.240	1.471	0.10
859.70	0.205	0.246	1.477	0.05
859.73	0.209	0.252	1.483	0.10
859.76	0.212	0.259	1.488	0.05
859.79	0.216	0.265	1.494	0.10
859.82	0.219	0.271	1.500	0.10
859.85	0.223	0.278	1.506	0.05
859.88	0.226	0.285	1.512	0.10
859.91	0.230	0.292	1.518	0.05
859.94	0.234	0.299	1.523	0.10
859.97	0.237	0.306	1.529	0.10
860.00	0.241	0.313	1.535	0.05
860.03	0.244	0.320	1.541	0.10
860.06	0.246	0.327	1.547	0.10
860.09	0.249	0.335	1.553	0.10
860.12	0.252	0.342	1.559	0.05
860.15	0.254	0.350	1.564	0.10

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
860.18	0.257	0.358	1.570	0.10
860.21	0.260	0.365	1.576	0.05
860.24	0.262	0.373	1.582	0.10
860.27	0.265	0.381	1.588	0.10
860.30	0.268	0.389	1.594	0.10
860.33	0.271	0.397	1.599	0.10
860.36	0.273	0.405	1.604	0.05
860.39	0.276	0.414	1.608	0.10
860.42	0.279	0.422	1.612	0.10
860.45	0.282	0.430	1.617	0.10
860.48	0.285	0.439	1.621	0.10
860.51	0.287	0.447	1.625	0.05
860.54	0.290	0.456	1.629	0.10
860.57	0.293	0.465	1.634	0.10
860.60	0.296	0.474	1.638	0.10
860.63	0.299	0.483	1.642	0.10
860.66	0.302	0.492	1.646	0.10
860.69	0.305	0.501	1.651	0.10
860.72	0.308	0.510	1.655	0.10
860.75	0.311	0.519	1.659	0.10
860.78	0.314	0.529	1.664	0.10
860.81	0.317	0.538	1.668	0.10
860.84	0.320	0.548	1.672	0.10
860.87	0.323	0.557	1.676	0.10
860.90	0.326	0.567	1.681	0.10
860.93	0.329	0.577	1.685	0.10
860.96	0.332	0.587	1.689	0.10
860.99	0.335	0.597	1.693	0.15
861.00	0.336	0.600	1.695	
861.02	0.338	0.607	1.698	0.10
861.05	0.340	0.617	1.702	0.10
861.08	0.343	0.627	1.706	0.10
861.11	0.345	0.638	1.710	0.15
861.14	0.348	0.648	1.715	0.10
861.17	0.350	0.658	1.719	0.15
861.20	0.353	0.669	1.723	0.10
861.23	0.355	0.680	1.728	0.10
861.26	0.358	0.690	1.732	0.15
861.29	0.360	0.701	1.736	0.10
861.32	0.363	0.712	1.740	0.15
861.35	0.365	0.723	1.745	0.10
861.38	0.368	0.734	1.749	0.15
861.41	0.370	0.745	1.753	0.15

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)	
861.44	0.373	0.756	1.757	0.15	
861.47	0.376	0.767	1.762	0.10	
861.50	0.378	0.779	1.766	0.15	
861.53	0.381	0.790	1.770	0.15	
861.56	0.383	0.801	1.774	0.20	
861.59	0.386	0.813	1.779	0.15	
861.62	0.389	0.825	1.783	0.15	
861.65	0.391	0.836	1.787	0.20	
861.68	0.394	0.848	1.791	0.15	
861.70	0.396	0.856	1.794	0.10	
861.71	0.397	0.860	1.796	0.10	
861.74	0.399	0.872	1.800	0.15	
861.77	0.402	0.884	1.804	0.20	
861.80	0.405	0.896	1.809	0.20	
861.83	0.408	0.908	1.813	0.20	
861.86	0.410	0.920	1.817	0.25	
861.89	0.413	0.933	1.821	0.30	
861.91	0.415	0.941	1.824	0.20	Spillway #1
861.92	0.416	0.945	1.853	0.15	
861.95	0.418	0.958	2.044	0.30	
861.98	0.421	0.970	2.331	0.35	
862.00	0.423	0.979	2.560	0.15	
862.01	0.424	0.983	2.686	0.10	
862.04	0.427	0.996	3.098	0.20	
862.07	0.431	1.009	3.562	0.15	
862.10	0.434	1.022	4.070	0.15	
862.13	0.437	1.035	4.620	0.15	
862.16	0.440	1.048	5.208	0.10	
862.19	0.444	1.061	5.833	0.05	
862.22	0.447	1.074	6.492	0.10	
862.25	0.450	1.088	7.183	0.10	
862.26	0.451	1.090	7.310	0.05	Peak Stage
862.28	0.454	1.101	7.905		
862.31	0.457	1.115	8.657		
862.34	0.461	1.129	9.438		
862.37	0.464	1.143	10.246		
862.40	0.467	1.157	11.081		
862.43	0.471	1.171	11.942		
862.46	0.474	1.185	12.828		
862.49	0.478	1.199	13.738		
862.52	0.481	1.214	14.672		
862.55	0.485	1.228	15.629		
862.58	0.488	1.243	16.608		

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
862.61	0.492	1.257	17.610	
862.64	0.495	1.272	18.633	
862.67	0.499	1.287	19.678	
862.70	0.502	1.302	20.743	
862.73	0.506	1.317	21.829	
862.76	0.509	1.332	22.934	
862.79	0.513	1.348	24.060	
862.82	0.516	1.363	25.204	
862.85	0.520	1.379	26.367	
862.88	0.523	1.394	27.549	
862.91	0.527	1.410	28.750	
862.94	0.531	1.426	29.968	
862.97	0.534	1.442	31.205	
863.00	0.538	1.458	31.838	
863.03	0.541	1.474	32.250	
863.06	0.544	1.491	32.657	
863.09	0.547	1.507	33.059	
863.12	0.550	1.523	33.455	
863.15	0.553	1.540	33.847	
863.18	0.556	1.557	34.234	
863.21	0.559	1.573	34.617	
863.24	0.562	1.590	34.996	
863.27	0.565	1.607	35.370	
863.30	0.568	1.624	35.740	
863.33	0.571	1.641	36.106	
863.36	0.574	1.658	36.468	
863.39	0.577	1.676	36.827	
863.42	0.581	1.693	37.182	
863.45	0.584	1.710	37.534	
863.48	0.587	1.728	37.882	
863.51	0.590	1.746	38.227	
863.54	0.593	1.763	38.569	
863.57	0.596	1.781	38.908	
863.60	0.599	1.799	39.243	
863.63	0.602	1.817	39.576	
863.66	0.606	1.835	39.906	
863.69	0.609	1.853	40.233	
863.72	0.612	1.872	40.558	
863.75	0.615	1.890	40.880	
863.78	0.618	1.909	41.199	
863.81	0.622	1.927	41.515	
863.84	0.625	1.946	41.830	
863.87	0.628	1.965	42.141	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
863.90	0.631	1.984	42.450	
863.93	0.634	2.003	42.756	
863.96	0.638	2.022	43.060	
863.99	0.641	2.041	43.362	
864.00	0.642	2.047	43.462	
864.02	0.644	2.060	43.662	
864.05	0.647	2.080	43.959	
864.08	0.650	2.099	44.255	
864.11	0.653	2.119	44.548	
864.14	0.656	2.138	44.840	
864.17	0.659	2.158	45.130	
864.20	0.662	2.178	45.417	
864.23	0.665	2.198	45.703	
864.26	0.668	2.218	45.987	
864.29	0.671	2.238	46.270	
864.32	0.674	2.258	46.550	
864.35	0.677	2.278	46.829	
864.38	0.680	2.298	47.106	
864.41	0.683	2.319	47.382	
864.44	0.686	2.339	47.656	
864.47	0.689	2.360	47.928	
864.50	0.692	2.381	48.199	
864.53	0.695	2.402	48.468	
864.56	0.698	2.422	48.735	
864.59	0.701	2.443	49.002	
864.62	0.704	2.465	49.266	
864.65	0.707	2.486	49.529	
864.68	0.711	2.507	49.791	
864.71	0.714	2.528	50.052	
864.74	0.717	2.550	50.311	
864.77	0.720	2.571	50.568	
864.80	0.723	2.593	50.825	
864.83	0.726	2.615	51.080	
864.86	0.729	2.637	51.334	
864.89	0.732	2.658	51.586	
864.92	0.736	2.680	51.837	
864.95	0.739	2.703	52.087	
864.98	0.742	2.725	52.336	
865.00	0.744	2.740	52.501	

Detailed Discharge Table

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
856.07	0.000	0.000	0.000
856.08	0.000	0.000	0.000
856.10	0.000	0.010	0.010
856.13	0.000	(1)>0.024	0.024
856.16	0.000	(1)>0.038	0.038
856.19	0.000	(2)>0.053	0.053
856.22	0.000	(2)>0.067	0.067
856.25	0.000	(2)>0.081	0.081
856.28	0.000	(3)>0.096	0.096
856.31	0.000	(3)>0.120	0.120
856.34	0.000	(3)>0.148	0.148
856.37	0.000	(3)>0.177	0.177
856.40	0.000	(3)>0.205	0.205
856.43	0.000	(4)>0.233	0.233
856.46	0.000	(4)>0.262	0.262
856.49	0.000	(4)>0.290	0.290
856.52	0.000	(4)>0.319	0.319
856.55	0.000	(4)>0.347	0.347
856.58	0.000	(4)>0.375	0.375
856.61	0.000	(4)>0.404	0.404
856.64	0.000	(4)>0.432	0.432
856.67	0.000	(4)>0.461	0.461
856.70	0.000	(5)>0.489	0.489
856.73	0.000	(5)>0.517	0.517
856.76	0.000	(5)>0.546	0.546
856.79	0.000	(5)>0.574	0.574
856.82	0.000	(5)>0.601	0.601
856.85	0.000	(5)>0.617	0.617
856.88	0.000	(5)>0.633	0.633
856.91	0.000	(5)>0.649	0.649
856.94	0.000	(5)>0.665	0.665
856.97	0.000	(5)>0.681	0.681
857.00	0.000	(5)>0.696	0.696
857.03	0.000	(5)>0.712	0.712
857.06	0.000	(5)>0.728	0.728
857.09	0.000	(5)>0.744	0.744
857.12	0.000	(5)>0.760	0.760
857.15	0.000	(5)>0.775	0.775
857.18	0.000	(5)>0.791	0.791
857.21	0.000	(5)>0.807	0.807
857.24	0.000	(5)>0.823	0.823

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
857.27	0.000	(5)>0.839	0.839
857.30	0.000	(6)>0.854	0.854
857.33	0.000	(6)>0.870	0.870
857.36	0.000	(6)>0.886	0.886
857.39	0.000	(6)>0.902	0.902
857.42	0.000	(6)>0.918	0.918
857.45	0.000	(6)>0.933	0.933
857.48	0.000	(6)>0.949	0.949
857.51	0.000	(6)>0.965	0.965
857.54	0.000	(6)>0.981	0.981
857.57	0.000	(6)>0.997	0.997
857.60	0.000	(6)>1.012	1.012
857.63	0.000	(6)>1.028	1.028
857.66	0.000	(6)>1.044	1.044
857.69	0.000	(6)>1.060	1.060
857.72	0.000	(6)>1.076	1.076
857.75	0.000	(6)>1.091	1.091
857.78	0.000	(6)>1.103	1.103
857.81	0.000	(6)>1.109	1.109
857.84	0.000	(6)>1.114	1.114
857.87	0.000	(6)>1.120	1.120
857.90	0.000	(6)>1.126	1.126
857.93	0.000	(6)>1.132	1.132
857.96	0.000	(6)>1.138	1.138
857.99	0.000	(6)>1.144	1.144
858.00	0.000	(6)>1.146	1.146
858.02	0.000	(6)>1.149	1.149
858.05	0.000	(6)>1.155	1.155
858.08	0.000	(6)>1.161	1.161
858.11	0.000	(6)>1.167	1.167
858.14	0.000	(6)>1.173	1.173
858.17	0.000	(6)>1.179	1.179
858.20	0.000	(6)>1.185	1.185
858.23	0.000	(6)>1.190	1.190
858.26	0.000	(6)>1.196	1.196
858.29	0.000	(6)>1.202	1.202
858.32	0.000	(6)>1.208	1.208
858.35	0.000	(6)>1.214	1.214
858.38	0.000	(6)>1.220	1.220
858.41	0.000	(6)>1.225	1.225
858.44	0.000	(6)>1.231	1.231

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
858.47	0.000	(6)>1.237	1.237
858.50	0.000	(6)>1.243	1.243
858.53	0.000	(6)>1.249	1.249
858.56	0.000	(6)>1.255	1.255
858.59	0.000	(6)>1.260	1.260
858.62	0.000	(6)>1.266	1.266
858.65	0.000	(6)>1.272	1.272
858.68	0.000	(6)>1.278	1.278
858.71	0.000	(6)>1.284	1.284
858.74	0.000	(6)>1.290	1.290
858.77	0.000	(6)>1.296	1.296
858.80	0.000	(6)>1.301	1.301
858.83	0.000	(6)>1.307	1.307
858.86	0.000	(6)>1.313	1.313
858.89	0.000	(6)>1.319	1.319
858.92	0.000	(6)>1.325	1.325
858.95	0.000	(6)>1.331	1.331
858.98	0.000	(6)>1.336	1.336
859.00	0.000	(6)>1.340	1.340
859.01	0.000	(6)>1.342	1.342
859.04	0.000	(6)>1.348	1.348
859.07	0.000	(6)>1.354	1.354
859.10	0.000	(6)>1.360	1.360
859.13	0.000	(6)>1.366	1.366
859.16	0.000	(6)>1.372	1.372
859.19	0.000	(6)>1.377	1.377
859.22	0.000	(6)>1.383	1.383
859.25	0.000	(6)>1.389	1.389
859.28	0.000	(6)>1.395	1.395
859.31	0.000	(6)>1.401	1.401
859.34	0.000	(6)>1.407	1.407
859.37	0.000	(6)>1.412	1.412
859.40	0.000	(6)>1.418	1.418
859.43	0.000	(6)>1.424	1.424
859.46	0.000	(6)>1.430	1.430
859.49	0.000	(6)>1.436	1.436
859.52	0.000	(6)>1.442	1.442
859.55	0.000	(6)>1.447	1.447
859.58	0.000	(6)>1.453	1.453
859.61	0.000	(6)>1.459	1.459
859.64	0.000	(6)>1.465	1.465

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
859.67	0.000	(6)>1.471	1.471
859.70	0.000	(6)>1.477	1.477
859.73	0.000	(6)>1.483	1.483
859.76	0.000	(6)>1.488	1.488
859.79	0.000	(6)>1.494	1.494
859.82	0.000	(6)>1.500	1.500
859.85	0.000	(6)>1.506	1.506
859.88	0.000	(6)>1.512	1.512
859.91	0.000	(6)>1.518	1.518
859.94	0.000	(6)>1.523	1.523
859.97	0.000	(6)>1.529	1.529
860.00	0.000	(6)>1.535	1.535
860.03	0.000	(6)>1.541	1.541
860.06	0.000	(6)>1.547	1.547
860.09	0.000	(6)>1.553	1.553
860.12	0.000	(6)>1.559	1.559
860.15	0.000	(6)>1.564	1.564
860.18	0.000	(6)>1.570	1.570
860.21	0.000	(6)>1.576	1.576
860.24	0.000	(6)>1.582	1.582
860.27	0.000	(6)>1.588	1.588
860.30	0.000	(6)>1.594	1.594
860.33	0.000	(6)>1.599	1.599
860.36	0.000	(6)>1.604	1.604
860.39	0.000	(6)>1.608	1.608
860.42	0.000	(6)>1.612	1.612
860.45	0.000	(6)>1.617	1.617
860.48	0.000	(6)>1.621	1.621
860.51	0.000	(6)>1.625	1.625
860.54	0.000	(6)>1.629	1.629
860.57	0.000	(6)>1.634	1.634
860.60	0.000	(6)>1.638	1.638
860.63	0.000	(6)>1.642	1.642
860.66	0.000	(6)>1.646	1.646
860.69	0.000	(6)>1.651	1.651
860.72	0.000	(6)>1.655	1.655
860.75	0.000	(6)>1.659	1.659
860.78	0.000	(6)>1.664	1.664
860.81	0.000	(6)>1.668	1.668
860.84	0.000	(6)>1.672	1.672
860.87	0.000	(6)>1.676	1.676

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
860.90	0.000	(6)>1.681	1.681
860.93	0.000	(6)>1.685	1.685
860.96	0.000	(6)>1.689	1.689
860.99	0.000	(6)>1.693	1.693
861.00	0.000	(6)>1.695	1.695
861.02	0.000	(6)>1.698	1.698
861.05	0.000	(6)>1.702	1.702
861.08	0.000	(6)>1.706	1.706
861.11	0.000	(6)>1.710	1.710
861.14	0.000	(6)>1.715	1.715
861.17	0.000	(6)>1.719	1.719
861.20	0.000	(6)>1.723	1.723
861.23	0.000	(6)>1.728	1.728
861.26	0.000	(6)>1.732	1.732
861.29	0.000	(6)>1.736	1.736
861.32	0.000	(6)>1.740	1.740
861.35	0.000	(6)>1.745	1.745
861.38	0.000	(6)>1.749	1.749
861.41	0.000	(6)>1.753	1.753
861.44	0.000	(6)>1.757	1.757
861.47	0.000	(6)>1.762	1.762
861.50	0.000	(6)>1.766	1.766
861.53	0.000	(6)>1.770	1.770
861.56	0.000	(6)>1.774	1.774
861.59	0.000	(6)>1.779	1.779
861.62	0.000	(6)>1.783	1.783
861.65	0.000	(6)>1.787	1.787
861.68	0.000	(6)>1.791	1.791
861.70	0.000	(6)>1.794	1.794
861.71	0.000	(6)>1.796	1.796
861.74	0.000	(6)>1.800	1.800
861.77	0.000	(6)>1.804	1.804
861.80	0.000	(6)>1.809	1.809
861.83	0.000	(6)>1.813	1.813
861.86	0.000	(6)>1.817	1.817
861.89	0.000	(6)>1.821	1.821
861.91	0.000	(6)>1.824	1.824
861.92	0.027	(6)>1.826	1.853
861.95	0.215	(6)>1.830	2.044
861.98	0.496	(6)>1.834	2.331
862.00	0.723	(6)>1.837	2.560

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
862.01	0.847	(6)>1.838	2.686
862.04	1.256	(6)>1.843	3.098
862.07	1.715	(6)>1.847	3.562
862.10	2.219	(6)>1.851	4.070
862.13	2.764	(6)>1.855	4.620
862.16	3.348	(6)>1.860	5.208
862.19	3.969	(6)>1.864	5.833
862.22	4.623	(6)>1.868	6.492
862.25	5.310	(6)>1.873	7.183
862.28	6.028	(6)>1.877	7.905
862.31	6.776	(6)>1.881	8.657
862.34	7.553	(6)>1.885	9.438
862.37	8.357	(6)>1.890	10.246
862.40	9.187	(6)>1.894	11.081
862.43	10.044	(6)>1.898	11.942
862.46	10.925	(6)>1.902	12.828
862.49	11.831	(6)>1.907	13.738
862.52	12.761	(6)>1.911	14.672
862.55	13.714	(6)>1.915	15.629
862.58	14.689	(6)>1.919	16.608
862.61	15.686	(6)>1.924	17.610
862.64	16.705	(6)>1.928	18.633
862.67	17.746	(6)>1.932	19.678
862.70	18.807	(6)>1.936	20.743
862.73	19.888	(6)>1.941	21.829
862.76	20.989	(6)>1.945	22.934
862.79	22.110	(6)>1.949	24.060
862.82	23.250	(6)>1.954	25.204
862.85	24.410	(6)>1.958	26.367
862.88	25.587	(6)>1.962	27.549
862.91	26.783	(6)>1.966	28.750
862.94	27.998	(6)>1.971	29.968
862.97	29.230	(6)>1.975	31.205
863.00	29.859	(6)>1.979	31.838
863.03	30.267	(6)>1.983	32.250
863.06	30.669	(6)>1.988	32.657
863.09	31.067	(6)>1.992	33.059
863.12	31.459	(6)>1.996	33.455
863.15	31.847	(6)>2.000	33.847
863.18	32.230	(6)>2.005	34.234
863.21	32.608	(6)>2.009	34.617

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
863.24	32.982	(6)>2.013	34.996
863.27	33.352	(6)>2.018	35.370
863.30	33.718	(6)>2.022	35.740
863.33	34.080	(6)>2.026	36.106
863.36	34.438	(6)>2.030	36.468
863.39	34.792	(6)>2.035	36.827
863.42	35.143	(6)>2.039	37.182
863.45	35.491	(6)>2.043	37.534
863.48	35.835	(6)>2.047	37.882
863.51	36.175	(6)>2.052	38.227
863.54	36.513	(6)>2.056	38.569
863.57	36.847	(6)>2.060	38.908
863.60	37.179	(6)>2.064	39.243
863.63	37.507	(6)>2.069	39.576
863.66	37.833	(6)>2.073	39.906
863.69	38.156	(6)>2.077	40.233
863.72	38.476	(6)>2.081	40.558
863.75	38.794	(6)>2.086	40.880
863.78	39.109	(6)>2.090	41.199
863.81	39.421	(6)>2.094	41.515
863.84	39.731	(6)>2.099	41.830
863.87	40.039	(6)>2.102	42.141
863.90	40.344	(6)>2.106	42.450
863.93	40.647	(6)>2.109	42.756
863.96	40.948	(6)>2.112	43.060
863.99	41.246	(6)>2.116	43.362
864.00	41.345	(6)>2.117	43.462
864.02	41.543	(6)>2.119	43.662
864.05	41.837	(6)>2.122	43.959
864.08	42.129	(6)>2.126	44.255
864.11	42.419	(6)>2.129	44.548
864.14	42.708	(6)>2.132	44.840
864.17	42.994	(6)>2.136	45.130
864.20	43.278	(6)>2.139	45.417
864.23	43.561	(6)>2.142	45.703
864.26	43.842	(6)>2.146	45.987
864.29	44.121	(6)>2.149	46.270
864.32	44.398	(6)>2.153	46.550
864.35	44.673	(6)>2.156	46.829
864.38	44.947	(6)>2.159	47.106
864.41	45.219	(6)>2.163	47.382

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
864.44	45.490	(6)>2.166	47.656
864.47	45.759	(6)>2.169	47.928
864.50	46.026	(6)>2.173	48.199
864.53	46.292	(6)>2.176	48.468
864.56	46.556	(6)>2.179	48.735
864.59	46.819	(6)>2.183	49.002
864.62	47.080	(6)>2.186	49.266
864.65	47.340	(6)>2.189	49.529
864.68	47.598	(6)>2.193	49.791
864.71	47.855	(6)>2.196	50.052
864.74	48.111	(6)>2.200	50.311
864.77	48.365	(6)>2.203	50.568
864.80	48.618	(6)>2.206	50.825
864.83	48.870	(6)>2.210	51.080
864.86	49.121	(6)>2.213	51.334
864.89	49.370	(6)>2.216	51.586
864.92	49.618	(6)>2.220	51.837
864.95	49.864	(6)>2.223	52.087
864.98	50.110	(6)>2.226	52.336
865.00	50.273	(6)>2.229	52.501

Subwatershed Hydrology Detail:

Stru #	SWS #	SWS Area (ac)	Time of Conc (hrs)	Musk K (hrs)	Musk X	Curve Number	UHS	Peak Discharge (cfs)	Runoff Volume (ac-ft)
#1	1	4.100	0.140	0.000	0.000	61.000	M	4.39	0.419
	2	0.720	0.140	0.000	0.000	74.000	M	1.32	0.124
	3	6.240	0.140	0.000	0.000	98.000	M	18.98	2.110
	4	0.440	0.140	0.000	0.000	98.000	M	1.34	0.148
	Σ	11.500						25.86	2.801

Enova Premier **2019 Expansion**

REVISED 03-06-19

PROPOSED CONDITIONS

TRAILER PARKING EXPANSION

John W. Hunt, PE, PLS

MLH Civil Engineers, PLLC
3320 Clays Mill Road, Suite #208
PO Box 910379
Lexington, KY 40591-0379

Phone: 859-219-1066
Email: john@mlhcivil.com

General Information

Storm Information:

Storm Type:	NRCS Type II
Design Storm:	100 yr - 1 hr
Rainfall Depth:	2.900 inches

Structure Networking:

Type	Stru #	(flows into)	Stru #	Musk. K (hrs)	Musk. X	Description
Pond	#1	==>	End	0.000	0.000	Basin Watershed

#1 <i>Pond</i>

Structure Summary:

		Immediate Contributing Area (ac)	Total Contributing Area (ac)	Peak Discharge (cfs)	Total Runoff Volume (ac-ft)
#1	In	11.500	11.500	26.81	1.34
	Out			6.01	1.34

Structure Detail:

Structure #1 (Pond)

Basin Watershed

Pond Inputs:

Initial Pool Elev:	856.08 ft
Initial Pool:	0.00 ac-ft

Drop Inlet

Riser Diameter (in)	Riser Height (ft)	Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)
33.00	7.03	30.00	47.90	2.17	0.0130	861.91

Straight Pipe

Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)	Entrance Loss Coefficient	Tailwater Depth (ft)
6.50	47.90	2.17	0.0120	856.08	0.50	0.00

Pond Results:

Peak Elevation:	862.20 ft
Dewater Time:	0.34 days

Dewatering time is calculated from peak stage to lowest spillway

Elevation-Capacity-Discharge Table

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.07	0.000	0.000	0.000	
856.08	0.000	0.000	0.000	Spillway #2
856.10	0.000	0.000	0.010	
856.13	0.000	0.000	0.024	
856.16	0.000	0.000	0.038	
856.19	0.001	0.000	0.053	
856.22	0.001	0.000	0.067	
856.25	0.001	0.000	0.081	
856.28	0.001	0.000	0.096	
856.31	0.001	0.000	0.120	
856.34	0.001	0.000	0.148	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.37	0.002	0.000	0.177	
856.40	0.002	0.000	0.205	
856.43	0.002	0.000	0.233	0.05
856.46	0.002	0.000	0.262	
856.49	0.003	0.000	0.290	
856.52	0.003	0.001	0.319	
856.55	0.003	0.001	0.347	
856.58	0.004	0.001	0.375	
856.61	0.004	0.001	0.404	
856.64	0.004	0.001	0.432	
856.67	0.005	0.001	0.461	
856.70	0.005	0.001	0.489	
856.73	0.006	0.001	0.517	
856.76	0.006	0.002	0.546	
856.79	0.006	0.002	0.574	
856.82	0.007	0.002	0.601	0.05
856.85	0.007	0.002	0.617	
856.88	0.008	0.002	0.633	
856.91	0.008	0.003	0.649	
856.94	0.009	0.003	0.665	
856.97	0.009	0.003	0.681	
857.00	0.010	0.003	0.696	
857.03	0.011	0.004	0.712	
857.06	0.012	0.004	0.728	
857.09	0.013	0.005	0.744	
857.12	0.014	0.005	0.760	0.05
857.15	0.015	0.005	0.775	
857.18	0.016	0.006	0.791	
857.21	0.017	0.006	0.807	
857.24	0.018	0.007	0.823	
857.27	0.019	0.007	0.839	
857.30	0.020	0.008	0.854	
857.33	0.022	0.009	0.870	0.05
857.36	0.023	0.009	0.886	
857.39	0.024	0.010	0.902	
857.42	0.026	0.011	0.918	
857.45	0.027	0.012	0.933	
857.48	0.029	0.012	0.949	0.05
857.51	0.030	0.013	0.965	
857.54	0.032	0.014	0.981	
857.57	0.033	0.015	0.997	
857.60	0.035	0.016	1.012	0.05
857.63	0.036	0.017	1.028	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
857.66	0.038	0.018	1.044	
857.69	0.040	0.019	1.060	
857.72	0.041	0.021	1.076	0.05
857.75	0.043	0.022	1.091	
857.78	0.045	0.023	1.103	
857.81	0.047	0.025	1.109	0.05
857.84	0.049	0.026	1.114	
857.87	0.051	0.028	1.120	
857.90	0.053	0.029	1.126	0.05
857.93	0.055	0.031	1.132	
857.96	0.057	0.032	1.138	
857.99	0.059	0.034	1.144	0.05
858.00	0.059	0.035	1.146	
858.02	0.061	0.036	1.149	
858.05	0.062	0.038	1.155	
858.08	0.064	0.040	1.161	0.05
858.11	0.066	0.042	1.167	
858.14	0.068	0.044	1.173	0.05
858.17	0.070	0.046	1.179	
858.20	0.072	0.048	1.185	
858.23	0.074	0.050	1.190	0.05
858.26	0.076	0.052	1.196	
858.29	0.078	0.055	1.202	0.05
858.32	0.080	0.057	1.208	
858.35	0.082	0.059	1.214	0.05
858.38	0.084	0.062	1.220	
858.41	0.086	0.064	1.225	0.05
858.44	0.088	0.067	1.231	
858.47	0.090	0.070	1.237	0.05
858.50	0.093	0.072	1.243	
858.53	0.095	0.075	1.249	0.05
858.56	0.097	0.078	1.255	
858.59	0.099	0.081	1.260	0.05
858.62	0.102	0.084	1.266	0.05
858.65	0.104	0.087	1.272	
858.68	0.106	0.090	1.278	0.05
858.71	0.109	0.094	1.284	
858.74	0.111	0.097	1.290	0.05
858.77	0.113	0.100	1.296	0.05
858.80	0.116	0.104	1.301	
858.83	0.118	0.107	1.307	0.05
858.86	0.121	0.111	1.313	0.05
858.89	0.123	0.114	1.319	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
858.92	0.126	0.118	1.325	0.05
858.95	0.129	0.122	1.331	0.05
858.98	0.131	0.126	1.336	
859.00	0.133	0.129	1.340	0.05
859.01	0.134	0.130	1.342	
859.04	0.137	0.134	1.348	0.05
859.07	0.140	0.138	1.354	0.05
859.10	0.142	0.142	1.360	
859.13	0.145	0.147	1.366	0.05
859.16	0.148	0.151	1.372	0.05
859.19	0.151	0.155	1.377	0.05
859.22	0.154	0.160	1.383	
859.25	0.157	0.165	1.389	0.05
859.28	0.160	0.169	1.395	0.05
859.31	0.163	0.174	1.401	0.05
859.34	0.166	0.179	1.407	0.05
859.37	0.169	0.184	1.412	0.05
859.40	0.172	0.189	1.418	
859.43	0.176	0.195	1.424	0.05
859.46	0.179	0.200	1.430	0.05
859.49	0.182	0.205	1.436	0.05
859.52	0.185	0.211	1.442	0.05
859.55	0.188	0.216	1.447	0.05
859.58	0.192	0.222	1.453	0.05
859.61	0.195	0.228	1.459	0.05
859.64	0.198	0.234	1.465	0.05
859.67	0.202	0.240	1.471	0.05
859.70	0.205	0.246	1.477	0.05
859.73	0.209	0.252	1.483	0.05
859.76	0.212	0.259	1.488	0.05
859.79	0.216	0.265	1.494	0.05
859.82	0.219	0.271	1.500	0.05
859.85	0.223	0.278	1.506	0.05
859.88	0.226	0.285	1.512	0.05
859.91	0.230	0.292	1.518	0.05
859.94	0.234	0.299	1.523	0.05
859.97	0.237	0.306	1.529	0.10
860.00	0.241	0.313	1.535	0.05
860.03	0.244	0.320	1.541	0.05
860.06	0.246	0.327	1.547	0.05
860.09	0.249	0.335	1.553	0.05
860.12	0.252	0.342	1.559	0.05
860.15	0.254	0.350	1.564	0.05

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
860.18	0.257	0.358	1.570	0.10
860.21	0.260	0.365	1.576	0.05
860.24	0.262	0.373	1.582	0.05
860.27	0.265	0.381	1.588	0.05
860.30	0.268	0.389	1.594	0.05
860.33	0.271	0.397	1.599	0.10
860.36	0.273	0.405	1.604	0.05
860.39	0.276	0.414	1.608	0.05
860.42	0.279	0.422	1.612	0.05
860.45	0.282	0.430	1.617	0.10
860.48	0.285	0.439	1.621	0.05
860.51	0.287	0.447	1.625	0.05
860.54	0.290	0.456	1.629	0.10
860.57	0.293	0.465	1.634	0.05
860.60	0.296	0.474	1.638	0.05
860.63	0.299	0.483	1.642	0.05
860.66	0.302	0.492	1.646	0.10
860.69	0.305	0.501	1.651	0.05
860.72	0.308	0.510	1.655	0.05
860.75	0.311	0.519	1.659	0.10
860.78	0.314	0.529	1.664	0.05
860.81	0.317	0.538	1.668	0.10
860.84	0.320	0.548	1.672	0.05
860.87	0.323	0.557	1.676	0.05
860.90	0.326	0.567	1.681	0.10
860.93	0.329	0.577	1.685	0.05
860.96	0.332	0.587	1.689	0.10
860.99	0.335	0.597	1.693	0.05
861.00	0.336	0.600	1.695	
861.02	0.338	0.607	1.698	0.05
861.05	0.340	0.617	1.702	0.10
861.08	0.343	0.627	1.706	0.05
861.11	0.345	0.638	1.710	0.10
861.14	0.348	0.648	1.715	0.05
861.17	0.350	0.658	1.719	0.10
861.20	0.353	0.669	1.723	0.05
861.23	0.355	0.680	1.728	0.10
861.26	0.358	0.690	1.732	0.05
861.29	0.360	0.701	1.736	0.10
861.32	0.363	0.712	1.740	0.05
861.35	0.365	0.723	1.745	0.10
861.38	0.368	0.734	1.749	0.05
861.41	0.370	0.745	1.753	0.10

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)	
861.44	0.373	0.756	1.757	0.05	
861.47	0.376	0.767	1.762	0.10	
861.50	0.378	0.779	1.766	0.05	
861.53	0.381	0.790	1.770	0.10	
861.56	0.383	0.801	1.774	0.10	
861.59	0.386	0.813	1.779	0.05	
861.62	0.389	0.825	1.783	0.10	
861.65	0.391	0.836	1.787	0.05	
861.68	0.394	0.848	1.791	0.10	
861.70	0.396	0.856	1.794	0.05	
861.71	0.397	0.860	1.796		
861.74	0.399	0.872	1.800	0.10	
861.77	0.402	0.884	1.804	0.10	
861.80	0.405	0.896	1.809	0.05	
861.83	0.408	0.908	1.813	0.10	
861.86	0.410	0.920	1.817	0.10	
861.89	0.413	0.933	1.821	0.05	
861.91	0.415	0.941	1.824	0.05	Spillway #1
861.92	0.416	0.945	1.853	0.05	
861.95	0.418	0.958	2.044	0.10	
861.98	0.421	0.970	2.331	0.05	
862.00	0.423	0.979	2.560	0.05	
862.01	0.424	0.983	2.686	0.05	
862.04	0.427	0.996	3.098	0.05	
862.07	0.431	1.009	3.562	0.05	
862.10	0.434	1.022	4.070	0.05	
862.13	0.437	1.035	4.620	0.05	
862.16	0.440	1.048	5.208	0.05	
862.19	0.444	1.061	5.833		
862.20	0.445	1.065	6.010	0.10	Peak Stage
862.22	0.447	1.074	6.492		
862.25	0.450	1.088	7.183		
862.28	0.454	1.101	7.905		
862.31	0.457	1.115	8.657		
862.34	0.461	1.129	9.438		
862.37	0.464	1.143	10.246		
862.40	0.467	1.157	11.081		
862.43	0.471	1.171	11.942		
862.46	0.474	1.185	12.828		
862.49	0.478	1.199	13.738		
862.52	0.481	1.214	14.672		
862.55	0.485	1.228	15.629		
862.58	0.488	1.243	16.608		

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
862.61	0.492	1.257	17.610	
862.64	0.495	1.272	18.633	
862.67	0.499	1.287	19.678	
862.70	0.502	1.302	20.743	
862.73	0.506	1.317	21.829	
862.76	0.509	1.332	22.934	
862.79	0.513	1.348	24.060	
862.82	0.516	1.363	25.204	
862.85	0.520	1.379	26.367	
862.88	0.523	1.394	27.549	
862.91	0.527	1.410	28.750	
862.94	0.531	1.426	29.968	
862.97	0.534	1.442	31.205	
863.00	0.538	1.458	31.838	
863.03	0.541	1.474	32.250	
863.06	0.544	1.491	32.657	
863.09	0.547	1.507	33.059	
863.12	0.550	1.523	33.455	
863.15	0.553	1.540	33.847	
863.18	0.556	1.557	34.234	
863.21	0.559	1.573	34.617	
863.24	0.562	1.590	34.996	
863.27	0.565	1.607	35.370	
863.30	0.568	1.624	35.740	
863.33	0.571	1.641	36.106	
863.36	0.574	1.658	36.468	
863.39	0.577	1.676	36.827	
863.42	0.581	1.693	37.182	
863.45	0.584	1.710	37.534	
863.48	0.587	1.728	37.882	
863.51	0.590	1.746	38.227	
863.54	0.593	1.763	38.569	
863.57	0.596	1.781	38.908	
863.60	0.599	1.799	39.243	
863.63	0.602	1.817	39.576	
863.66	0.606	1.835	39.906	
863.69	0.609	1.853	40.233	
863.72	0.612	1.872	40.558	
863.75	0.615	1.890	40.880	
863.78	0.618	1.909	41.199	
863.81	0.622	1.927	41.515	
863.84	0.625	1.946	41.830	
863.87	0.628	1.965	42.141	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
863.90	0.631	1.984	42.450	
863.93	0.634	2.003	42.756	
863.96	0.638	2.022	43.060	
863.99	0.641	2.041	43.362	
864.00	0.642	2.047	43.462	
864.02	0.644	2.060	43.662	
864.05	0.647	2.080	43.959	
864.08	0.650	2.099	44.255	
864.11	0.653	2.119	44.548	
864.14	0.656	2.138	44.840	
864.17	0.659	2.158	45.130	
864.20	0.662	2.178	45.417	
864.23	0.665	2.198	45.703	
864.26	0.668	2.218	45.987	
864.29	0.671	2.238	46.270	
864.32	0.674	2.258	46.550	
864.35	0.677	2.278	46.829	
864.38	0.680	2.298	47.106	
864.41	0.683	2.319	47.382	
864.44	0.686	2.339	47.656	
864.47	0.689	2.360	47.928	
864.50	0.692	2.381	48.199	
864.53	0.695	2.402	48.468	
864.56	0.698	2.422	48.735	
864.59	0.701	2.443	49.002	
864.62	0.704	2.465	49.266	
864.65	0.707	2.486	49.529	
864.68	0.711	2.507	49.791	
864.71	0.714	2.528	50.052	
864.74	0.717	2.550	50.311	
864.77	0.720	2.571	50.568	
864.80	0.723	2.593	50.825	
864.83	0.726	2.615	51.080	
864.86	0.729	2.637	51.334	
864.89	0.732	2.658	51.586	
864.92	0.736	2.680	51.837	
864.95	0.739	2.703	52.087	
864.98	0.742	2.725	52.336	
865.00	0.744	2.740	52.501	

Detailed Discharge Table

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
856.07	0.000	0.000	0.000
856.08	0.000	0.000	0.000
856.10	0.000	0.010	0.010
856.13	0.000	(1)>0.024	0.024
856.16	0.000	(1)>0.038	0.038
856.19	0.000	(2)>0.053	0.053
856.22	0.000	(2)>0.067	0.067
856.25	0.000	(2)>0.081	0.081
856.28	0.000	(3)>0.096	0.096
856.31	0.000	(3)>0.120	0.120
856.34	0.000	(3)>0.148	0.148
856.37	0.000	(3)>0.177	0.177
856.40	0.000	(3)>0.205	0.205
856.43	0.000	(4)>0.233	0.233
856.46	0.000	(4)>0.262	0.262
856.49	0.000	(4)>0.290	0.290
856.52	0.000	(4)>0.319	0.319
856.55	0.000	(4)>0.347	0.347
856.58	0.000	(4)>0.375	0.375
856.61	0.000	(4)>0.404	0.404
856.64	0.000	(4)>0.432	0.432
856.67	0.000	(4)>0.461	0.461
856.70	0.000	(5)>0.489	0.489
856.73	0.000	(5)>0.517	0.517
856.76	0.000	(5)>0.546	0.546
856.79	0.000	(5)>0.574	0.574
856.82	0.000	(5)>0.601	0.601
856.85	0.000	(5)>0.617	0.617
856.88	0.000	(5)>0.633	0.633
856.91	0.000	(5)>0.649	0.649
856.94	0.000	(5)>0.665	0.665
856.97	0.000	(5)>0.681	0.681
857.00	0.000	(5)>0.696	0.696
857.03	0.000	(5)>0.712	0.712
857.06	0.000	(5)>0.728	0.728
857.09	0.000	(5)>0.744	0.744
857.12	0.000	(5)>0.760	0.760
857.15	0.000	(5)>0.775	0.775
857.18	0.000	(5)>0.791	0.791
857.21	0.000	(5)>0.807	0.807
857.24	0.000	(5)>0.823	0.823

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
857.27	0.000	(5)>0.839	0.839
857.30	0.000	(6)>0.854	0.854
857.33	0.000	(6)>0.870	0.870
857.36	0.000	(6)>0.886	0.886
857.39	0.000	(6)>0.902	0.902
857.42	0.000	(6)>0.918	0.918
857.45	0.000	(6)>0.933	0.933
857.48	0.000	(6)>0.949	0.949
857.51	0.000	(6)>0.965	0.965
857.54	0.000	(6)>0.981	0.981
857.57	0.000	(6)>0.997	0.997
857.60	0.000	(6)>1.012	1.012
857.63	0.000	(6)>1.028	1.028
857.66	0.000	(6)>1.044	1.044
857.69	0.000	(6)>1.060	1.060
857.72	0.000	(6)>1.076	1.076
857.75	0.000	(6)>1.091	1.091
857.78	0.000	(6)>1.103	1.103
857.81	0.000	(6)>1.109	1.109
857.84	0.000	(6)>1.114	1.114
857.87	0.000	(6)>1.120	1.120
857.90	0.000	(6)>1.126	1.126
857.93	0.000	(6)>1.132	1.132
857.96	0.000	(6)>1.138	1.138
857.99	0.000	(6)>1.144	1.144
858.00	0.000	(6)>1.146	1.146
858.02	0.000	(6)>1.149	1.149
858.05	0.000	(6)>1.155	1.155
858.08	0.000	(6)>1.161	1.161
858.11	0.000	(6)>1.167	1.167
858.14	0.000	(6)>1.173	1.173
858.17	0.000	(6)>1.179	1.179
858.20	0.000	(6)>1.185	1.185
858.23	0.000	(6)>1.190	1.190
858.26	0.000	(6)>1.196	1.196
858.29	0.000	(6)>1.202	1.202
858.32	0.000	(6)>1.208	1.208
858.35	0.000	(6)>1.214	1.214
858.38	0.000	(6)>1.220	1.220
858.41	0.000	(6)>1.225	1.225
858.44	0.000	(6)>1.231	1.231

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
858.47	0.000	(6)>1.237	1.237
858.50	0.000	(6)>1.243	1.243
858.53	0.000	(6)>1.249	1.249
858.56	0.000	(6)>1.255	1.255
858.59	0.000	(6)>1.260	1.260
858.62	0.000	(6)>1.266	1.266
858.65	0.000	(6)>1.272	1.272
858.68	0.000	(6)>1.278	1.278
858.71	0.000	(6)>1.284	1.284
858.74	0.000	(6)>1.290	1.290
858.77	0.000	(6)>1.296	1.296
858.80	0.000	(6)>1.301	1.301
858.83	0.000	(6)>1.307	1.307
858.86	0.000	(6)>1.313	1.313
858.89	0.000	(6)>1.319	1.319
858.92	0.000	(6)>1.325	1.325
858.95	0.000	(6)>1.331	1.331
858.98	0.000	(6)>1.336	1.336
859.00	0.000	(6)>1.340	1.340
859.01	0.000	(6)>1.342	1.342
859.04	0.000	(6)>1.348	1.348
859.07	0.000	(6)>1.354	1.354
859.10	0.000	(6)>1.360	1.360
859.13	0.000	(6)>1.366	1.366
859.16	0.000	(6)>1.372	1.372
859.19	0.000	(6)>1.377	1.377
859.22	0.000	(6)>1.383	1.383
859.25	0.000	(6)>1.389	1.389
859.28	0.000	(6)>1.395	1.395
859.31	0.000	(6)>1.401	1.401
859.34	0.000	(6)>1.407	1.407
859.37	0.000	(6)>1.412	1.412
859.40	0.000	(6)>1.418	1.418
859.43	0.000	(6)>1.424	1.424
859.46	0.000	(6)>1.430	1.430
859.49	0.000	(6)>1.436	1.436
859.52	0.000	(6)>1.442	1.442
859.55	0.000	(6)>1.447	1.447
859.58	0.000	(6)>1.453	1.453
859.61	0.000	(6)>1.459	1.459
859.64	0.000	(6)>1.465	1.465

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
859.67	0.000	(6)>1.471	1.471
859.70	0.000	(6)>1.477	1.477
859.73	0.000	(6)>1.483	1.483
859.76	0.000	(6)>1.488	1.488
859.79	0.000	(6)>1.494	1.494
859.82	0.000	(6)>1.500	1.500
859.85	0.000	(6)>1.506	1.506
859.88	0.000	(6)>1.512	1.512
859.91	0.000	(6)>1.518	1.518
859.94	0.000	(6)>1.523	1.523
859.97	0.000	(6)>1.529	1.529
860.00	0.000	(6)>1.535	1.535
860.03	0.000	(6)>1.541	1.541
860.06	0.000	(6)>1.547	1.547
860.09	0.000	(6)>1.553	1.553
860.12	0.000	(6)>1.559	1.559
860.15	0.000	(6)>1.564	1.564
860.18	0.000	(6)>1.570	1.570
860.21	0.000	(6)>1.576	1.576
860.24	0.000	(6)>1.582	1.582
860.27	0.000	(6)>1.588	1.588
860.30	0.000	(6)>1.594	1.594
860.33	0.000	(6)>1.599	1.599
860.36	0.000	(6)>1.604	1.604
860.39	0.000	(6)>1.608	1.608
860.42	0.000	(6)>1.612	1.612
860.45	0.000	(6)>1.617	1.617
860.48	0.000	(6)>1.621	1.621
860.51	0.000	(6)>1.625	1.625
860.54	0.000	(6)>1.629	1.629
860.57	0.000	(6)>1.634	1.634
860.60	0.000	(6)>1.638	1.638
860.63	0.000	(6)>1.642	1.642
860.66	0.000	(6)>1.646	1.646
860.69	0.000	(6)>1.651	1.651
860.72	0.000	(6)>1.655	1.655
860.75	0.000	(6)>1.659	1.659
860.78	0.000	(6)>1.664	1.664
860.81	0.000	(6)>1.668	1.668
860.84	0.000	(6)>1.672	1.672
860.87	0.000	(6)>1.676	1.676

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
860.90	0.000	(6)>1.681	1.681
860.93	0.000	(6)>1.685	1.685
860.96	0.000	(6)>1.689	1.689
860.99	0.000	(6)>1.693	1.693
861.00	0.000	(6)>1.695	1.695
861.02	0.000	(6)>1.698	1.698
861.05	0.000	(6)>1.702	1.702
861.08	0.000	(6)>1.706	1.706
861.11	0.000	(6)>1.710	1.710
861.14	0.000	(6)>1.715	1.715
861.17	0.000	(6)>1.719	1.719
861.20	0.000	(6)>1.723	1.723
861.23	0.000	(6)>1.728	1.728
861.26	0.000	(6)>1.732	1.732
861.29	0.000	(6)>1.736	1.736
861.32	0.000	(6)>1.740	1.740
861.35	0.000	(6)>1.745	1.745
861.38	0.000	(6)>1.749	1.749
861.41	0.000	(6)>1.753	1.753
861.44	0.000	(6)>1.757	1.757
861.47	0.000	(6)>1.762	1.762
861.50	0.000	(6)>1.766	1.766
861.53	0.000	(6)>1.770	1.770
861.56	0.000	(6)>1.774	1.774
861.59	0.000	(6)>1.779	1.779
861.62	0.000	(6)>1.783	1.783
861.65	0.000	(6)>1.787	1.787
861.68	0.000	(6)>1.791	1.791
861.70	0.000	(6)>1.794	1.794
861.71	0.000	(6)>1.796	1.796
861.74	0.000	(6)>1.800	1.800
861.77	0.000	(6)>1.804	1.804
861.80	0.000	(6)>1.809	1.809
861.83	0.000	(6)>1.813	1.813
861.86	0.000	(6)>1.817	1.817
861.89	0.000	(6)>1.821	1.821
861.91	0.000	(6)>1.824	1.824
861.92	0.027	(6)>1.826	1.853
861.95	0.215	(6)>1.830	2.044
861.98	0.496	(6)>1.834	2.331
862.00	0.723	(6)>1.837	2.560

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
862.01	0.847	(6)>1.838	2.686
862.04	1.256	(6)>1.843	3.098
862.07	1.715	(6)>1.847	3.562
862.10	2.219	(6)>1.851	4.070
862.13	2.764	(6)>1.855	4.620
862.16	3.348	(6)>1.860	5.208
862.19	3.969	(6)>1.864	5.833
862.22	4.623	(6)>1.868	6.492
862.25	5.310	(6)>1.873	7.183
862.28	6.028	(6)>1.877	7.905
862.31	6.776	(6)>1.881	8.657
862.34	7.553	(6)>1.885	9.438
862.37	8.357	(6)>1.890	10.246
862.40	9.187	(6)>1.894	11.081
862.43	10.044	(6)>1.898	11.942
862.46	10.925	(6)>1.902	12.828
862.49	11.831	(6)>1.907	13.738
862.52	12.761	(6)>1.911	14.672
862.55	13.714	(6)>1.915	15.629
862.58	14.689	(6)>1.919	16.608
862.61	15.686	(6)>1.924	17.610
862.64	16.705	(6)>1.928	18.633
862.67	17.746	(6)>1.932	19.678
862.70	18.807	(6)>1.936	20.743
862.73	19.888	(6)>1.941	21.829
862.76	20.989	(6)>1.945	22.934
862.79	22.110	(6)>1.949	24.060
862.82	23.250	(6)>1.954	25.204
862.85	24.410	(6)>1.958	26.367
862.88	25.587	(6)>1.962	27.549
862.91	26.783	(6)>1.966	28.750
862.94	27.998	(6)>1.971	29.968
862.97	29.230	(6)>1.975	31.205
863.00	29.859	(6)>1.979	31.838
863.03	30.267	(6)>1.983	32.250
863.06	30.669	(6)>1.988	32.657
863.09	31.067	(6)>1.992	33.059
863.12	31.459	(6)>1.996	33.455
863.15	31.847	(6)>2.000	33.847
863.18	32.230	(6)>2.005	34.234
863.21	32.608	(6)>2.009	34.617

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
863.24	32.982	(6)>2.013	34.996
863.27	33.352	(6)>2.018	35.370
863.30	33.718	(6)>2.022	35.740
863.33	34.080	(6)>2.026	36.106
863.36	34.438	(6)>2.030	36.468
863.39	34.792	(6)>2.035	36.827
863.42	35.143	(6)>2.039	37.182
863.45	35.491	(6)>2.043	37.534
863.48	35.835	(6)>2.047	37.882
863.51	36.175	(6)>2.052	38.227
863.54	36.513	(6)>2.056	38.569
863.57	36.847	(6)>2.060	38.908
863.60	37.179	(6)>2.064	39.243
863.63	37.507	(6)>2.069	39.576
863.66	37.833	(6)>2.073	39.906
863.69	38.156	(6)>2.077	40.233
863.72	38.476	(6)>2.081	40.558
863.75	38.794	(6)>2.086	40.880
863.78	39.109	(6)>2.090	41.199
863.81	39.421	(6)>2.094	41.515
863.84	39.731	(6)>2.099	41.830
863.87	40.039	(6)>2.102	42.141
863.90	40.344	(6)>2.106	42.450
863.93	40.647	(6)>2.109	42.756
863.96	40.948	(6)>2.112	43.060
863.99	41.246	(6)>2.116	43.362
864.00	41.345	(6)>2.117	43.462
864.02	41.543	(6)>2.119	43.662
864.05	41.837	(6)>2.122	43.959
864.08	42.129	(6)>2.126	44.255
864.11	42.419	(6)>2.129	44.548
864.14	42.708	(6)>2.132	44.840
864.17	42.994	(6)>2.136	45.130
864.20	43.278	(6)>2.139	45.417
864.23	43.561	(6)>2.142	45.703
864.26	43.842	(6)>2.146	45.987
864.29	44.121	(6)>2.149	46.270
864.32	44.398	(6)>2.153	46.550
864.35	44.673	(6)>2.156	46.829
864.38	44.947	(6)>2.159	47.106
864.41	45.219	(6)>2.163	47.382

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
864.44	45.490	(6)>2.166	47.656
864.47	45.759	(6)>2.169	47.928
864.50	46.026	(6)>2.173	48.199
864.53	46.292	(6)>2.176	48.468
864.56	46.556	(6)>2.179	48.735
864.59	46.819	(6)>2.183	49.002
864.62	47.080	(6)>2.186	49.266
864.65	47.340	(6)>2.189	49.529
864.68	47.598	(6)>2.193	49.791
864.71	47.855	(6)>2.196	50.052
864.74	48.111	(6)>2.200	50.311
864.77	48.365	(6)>2.203	50.568
864.80	48.618	(6)>2.206	50.825
864.83	48.870	(6)>2.210	51.080
864.86	49.121	(6)>2.213	51.334
864.89	49.370	(6)>2.216	51.586
864.92	49.618	(6)>2.220	51.837
864.95	49.864	(6)>2.223	52.087
864.98	50.110	(6)>2.226	52.336
865.00	50.273	(6)>2.229	52.501

Subwatershed Hydrology Detail:

Stru #	SWS #	SWS Area (ac)	Time of Conc (hrs)	Musk K (hrs)	Musk X	Curve Number	UHS	Peak Discharge (cfs)	Runoff Volume (ac-ft)
#1	1	4.100	0.140	0.000	0.000	61.000	M	2.33	0.091
	2	0.720	0.140	0.000	0.000	74.000	M	1.04	0.041
	3	6.240	0.140	0.000	0.000	98.000	M	22.47	1.128
	4	0.440	0.140	0.000	0.000	98.000	M	1.58	0.080
	Σ	11.500						26.81	1.339

Enova Premier **2019 Expansion**

REVISED 03-06-19

PROPOSED CONDITIONS

TRAILER PARKING EXPANSION

John W. Hunt, PE, PLS

MLH Civil Engineers, PLLC
3320 Clays Mill Road, Suite #208
PO Box 910379
Lexington, KY 40591-0379

Phone: 859-219-1066
Email: john@mlhcivil.com

General Information

Storm Information:

Storm Type:	NRCS Type II
Design Storm:	100 yr - 24 hr
Rainfall Depth:	6.810 inches

Structure Networking:

Type	Stru #	(flows into)	Stru #	Musk. K (hrs)	Musk. X	Description
Pond	#1	==>	End	0.000	0.000	Basin Watershed

#1 <i>Pond</i>

Structure Summary:

		Immediate Contributing Area (ac)	Total Contributing Area (ac)	Peak Discharge (cfs)	Total Runoff Volume (ac-ft)
#1	In	11.500	11.500	35.95	3.87
	Out			20.02	3.87

Structure Detail:

Structure #1 (Pond)

Basin Watershed

Pond Inputs:

Initial Pool Elev:	856.08 ft
Initial Pool:	0.00 ac-ft

Drop Inlet

Riser Diameter (in)	Riser Height (ft)	Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)
33.00	7.03	30.00	47.90	2.17	0.0130	861.91

Straight Pipe

Barrel Diameter (in)	Barrel Length (ft)	Barrel Slope (%)	Manning's n	Spillway Elev (ft)	Entrance Loss Coefficient	Tailwater Depth (ft)
6.50	47.90	2.17	0.0120	856.08	0.50	0.00

Pond Results:

Peak Elevation:	862.68 ft
Dewater Time:	0.63 days

Dewatering time is calculated from peak stage to lowest spillway

Elevation-Capacity-Discharge Table

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.07	0.000	0.000	0.000	
856.08	0.000	0.000	0.000	Spillway #2
856.10	0.000	0.000	0.010	
856.13	0.000	0.000	0.024	
856.16	0.000	0.000	0.038	
856.19	0.001	0.000	0.053	
856.22	0.001	0.000	0.067	
856.25	0.001	0.000	0.081	
856.28	0.001	0.000	0.096	
856.31	0.001	0.000	0.120	0.05
856.34	0.001	0.000	0.148	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
856.37	0.002	0.000	0.177	
856.40	0.002	0.000	0.205	
856.43	0.002	0.000	0.233	
856.46	0.002	0.000	0.262	
856.49	0.003	0.000	0.290	
856.52	0.003	0.001	0.319	
856.55	0.003	0.001	0.347	
856.58	0.004	0.001	0.375	
856.61	0.004	0.001	0.404	
856.64	0.004	0.001	0.432	
856.67	0.005	0.001	0.461	
856.70	0.005	0.001	0.489	
856.73	0.006	0.001	0.517	0.05
856.76	0.006	0.002	0.546	
856.79	0.006	0.002	0.574	
856.82	0.007	0.002	0.601	
856.85	0.007	0.002	0.617	
856.88	0.008	0.002	0.633	
856.91	0.008	0.003	0.649	
856.94	0.009	0.003	0.665	
856.97	0.009	0.003	0.681	
857.00	0.010	0.003	0.696	
857.03	0.011	0.004	0.712	
857.06	0.012	0.004	0.728	0.05
857.09	0.013	0.005	0.744	
857.12	0.014	0.005	0.760	
857.15	0.015	0.005	0.775	
857.18	0.016	0.006	0.791	
857.21	0.017	0.006	0.807	
857.24	0.018	0.007	0.823	
857.27	0.019	0.007	0.839	0.05
857.30	0.020	0.008	0.854	
857.33	0.022	0.009	0.870	
857.36	0.023	0.009	0.886	
857.39	0.024	0.010	0.902	
857.42	0.026	0.011	0.918	0.05
857.45	0.027	0.012	0.933	
857.48	0.029	0.012	0.949	
857.51	0.030	0.013	0.965	
857.54	0.032	0.014	0.981	
857.57	0.033	0.015	0.997	0.05
857.60	0.035	0.016	1.012	
857.63	0.036	0.017	1.028	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
857.66	0.038	0.018	1.044	
857.69	0.040	0.019	1.060	0.05
857.72	0.041	0.021	1.076	
857.75	0.043	0.022	1.091	
857.78	0.045	0.023	1.103	
857.81	0.047	0.025	1.109	0.05
857.84	0.049	0.026	1.114	
857.87	0.051	0.028	1.120	
857.90	0.053	0.029	1.126	0.05
857.93	0.055	0.031	1.132	
857.96	0.057	0.032	1.138	
857.99	0.059	0.034	1.144	0.05
858.00	0.059	0.035	1.146	
858.02	0.061	0.036	1.149	
858.05	0.062	0.038	1.155	0.05
858.08	0.064	0.040	1.161	
858.11	0.066	0.042	1.167	
858.14	0.068	0.044	1.173	0.05
858.17	0.070	0.046	1.179	
858.20	0.072	0.048	1.185	0.05
858.23	0.074	0.050	1.190	
858.26	0.076	0.052	1.196	0.05
858.29	0.078	0.055	1.202	
858.32	0.080	0.057	1.208	0.05
858.35	0.082	0.059	1.214	
858.38	0.084	0.062	1.220	
858.41	0.086	0.064	1.225	0.05
858.44	0.088	0.067	1.231	0.05
858.47	0.090	0.070	1.237	
858.50	0.093	0.072	1.243	0.05
858.53	0.095	0.075	1.249	
858.56	0.097	0.078	1.255	0.05
858.59	0.099	0.081	1.260	
858.62	0.102	0.084	1.266	0.05
858.65	0.104	0.087	1.272	
858.68	0.106	0.090	1.278	0.05
858.71	0.109	0.094	1.284	0.05
858.74	0.111	0.097	1.290	
858.77	0.113	0.100	1.296	0.05
858.80	0.116	0.104	1.301	0.05
858.83	0.118	0.107	1.307	
858.86	0.121	0.111	1.313	0.05
858.89	0.123	0.114	1.319	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
858.92	0.126	0.118	1.325	0.05
858.95	0.129	0.122	1.331	0.05
858.98	0.131	0.126	1.336	0.05
859.00	0.133	0.129	1.340	
859.01	0.134	0.130	1.342	
859.04	0.137	0.134	1.348	0.05
859.07	0.140	0.138	1.354	0.05
859.10	0.142	0.142	1.360	0.05
859.13	0.145	0.147	1.366	
859.16	0.148	0.151	1.372	0.05
859.19	0.151	0.155	1.377	0.05
859.22	0.154	0.160	1.383	0.05
859.25	0.157	0.165	1.389	
859.28	0.160	0.169	1.395	0.05
859.31	0.163	0.174	1.401	0.05
859.34	0.166	0.179	1.407	0.05
859.37	0.169	0.184	1.412	0.05
859.40	0.172	0.189	1.418	0.05
859.43	0.176	0.195	1.424	0.05
859.46	0.179	0.200	1.430	0.05
859.49	0.182	0.205	1.436	
859.52	0.185	0.211	1.442	0.05
859.55	0.188	0.216	1.447	0.05
859.58	0.192	0.222	1.453	0.05
859.61	0.195	0.228	1.459	0.05
859.64	0.198	0.234	1.465	0.05
859.67	0.202	0.240	1.471	0.05
859.70	0.205	0.246	1.477	0.05
859.73	0.209	0.252	1.483	0.05
859.76	0.212	0.259	1.488	0.05
859.79	0.216	0.265	1.494	0.05
859.82	0.219	0.271	1.500	0.05
859.85	0.223	0.278	1.506	0.05
859.88	0.226	0.285	1.512	0.05
859.91	0.230	0.292	1.518	0.10
859.94	0.234	0.299	1.523	0.05
859.97	0.237	0.306	1.529	0.05
860.00	0.241	0.313	1.535	0.05
860.03	0.244	0.320	1.541	0.05
860.06	0.246	0.327	1.547	0.05
860.09	0.249	0.335	1.553	0.10
860.12	0.252	0.342	1.559	0.05
860.15	0.254	0.350	1.564	0.05

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
860.18	0.257	0.358	1.570	0.10
860.21	0.260	0.365	1.576	0.10
860.24	0.262	0.373	1.582	0.10
860.27	0.265	0.381	1.588	0.10
860.30	0.268	0.389	1.594	0.15
860.33	0.271	0.397	1.599	0.10
860.36	0.273	0.405	1.604	0.10
860.39	0.276	0.414	1.608	0.10
860.42	0.279	0.422	1.612	0.10
860.45	0.282	0.430	1.617	0.10
860.48	0.285	0.439	1.621	0.15
860.51	0.287	0.447	1.625	0.10
860.54	0.290	0.456	1.629	0.10
860.57	0.293	0.465	1.634	0.10
860.60	0.296	0.474	1.638	0.10
860.63	0.299	0.483	1.642	0.15
860.66	0.302	0.492	1.646	0.10
860.69	0.305	0.501	1.651	0.10
860.72	0.308	0.510	1.655	0.15
860.75	0.311	0.519	1.659	0.10
860.78	0.314	0.529	1.664	0.10
860.81	0.317	0.538	1.668	0.10
860.84	0.320	0.548	1.672	0.15
860.87	0.323	0.557	1.676	0.10
860.90	0.326	0.567	1.681	0.15
860.93	0.329	0.577	1.685	0.10
860.96	0.332	0.587	1.689	0.10
860.99	0.335	0.597	1.693	0.15
861.00	0.336	0.600	1.695	
861.02	0.338	0.607	1.698	0.10
861.05	0.340	0.617	1.702	0.15
861.08	0.343	0.627	1.706	0.10
861.11	0.345	0.638	1.710	0.10
861.14	0.348	0.648	1.715	0.15
861.17	0.350	0.658	1.719	0.10
861.20	0.353	0.669	1.723	0.15
861.23	0.355	0.680	1.728	0.10
861.26	0.358	0.690	1.732	0.15
861.29	0.360	0.701	1.736	0.15
861.32	0.363	0.712	1.740	0.15
861.35	0.365	0.723	1.745	0.15
861.38	0.368	0.734	1.749	0.10
861.41	0.370	0.745	1.753	0.15

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)	
861.44	0.373	0.756	1.757	0.15	
861.47	0.376	0.767	1.762	0.15	
861.50	0.378	0.779	1.766	0.20	
861.53	0.381	0.790	1.770	0.15	
861.56	0.383	0.801	1.774	0.15	
861.59	0.386	0.813	1.779	0.15	
861.62	0.389	0.825	1.783	0.20	
861.65	0.391	0.836	1.787	0.15	
861.68	0.394	0.848	1.791	0.20	
861.70	0.396	0.856	1.794	0.15	
861.71	0.397	0.860	1.796	0.05	
861.74	0.399	0.872	1.800	0.25	
861.77	0.402	0.884	1.804	0.20	
861.80	0.405	0.896	1.809	0.25	
861.83	0.408	0.908	1.813	0.30	
861.86	0.410	0.920	1.817	0.30	
861.89	0.413	0.933	1.821	0.35	
861.91	0.415	0.941	1.824	0.20	Spillway #1
861.92	0.416	0.945	1.853	0.20	
861.95	0.418	0.958	2.044	0.50	
861.98	0.421	0.970	2.331	0.50	
862.00	0.423	0.979	2.560	0.25	
862.01	0.424	0.983	2.686	0.10	
862.04	0.427	0.996	3.098	0.35	
862.07	0.431	1.009	3.562	0.20	
862.10	0.434	1.022	4.070	0.20	
862.13	0.437	1.035	4.620	0.15	
862.16	0.440	1.048	5.208	0.10	
862.19	0.444	1.061	5.833	0.10	
862.22	0.447	1.074	6.492	0.10	
862.25	0.450	1.088	7.183	0.05	
862.28	0.454	1.101	7.905	0.05	
862.31	0.457	1.115	8.657	0.05	
862.34	0.461	1.129	9.438	0.05	
862.37	0.464	1.143	10.246	0.05	
862.40	0.467	1.157	11.081	0.05	
862.43	0.471	1.171	11.942	0.05	
862.46	0.474	1.185	12.828	0.05	
862.49	0.478	1.199	13.738	0.05	
862.52	0.481	1.214	14.672	0.05	
862.55	0.485	1.228	15.629	0.05	
862.58	0.488	1.243	16.608	0.05	
862.61	0.492	1.257	17.610		

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
862.64	0.495	1.272	18.633	0.05
862.67	0.499	1.287	19.678	
862.68	0.500	1.292	20.023	0.05 Peak Stage
862.70	0.502	1.302	20.743	
862.73	0.506	1.317	21.829	
862.76	0.509	1.332	22.934	
862.79	0.513	1.348	24.060	
862.82	0.516	1.363	25.204	
862.85	0.520	1.379	26.367	
862.88	0.523	1.394	27.549	
862.91	0.527	1.410	28.750	
862.94	0.531	1.426	29.968	
862.97	0.534	1.442	31.205	
863.00	0.538	1.458	31.838	
863.03	0.541	1.474	32.250	
863.06	0.544	1.491	32.657	
863.09	0.547	1.507	33.059	
863.12	0.550	1.523	33.455	
863.15	0.553	1.540	33.847	
863.18	0.556	1.557	34.234	
863.21	0.559	1.573	34.617	
863.24	0.562	1.590	34.996	
863.27	0.565	1.607	35.370	
863.30	0.568	1.624	35.740	
863.33	0.571	1.641	36.106	
863.36	0.574	1.658	36.468	
863.39	0.577	1.676	36.827	
863.42	0.581	1.693	37.182	
863.45	0.584	1.710	37.534	
863.48	0.587	1.728	37.882	
863.51	0.590	1.746	38.227	
863.54	0.593	1.763	38.569	
863.57	0.596	1.781	38.908	
863.60	0.599	1.799	39.243	
863.63	0.602	1.817	39.576	
863.66	0.606	1.835	39.906	
863.69	0.609	1.853	40.233	
863.72	0.612	1.872	40.558	
863.75	0.615	1.890	40.880	
863.78	0.618	1.909	41.199	
863.81	0.622	1.927	41.515	
863.84	0.625	1.946	41.830	
863.87	0.628	1.965	42.141	

Elevation	Area (ac)	Capacity (ac-ft)	Discharge (cfs)	Dewater Time (hrs)
863.90	0.631	1.984	42.450	
863.93	0.634	2.003	42.756	
863.96	0.638	2.022	43.060	
863.99	0.641	2.041	43.362	
864.00	0.642	2.047	43.462	
864.02	0.644	2.060	43.662	
864.05	0.647	2.080	43.959	
864.08	0.650	2.099	44.255	
864.11	0.653	2.119	44.548	
864.14	0.656	2.138	44.840	
864.17	0.659	2.158	45.130	
864.20	0.662	2.178	45.417	
864.23	0.665	2.198	45.703	
864.26	0.668	2.218	45.987	
864.29	0.671	2.238	46.270	
864.32	0.674	2.258	46.550	
864.35	0.677	2.278	46.829	
864.38	0.680	2.298	47.106	
864.41	0.683	2.319	47.382	
864.44	0.686	2.339	47.656	
864.47	0.689	2.360	47.928	
864.50	0.692	2.381	48.199	
864.53	0.695	2.402	48.468	
864.56	0.698	2.422	48.735	
864.59	0.701	2.443	49.002	
864.62	0.704	2.465	49.266	
864.65	0.707	2.486	49.529	
864.68	0.711	2.507	49.791	
864.71	0.714	2.528	50.052	
864.74	0.717	2.550	50.311	
864.77	0.720	2.571	50.568	
864.80	0.723	2.593	50.825	
864.83	0.726	2.615	51.080	
864.86	0.729	2.637	51.334	
864.89	0.732	2.658	51.586	
864.92	0.736	2.680	51.837	
864.95	0.739	2.703	52.087	
864.98	0.742	2.725	52.336	
865.00	0.744	2.740	52.501	

Detailed Discharge Table

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
856.07	0.000	0.000	0.000
856.08	0.000	0.000	0.000
856.10	0.000	0.010	0.010
856.13	0.000	(1)>0.024	0.024
856.16	0.000	(1)>0.038	0.038
856.19	0.000	(2)>0.053	0.053
856.22	0.000	(2)>0.067	0.067
856.25	0.000	(2)>0.081	0.081
856.28	0.000	(3)>0.096	0.096
856.31	0.000	(3)>0.120	0.120
856.34	0.000	(3)>0.148	0.148
856.37	0.000	(3)>0.177	0.177
856.40	0.000	(3)>0.205	0.205
856.43	0.000	(4)>0.233	0.233
856.46	0.000	(4)>0.262	0.262
856.49	0.000	(4)>0.290	0.290
856.52	0.000	(4)>0.319	0.319
856.55	0.000	(4)>0.347	0.347
856.58	0.000	(4)>0.375	0.375
856.61	0.000	(4)>0.404	0.404
856.64	0.000	(4)>0.432	0.432
856.67	0.000	(4)>0.461	0.461
856.70	0.000	(5)>0.489	0.489
856.73	0.000	(5)>0.517	0.517
856.76	0.000	(5)>0.546	0.546
856.79	0.000	(5)>0.574	0.574
856.82	0.000	(5)>0.601	0.601
856.85	0.000	(5)>0.617	0.617
856.88	0.000	(5)>0.633	0.633
856.91	0.000	(5)>0.649	0.649
856.94	0.000	(5)>0.665	0.665
856.97	0.000	(5)>0.681	0.681
857.00	0.000	(5)>0.696	0.696
857.03	0.000	(5)>0.712	0.712
857.06	0.000	(5)>0.728	0.728
857.09	0.000	(5)>0.744	0.744
857.12	0.000	(5)>0.760	0.760
857.15	0.000	(5)>0.775	0.775
857.18	0.000	(5)>0.791	0.791
857.21	0.000	(5)>0.807	0.807
857.24	0.000	(5)>0.823	0.823

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
857.27	0.000	(5)>0.839	0.839
857.30	0.000	(6)>0.854	0.854
857.33	0.000	(6)>0.870	0.870
857.36	0.000	(6)>0.886	0.886
857.39	0.000	(6)>0.902	0.902
857.42	0.000	(6)>0.918	0.918
857.45	0.000	(6)>0.933	0.933
857.48	0.000	(6)>0.949	0.949
857.51	0.000	(6)>0.965	0.965
857.54	0.000	(6)>0.981	0.981
857.57	0.000	(6)>0.997	0.997
857.60	0.000	(6)>1.012	1.012
857.63	0.000	(6)>1.028	1.028
857.66	0.000	(6)>1.044	1.044
857.69	0.000	(6)>1.060	1.060
857.72	0.000	(6)>1.076	1.076
857.75	0.000	(6)>1.091	1.091
857.78	0.000	(6)>1.103	1.103
857.81	0.000	(6)>1.109	1.109
857.84	0.000	(6)>1.114	1.114
857.87	0.000	(6)>1.120	1.120
857.90	0.000	(6)>1.126	1.126
857.93	0.000	(6)>1.132	1.132
857.96	0.000	(6)>1.138	1.138
857.99	0.000	(6)>1.144	1.144
858.00	0.000	(6)>1.146	1.146
858.02	0.000	(6)>1.149	1.149
858.05	0.000	(6)>1.155	1.155
858.08	0.000	(6)>1.161	1.161
858.11	0.000	(6)>1.167	1.167
858.14	0.000	(6)>1.173	1.173
858.17	0.000	(6)>1.179	1.179
858.20	0.000	(6)>1.185	1.185
858.23	0.000	(6)>1.190	1.190
858.26	0.000	(6)>1.196	1.196
858.29	0.000	(6)>1.202	1.202
858.32	0.000	(6)>1.208	1.208
858.35	0.000	(6)>1.214	1.214
858.38	0.000	(6)>1.220	1.220
858.41	0.000	(6)>1.225	1.225
858.44	0.000	(6)>1.231	1.231

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
858.47	0.000	(6)>1.237	1.237
858.50	0.000	(6)>1.243	1.243
858.53	0.000	(6)>1.249	1.249
858.56	0.000	(6)>1.255	1.255
858.59	0.000	(6)>1.260	1.260
858.62	0.000	(6)>1.266	1.266
858.65	0.000	(6)>1.272	1.272
858.68	0.000	(6)>1.278	1.278
858.71	0.000	(6)>1.284	1.284
858.74	0.000	(6)>1.290	1.290
858.77	0.000	(6)>1.296	1.296
858.80	0.000	(6)>1.301	1.301
858.83	0.000	(6)>1.307	1.307
858.86	0.000	(6)>1.313	1.313
858.89	0.000	(6)>1.319	1.319
858.92	0.000	(6)>1.325	1.325
858.95	0.000	(6)>1.331	1.331
858.98	0.000	(6)>1.336	1.336
859.00	0.000	(6)>1.340	1.340
859.01	0.000	(6)>1.342	1.342
859.04	0.000	(6)>1.348	1.348
859.07	0.000	(6)>1.354	1.354
859.10	0.000	(6)>1.360	1.360
859.13	0.000	(6)>1.366	1.366
859.16	0.000	(6)>1.372	1.372
859.19	0.000	(6)>1.377	1.377
859.22	0.000	(6)>1.383	1.383
859.25	0.000	(6)>1.389	1.389
859.28	0.000	(6)>1.395	1.395
859.31	0.000	(6)>1.401	1.401
859.34	0.000	(6)>1.407	1.407
859.37	0.000	(6)>1.412	1.412
859.40	0.000	(6)>1.418	1.418
859.43	0.000	(6)>1.424	1.424
859.46	0.000	(6)>1.430	1.430
859.49	0.000	(6)>1.436	1.436
859.52	0.000	(6)>1.442	1.442
859.55	0.000	(6)>1.447	1.447
859.58	0.000	(6)>1.453	1.453
859.61	0.000	(6)>1.459	1.459
859.64	0.000	(6)>1.465	1.465

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
859.67	0.000	(6)>1.471	1.471
859.70	0.000	(6)>1.477	1.477
859.73	0.000	(6)>1.483	1.483
859.76	0.000	(6)>1.488	1.488
859.79	0.000	(6)>1.494	1.494
859.82	0.000	(6)>1.500	1.500
859.85	0.000	(6)>1.506	1.506
859.88	0.000	(6)>1.512	1.512
859.91	0.000	(6)>1.518	1.518
859.94	0.000	(6)>1.523	1.523
859.97	0.000	(6)>1.529	1.529
860.00	0.000	(6)>1.535	1.535
860.03	0.000	(6)>1.541	1.541
860.06	0.000	(6)>1.547	1.547
860.09	0.000	(6)>1.553	1.553
860.12	0.000	(6)>1.559	1.559
860.15	0.000	(6)>1.564	1.564
860.18	0.000	(6)>1.570	1.570
860.21	0.000	(6)>1.576	1.576
860.24	0.000	(6)>1.582	1.582
860.27	0.000	(6)>1.588	1.588
860.30	0.000	(6)>1.594	1.594
860.33	0.000	(6)>1.599	1.599
860.36	0.000	(6)>1.604	1.604
860.39	0.000	(6)>1.608	1.608
860.42	0.000	(6)>1.612	1.612
860.45	0.000	(6)>1.617	1.617
860.48	0.000	(6)>1.621	1.621
860.51	0.000	(6)>1.625	1.625
860.54	0.000	(6)>1.629	1.629
860.57	0.000	(6)>1.634	1.634
860.60	0.000	(6)>1.638	1.638
860.63	0.000	(6)>1.642	1.642
860.66	0.000	(6)>1.646	1.646
860.69	0.000	(6)>1.651	1.651
860.72	0.000	(6)>1.655	1.655
860.75	0.000	(6)>1.659	1.659
860.78	0.000	(6)>1.664	1.664
860.81	0.000	(6)>1.668	1.668
860.84	0.000	(6)>1.672	1.672
860.87	0.000	(6)>1.676	1.676

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
860.90	0.000	(6)>1.681	1.681
860.93	0.000	(6)>1.685	1.685
860.96	0.000	(6)>1.689	1.689
860.99	0.000	(6)>1.693	1.693
861.00	0.000	(6)>1.695	1.695
861.02	0.000	(6)>1.698	1.698
861.05	0.000	(6)>1.702	1.702
861.08	0.000	(6)>1.706	1.706
861.11	0.000	(6)>1.710	1.710
861.14	0.000	(6)>1.715	1.715
861.17	0.000	(6)>1.719	1.719
861.20	0.000	(6)>1.723	1.723
861.23	0.000	(6)>1.728	1.728
861.26	0.000	(6)>1.732	1.732
861.29	0.000	(6)>1.736	1.736
861.32	0.000	(6)>1.740	1.740
861.35	0.000	(6)>1.745	1.745
861.38	0.000	(6)>1.749	1.749
861.41	0.000	(6)>1.753	1.753
861.44	0.000	(6)>1.757	1.757
861.47	0.000	(6)>1.762	1.762
861.50	0.000	(6)>1.766	1.766
861.53	0.000	(6)>1.770	1.770
861.56	0.000	(6)>1.774	1.774
861.59	0.000	(6)>1.779	1.779
861.62	0.000	(6)>1.783	1.783
861.65	0.000	(6)>1.787	1.787
861.68	0.000	(6)>1.791	1.791
861.70	0.000	(6)>1.794	1.794
861.71	0.000	(6)>1.796	1.796
861.74	0.000	(6)>1.800	1.800
861.77	0.000	(6)>1.804	1.804
861.80	0.000	(6)>1.809	1.809
861.83	0.000	(6)>1.813	1.813
861.86	0.000	(6)>1.817	1.817
861.89	0.000	(6)>1.821	1.821
861.91	0.000	(6)>1.824	1.824
861.92	0.027	(6)>1.826	1.853
861.95	0.215	(6)>1.830	2.044
861.98	0.496	(6)>1.834	2.331
862.00	0.723	(6)>1.837	2.560

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
862.01	0.847	(6)>1.838	2.686
862.04	1.256	(6)>1.843	3.098
862.07	1.715	(6)>1.847	3.562
862.10	2.219	(6)>1.851	4.070
862.13	2.764	(6)>1.855	4.620
862.16	3.348	(6)>1.860	5.208
862.19	3.969	(6)>1.864	5.833
862.22	4.623	(6)>1.868	6.492
862.25	5.310	(6)>1.873	7.183
862.28	6.028	(6)>1.877	7.905
862.31	6.776	(6)>1.881	8.657
862.34	7.553	(6)>1.885	9.438
862.37	8.357	(6)>1.890	10.246
862.40	9.187	(6)>1.894	11.081
862.43	10.044	(6)>1.898	11.942
862.46	10.925	(6)>1.902	12.828
862.49	11.831	(6)>1.907	13.738
862.52	12.761	(6)>1.911	14.672
862.55	13.714	(6)>1.915	15.629
862.58	14.689	(6)>1.919	16.608
862.61	15.686	(6)>1.924	17.610
862.64	16.705	(6)>1.928	18.633
862.67	17.746	(6)>1.932	19.678
862.70	18.807	(6)>1.936	20.743
862.73	19.888	(6)>1.941	21.829
862.76	20.989	(6)>1.945	22.934
862.79	22.110	(6)>1.949	24.060
862.82	23.250	(6)>1.954	25.204
862.85	24.410	(6)>1.958	26.367
862.88	25.587	(6)>1.962	27.549
862.91	26.783	(6)>1.966	28.750
862.94	27.998	(6)>1.971	29.968
862.97	29.230	(6)>1.975	31.205
863.00	29.859	(6)>1.979	31.838
863.03	30.267	(6)>1.983	32.250
863.06	30.669	(6)>1.988	32.657
863.09	31.067	(6)>1.992	33.059
863.12	31.459	(6)>1.996	33.455
863.15	31.847	(6)>2.000	33.847
863.18	32.230	(6)>2.005	34.234
863.21	32.608	(6)>2.009	34.617

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
863.24	32.982	(6)>2.013	34.996
863.27	33.352	(6)>2.018	35.370
863.30	33.718	(6)>2.022	35.740
863.33	34.080	(6)>2.026	36.106
863.36	34.438	(6)>2.030	36.468
863.39	34.792	(6)>2.035	36.827
863.42	35.143	(6)>2.039	37.182
863.45	35.491	(6)>2.043	37.534
863.48	35.835	(6)>2.047	37.882
863.51	36.175	(6)>2.052	38.227
863.54	36.513	(6)>2.056	38.569
863.57	36.847	(6)>2.060	38.908
863.60	37.179	(6)>2.064	39.243
863.63	37.507	(6)>2.069	39.576
863.66	37.833	(6)>2.073	39.906
863.69	38.156	(6)>2.077	40.233
863.72	38.476	(6)>2.081	40.558
863.75	38.794	(6)>2.086	40.880
863.78	39.109	(6)>2.090	41.199
863.81	39.421	(6)>2.094	41.515
863.84	39.731	(6)>2.099	41.830
863.87	40.039	(6)>2.102	42.141
863.90	40.344	(6)>2.106	42.450
863.93	40.647	(6)>2.109	42.756
863.96	40.948	(6)>2.112	43.060
863.99	41.246	(6)>2.116	43.362
864.00	41.345	(6)>2.117	43.462
864.02	41.543	(6)>2.119	43.662
864.05	41.837	(6)>2.122	43.959
864.08	42.129	(6)>2.126	44.255
864.11	42.419	(6)>2.129	44.548
864.14	42.708	(6)>2.132	44.840
864.17	42.994	(6)>2.136	45.130
864.20	43.278	(6)>2.139	45.417
864.23	43.561	(6)>2.142	45.703
864.26	43.842	(6)>2.146	45.987
864.29	44.121	(6)>2.149	46.270
864.32	44.398	(6)>2.153	46.550
864.35	44.673	(6)>2.156	46.829
864.38	44.947	(6)>2.159	47.106
864.41	45.219	(6)>2.163	47.382

Elevation (ft)	Drop Inlet (cfs)	Straight Pipe (cfs)	Combined Total Discharge (cfs)
864.44	45.490	(6)>2.166	47.656
864.47	45.759	(6)>2.169	47.928
864.50	46.026	(6)>2.173	48.199
864.53	46.292	(6)>2.176	48.468
864.56	46.556	(6)>2.179	48.735
864.59	46.819	(6)>2.183	49.002
864.62	47.080	(6)>2.186	49.266
864.65	47.340	(6)>2.189	49.529
864.68	47.598	(6)>2.193	49.791
864.71	47.855	(6)>2.196	50.052
864.74	48.111	(6)>2.200	50.311
864.77	48.365	(6)>2.203	50.568
864.80	48.618	(6)>2.206	50.825
864.83	48.870	(6)>2.210	51.080
864.86	49.121	(6)>2.213	51.334
864.89	49.370	(6)>2.216	51.586
864.92	49.618	(6)>2.220	51.837
864.95	49.864	(6)>2.223	52.087
864.98	50.110	(6)>2.226	52.336
865.00	50.273	(6)>2.229	52.501

Subwatershed Hydrology Detail:

Stru #	SWS #	SWS Area (ac)	Time of Conc (hrs)	Musk K (hrs)	Musk X	Curve Number	UHS	Peak Discharge (cfs)	Runoff Volume (ac-ft)
#1	1	4.100	0.140	0.000	0.000	61.000	M	7.59	0.712
	2	0.720	0.140	0.000	0.000	74.000	M	1.99	0.189
	3	6.240	0.140	0.000	0.000	98.000	M	24.77	2.777
	4	0.440	0.140	0.000	0.000	98.000	M	1.75	0.195
	Σ	11.500						35.95	3.873