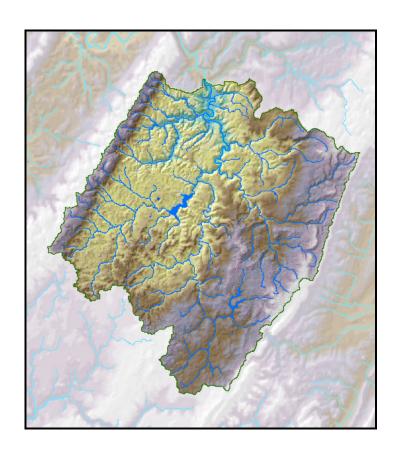
STONYCREEK RIVER WATERSHED ACT 167 – PHASE 2 STORMWATER MANAGEMENT PLAN

VOLUME III – TECHNICAL APPENDIX



CAMBRIA AND SOMERSET COUNTIES, PENNSYLVANIA

FILE NO. BLE PROJECT NO. 2005-1719-00

STONYCREEK RIVER WATERSHED ACT 167 – PHASE 2 STORMWATER MANAGEMENT PLAN

CAMBRIA AND SOMERSET COUNTIES, PENNSYLVANIA

VOLUME III TECHNICAL APPENDIX

FILE NO.
BLE PROJECT NO. 2005-1719-00

ENGINEERING CONSULTANT

BORTON-LAWSON ENGINEERING, INC. 3893 Adler Place, Suite 100 Bethlehem, PA 18017

VOLUME III – TECHNICAL APPENDIX

TABLE OF CONTENTS

Α.	WATERSHED PEAK FLOWS SUMMARY TABLES	1
В.	HEC-HMS MODEL OUTPUT TABLES	2
C.	OBSTRUCTION CAPACITY SUMMARY FORMS (FORM B)	3
D.	DATA COLLECTION FORMS	4

A. WATERSHED PEAK FLOWS SUMMARY TABLES

STONYCREEK RIVER ACT 167 SUMMARY FLOW TABLES

Subbasin	HMS	Subarea	EX	ISTING CO	NDITIONS	SUBAREA	PEAK FLO	WS
	Element	DA (mi ²)	2- Yr	5- Yr	10- Yr	25- Yr	50- Yr	100- Yr
1	W1000	7.28	0	0	15	1124	1295	1792
2	W1010	2.56	82	168	260	266	291	452
3	W1020	0.07	6	15	24	23	24	40
4	W1040	8.81	220	440	669	699	773	1177
5	W1050	6.43	340	612	881	985	1123	1598
6	W1060	1.93	86	178	274	280	306	477
7	W1070	0.32	3	14	31	49	55	83
8	W1080	18.71	502	1143	1833	1983	2300	3120
9	W1090	19.04	322	812	1365	1586	1827	2528
10	W1100	3.55	234	401	562	774	844	1136
11	W1110	6.02	343	594	836	958	1103	1529
12	W1120	0.04	15	23	31	37	44	57
13	W1130	10.16	387	695	1001	1119	1277	1815
14	W1140	7.28	564	871	1156	1619	1816	2319
15	W1150	12.24	558	981	1397	1582	1814	2544
16	W1160	18.73	1457	2194	2870	3957	4494	5661
17	W1170	1.92	81	157	236	334	339	488
18	W1180	17.07	1198	1859	2474	3477	3883	4976
19	W1190	18.08	1185	1784	2334	3218	3649	4598
20	W1200	7.60	1500	2374	3174	4467	4890	6294
21	W1210	6.27	1213	1927	2581	3634	3976	5119
22	W1220	0.88	222	373	513	740	788	1040
23	W1240	6.89	595	891	1161	1595	1818	2282
24	W1250	9.62	1413	2331	3191	4593	4872	6417
25	W1260	0.02	6	8	10	13	15	18
26	W1270	0.01	4	5	7	8	10	11
27	W1280	5.06	427	622	797	1074	1237	1529
28	W1290	11.55	853	1273	1656	2269	2587	3240
29	W1300	5.00	425	643	844	1166	1323	1671
30	W1310	4.97	387	584	765	1057	1199	1512
31	W1320	1.84	110	240	378	391	455	611
32	W1340	3.83	48	159	303	408	461	669
33	W1380	3.06	197	368	539	633	666	971
34	W1390	9.82	405	772	1145	1330	1384	2046
35	W1430	1.08	94	172	250	296	315	453
36	W1450	3.91	234	421	606	721	774	1100
37	W1490	4.67	242	534	841	875	1018	1370
38	W1500	8.60	0	48	137	1688	1975	2591
39	W1540	1.01	234	391	537	775	824	1086
40	W1550	0.90	267	420	559	786	865	1111
41	W670	1.43	274	425	566	610	1025	1271
42	W680	8.29	559	1027	1490	2268	3616	4469
43	W690	7.38	489	822	1139	1387	1536	2089
44	W700	7.16	625	995	1343	1376	2518	3147
45	W710	0.23	25	51	77	88	89	137
46	W720	0.34	125	188	245	251	253	356
47	W730	3.77	316	569	817	975	1046	1488
48	W750	12.30	1470	2081	2631	3036	3743	4671
49	W760	7.75	989	1480	1933	2047	2228	3015

STONYCREEK RIVER ACT 167 SUMMARY FLOW TABLES

Subbasin	HMS Element	Subarea DA (mi²)	EX	ISTING CO	NDITIONS	SUBAREA	PEAK FLO	WS
	Licition	DA (IIII)	2- Yr	5- Yr	10- Yr	25- Yr	50- Yr	100- Yr
50	W770	6.34	576	1006	1420	1652	1785	2517
51	W780	0.35	40	80	120	138	141	214
52	W800	20.00	707	1249	1783	2131	2306	3242
53	W810	2.57	586	848	1086	1159	1625	2041
54	W820	1.20	376	532	672	769	1016	1251
55	W830	4.28	347	618	883	1013	1084	1550
56	W840	13.07	1274	1845	2366	2469	2648	3539
57	W850	7.36	970	1409	1812	2211	2683	3386
58	W860	4.53	404	718	1022	1227	1507	2060
59	W870	9.13	307	590	879	942	1055	1566
60	W880	20.61	477	880	1284	1412	1600	2313
61	W900	18.83	819	1352	1861	2545	2811	3722
62	W910	12.56	563	945	1312	1525	1767	2404
63	W920	12.05	256	600	978	1085	1256	1715
64	W930	9.68	162	442	767	925	1060	1487
65	W940	6.96	279	537	800	857	959	1426
66	W950	2.02	48	135	236	284	325	457
67	W960	1.61	0	0	0	218	247	356
68	W970	3.67	220	478	750	774	900	1209
69	W980	0.05	26	45	60	61	71	83
70	W990	5.90	0	0	1	665	766	1061

STONYCREEK RIVER ACT 167 SUMMARY FLOW TABLES

Subbasin	HMS Element	Subarea DA (mi²)		KISTING CO	ONDITIONS	CUMULAT	TIVE FLOW	S
		` ′	2- Yr	5- Yr	10- Yr	25- Yr	50- Yr	100- Yr
1	J168	3.91	234	421	606	721	774	1,100
2	J171	38.22	1,277	2,387	3,452	4,092	4,387	6,263
3	J176	3.83	48	159	303	408	461	669
4	J179	24.72	397	991	1,686	2,065	2,386	3,336
5	J182	9.97	804	1,216	1,593	2,202	2,497	3,153
6 7	J187	16.61	1,280	1,894	2,452	3,342	3,822	4,768
8	J192 J197	26.60	2,077 3,719	3,098 5,954	4,030	5,521 11,341	6,295 12,327	7,888
9	J200	24.36 59.76	2,514	3,780	8,022 5,022	7,044	8,023	15,947 10,251
10	J207	13.87	2,713	4,302	5,753	8,101	8,866	11,413
11	J212	94.90	3,953	5,930	7,784	10,823	12,304	15,623
12	J217	115.55	4,765	7,135	9,327	12,990	14,786	18,714
13	J222	22.39	941	1,671	2,389	2,691	3,079	4,342
14	J225	126.39	4,998	7,511	9,867	13,870	15,710	19,949
15	J230	28.45	1,246	2,197	3,127	3,573	4,094	5,745
16	J239	43.74	882	2,116	3,491	4,038	4,677	6,448
17	J244	36.82	1,522	2,674	3,800	4,481	5,133	7,216
18	J249	29.42	650	1,215	1,789	1,949	2,200	3,207
19	J252	68.87	2,104	3,795	5,471	6,237	7,093	10,130
20	J257	13.17	0	0	15	1,706	1,965	2,719
21	J262	85.99	1,299	3,213	5,336	7,240	8,391	11,528
22	J265	57.09	1,020	2,564	4,288	5,110	5,917	8,174
23	J270	71.16	1,299	3,217	5,344	6,292	7,287	10,042
24	J273	88.39	2,766	4,905	7,005	8,272	9,443	13,360
25	J282	244.48	5,966	9,556	13,043	20,988	24,183	31,748
26	J289	346.53	7,916	12,942	17,870	25,991	29,771	39,330
27	J294	20.43	2,084	3,024	3,884	4,289	4,842	6,313
28 29	J299 J302	387.31	8,651 3,578	14,016	19,270	27,655 7,412	31,486	41,459 11,116
30	J307	33.93 32.88	1,131	5,138 2,096	6,554 3,029	3,454	8,696 3,711	5,357
31	J314	401.39	8,822	14,262	19,584	28,046	31,875	41,933
32	J321	49.37	1,488	2,748	3,953	5,691	6,005	8,443
33	J324	451.32	9,818	15,976	22,074	30,113	33,883	44,538
34	J329	466.77	9,984	16,225	22,405	30,515	34,259	44,993
35	JBen Creek DS	49.59	1,485	2,741	3,942	5,695	6,012	8,451
36	JQuemah Creek DS	99.26	660	1,561	2,708	6,097	7,238	10,161
37	JShade Creek DS	97.52	2,903	5,130	7,315	8,878	10,137	14,346
38	JStony US-Ben Creek	401.73	8,825	14,267	19,591	28,051	31,877	41,932
39	JStony US-Quemah Creek	145.22	5,313	8,016	10,519	14,949	17,042	21,644
40	JStony US-Shade Creek	249.01	6,013	9,623	13,127	21,099	24,301	31,880
41	JStony US-Wells Creek	77.83	3,348	5,019	6,609	9,204	10,477	13,324
42	Lk Stonycreek	25.26	472	838	1,222	1,919	2,104	2,927
43	NForkDam	9.82	392	771	1,144	1,329	1,383	2,003
44	Outlet1	468.19	9,995	16,240	22,425	30,532	34,202	44,921

B.	HEC-HMS MODEL OUTPUT TABLES

Project: Stoneycreek River Simulation Run: Run 2-yr

Basin Model: Stony-10yr Meteorologic Model: Met 2-yr Control Specifications: Control Porject Start of Run: 29Oct2007, 00:00 End of Run: 31Oct2007, 00:05 Compute Time: 03Feb2009, 12:21:13

C	0.52	0.47	0.17	0.25	0.84	0.93	06:0	0.74	0.70	62.0	0.73	0.74	0.50	0.73	0.52
00.44 7000+2000	Z9OC(Z007, 14:Z0	29Oct2007, 17:10	29Oct2007, 14:55	29Oct2007, 16:10	29Oct2007, 15:25	29Oct2007, 16:15	29Oct2007, 16:20	29Oct2007, 13:25	29Oct2007, 18:05	29Oct2007, 12:50	29Oct2007, 18:25	29Oct2007, 18:35	29Oct2007, 15:50	29Oct2007, 19:50	29Oct2007, 15:50
70,00	Z34.Z4	1277.06	47.81	397.05	804.39	1279.85	2076.69	3718.60	2514.31	2713.07	3953.02	4764.93	941.12	4998.10	1246.15
000000	3.9092000	38.2160400	3.8288000	24.7155000	9.9661000	16.6090000	26.6017844	24.3644000	59.7566044	13.8675000	94.8996044	115.5490044	22.3940000	126.3875044	28.4537015
00	3168	J171	J176	J179	J182	J187	J192	J197	J200	J207	J212	J217	J222	J225	J230

Page 1

J239	43.7412800	882.18	29Oct2007, 15:35	0.28
J244	36.8165015	1521.55	29Oct2007, 16:10	0.51
J249	29.4239000	649.55	29Oct2007, 17:45	0.37
J252	68.8721560	2103.97	29Oct2007, 16:35	0.44
J257	13.1739000	0.00	29Oct2007, 00:00	0.00
J262	85.9936476	1299.22	29Oct2007, 16:40	0.23
J265	57.0895800	1020.25	29Oct2007, 16:20	0.28
J270	71.1585800	1299.04	29Oct2007, 16:25	0.28
J273	88.3907560	2766.06	29Oct2007, 17:40	0.46
J282	244.4784520	5966.49	29Oct2007, 23:30	0.50
J289	346.5263080	7916.16	29Oct2007, 22:35	0.49
J294	20.4305000	2083.87	29Oct2007, 14:20	06.0
J299	387.3064080	8650.75	29Oct2007, 22:35	0.53
J302	33.9296000	3578.14	29Oct2007, 14:55	0.97
J307	32.8777000	1131.21	29Oct2007, 16:30	0.46
J314	401.3895080	8821.52	29Oct2007, 22:55	0.54
J321	49.3666400	1488.43	29Oct2007, 19:10	0.50
J324	451.3185980	9818.33	29Oct2007, 22:35	0.54
J329	466.7654980	9984.26	29Oct2007, 23:10	0.54
JBen Creek DS	49.5918500	1484.77	29Oct2007, 19:45	0.50
JQuemah Creek DS	99.2579476	660.31	30Oct2007, 00:20	0.19

Page 2

JShade Creek DS	97.5205560	2902.56	29Oct2007, 19:15	0.46
JStony US-Ben Creek	401.7267480	8825.40	29Oct2007, 22:55	0.54
JStony US-Quemah Creek	145.2205044	5312.90	29Oct2007, 23:25	0.71
JStony US-Shade Creek	249.0057520	6013.21	29Oct2007, 23:55	0.50
JStony US-Wells Creek	77.8336044	3348.28	29Oct2007, 18:50	0.73
Lk Stonycreek	25.2596200	471.50	29Oct2007, 18:40	0.61
NForkDam	9.8185000	391.64	29Oct2007, 15:15	0.41
Outlet1	468.1926980	9994.96	29Oct2007, 23:35	0.54
R100	32.8777000	1118.00	29Oct2007, 17:15	0.46
R120	9.8185000	350.98	29Oct2007, 16:30	0.41
R1330	3.8288000	37.64	29Oct2007, 18:20	0.17
R140	387.3064080	8646.82	29Oct2007, 22:55	0.53
R1440	3.9092000	231.31	29Oct2007, 15:05	0.52
R150	33.9296000	3543.69	29Oct2007, 15:35	0.97
R1520	85.9936476	1299.12	29Oct2007, 16:40	0.23
R1560	24.3644000	455.53	29Oct2007, 19:05	0.60
R160	20.4305000	2058.52	29Oct2007, 15:05	0:90
R20	466.7654980	9978.76	29Oct2007, 23:35	0.54
R200	346.5263080	7912.45	29Oct2007, 22:55	0.49
R210	244.4784520	5965.08	29Oct2007, 23:55	0.50
R220	88.3907560	2740.66	29Oct2007, 19:20	0.46

Page 3

57.0895800	1019.10	29Oct2007, 16:35	0.28
94.5898476	617.70	30Oct2007, 01:15	0.18
71.1585800	1297.53	29Oct2007, 16:40	0.28
13.1739000	0.00	29Oct2007, 00:00	0.00
68.8721560	2088.70	29Oct2007, 17:55	0.44
36.8165015	1521.17	29Oct2007, 16:10	0.51
29.4239000	648.55	29Oct2007, 18:30	0.37
43.7412800	878.06	29Oct2007, 16:05	0.28
24.7155000	397.01	29Oct2007, 16:10	0.25
126.3875044	4977.74	29Oct2007, 23:50	0.72
28.4537015	1239.03	29Oct2007, 16:25	0.52
22.3940000	938.79	29Oct2007, 16:10	0.50
115.5490044	4749.06	29Oct2007, 20:00	0.74
49.3666400	1482.22	29Oct2007, 19:45	0.50
94.8996044	3944.26	29Oct2007, 19:05	0.73
13.8675000	2523.16	29Oct2007, 13:30	0.79
59.7566044	2495.17	29Oct2007, 19:20	0.70
25.2596200	293.94	30Oct2007, 05:30	0.45
451.3185980	9808.97	29Oct2007, 23:10	0.53
26.6017844	2043.83	29Oct2007, 18:10	0.90
16.6090000	1279.49	29Oct2007, 16:15	0.93

Page 4

R620	9.9661000	796.20	29Oct2007, 16:25	0.84
R80	401.3895080	8821.34	29Oct2007, 22:55	0.54
R90	38.2160400	1242.08	29Oct2007, 19:20	0.47
Reservoir-Indian Lake	24.3644000	455.53	29Oct2007, 19:05	0.60
Reservoir-Lake Gloria	3.8288000	37.68	29Oct2007, 17:45	0.17
Reservoir-Lake Stonycreek	25.2596200	293.94	30Oct2007, 05:30	0.45
Reservoir-North Fork	9.8185000	391.64	29Oct2007, 15:15	0.41
Reservoir-Quemahoning	94.5898476	617.74	30Oct2007, 01:00	0.18
Reservoir-Stoughton Lake	9.6825000	113.85	29Oct2007, 19:00	0.19
W1000	7.2782000	0.00	29Oct2007, 00:00	0.00
W1010	2.5590000	81.93	29Oct2007, 14:45	0.33
W1020	0.0727545	6.31	29Oct2007, 12:25	0.33
W1040	8.8149000	220.46	29Oct2007, 16:10	0.33
W1050	6.4345000	339.77	29Oct2007, 14:45	0.51
W1060	1.9283000	85.98	29Oct2007, 13:45	0.36
W1070	0.3167800	3.23	29Oct2007, 14:05	0.13
W1080	18.7090000	501.53	29Oct2007, 15:20	0.33
W1090	19.0440000	322.26	29Oct2007, 16:10	0.25
W1100	3.5546000	233.84	29Oct2007, 14:25	0.57
W1110	6.0173000	343.36	29Oct2007, 15:00	0.58
W1120	0.0424015	14.84	29Oct2007, 12:20	06.0

Page 5

Project: Stoneycreek River Simulation Run: Run 5-yr

Start of Run: 29Oct2007, 00:00 End of Run: 31Oct2007, 00:05 Compute Time: 03Feb2009, 11:43:16

Basin Model: Stony-10yr Meteorologic Model: Met 5-yr Control Specifications: Control Porject

Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Volume
Element		(CFS)		(NI)
J168	3.9092000	421.20	29Oct2007, 14:10	0.86
J171	38.2160400	2386.78	29Oct2007, 16:30	0.79
J176	3.8288000	158.96	29Oct2007, 14:05	0.41
J179	24.7155000	991.11	29Oct2007, 15:35	0.52
J182	9.9661000	1215.65	29Oct2007, 15:20	1.24
J187	16.6090000	1894.06	29Oct2007, 16:15	1.36
J192	26.6017844	3098.27	29Oct2007, 16:15	1.31
J197	24.3644000	5954.10	29Oct2007, 13:20	1.14
J200	59.7566044	3780.44	29Oct2007, 18:00	1.08
J207	13.8675000	4301.65	29Oct2007, 12:50	1.20
J212	94.8996044	5930.07	29Oct2007, 18:20	1.11
J217	115.5490044	7135.26	29Oct2007, 18:25	1.12
J222	22.3940000	1670.84	29Oct2007, 15:40	0.84
J225	126.3875044	7510.85	29Oct2007, 18:30	1.11
J230	28.4537015	2197.42	29Oct2007, 15:40	0.86

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	2115.57	29Oct2007, 15:15	0.57
J244	36.8165015	2674.02	29Oct2007, 16:00	0.84
J249	29.4239000	1215.01	29Oct2007, 17:25	99.0
J252	68.8721560	3795.47	29Oct2007, 16:25	0.76
J257	13.1739000	0.00	29Oct2007, 00:00	0.00
J262	85.9936476	3212.94	29Oct2007, 16:05	0.47
J265	57.0895800	2563.96	29Oct2007, 15:45	0.57
J270	71.1585800	3216.72	29Oct2007, 15:55	0.57
J273	88.3907560	4904.54	29Oct2007, 17:30	0.78
J282	244.4784520	9555.56	29Oct2007, 22:50	0.81
J289	346.5263080	12941.70	29Oct2007, 22:10	0.80
J294	20.4305000	3023.79	29Oct2007, 14:20	1.29
J299	387.3064080	14016.03	29Oct2007, 22:15	0.85
J302	33.9296000	5137.69	29Oct2007, 14:55	1.38
J307	32.8777000	2095.71	29Oct2007, 16:00	0.79
J314	401.3895080	14261.53	29Oct2007, 22:30	0.86
J321	49.3666400	2748.41	29Oct2007, 18:30	0.83
J324	451.3185980	15975.98	29Oct2007, 22:00	0.86
J329	466.7654980	16224.96	29Oct2007, 22:35	0.86
JBen Creek DS	49.5918500	2740.79	29Oct2007, 19:05	0.83
JQuemah Creek DS	99.2579476	1561.27	29Oct2007, 21:35	0.41

Page 2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	5129.59	29Oct2007, 19:05	0.77
JStony US-Ben Creek	401.7267480	14266.57	29Oct2007, 22:35	0.86
JStony US-Quemah Creek	145.2205044	8015.52	29Oct2007, 22:55	1.08
JStony US-Shade Creek	249.0057520	9622.78	29Oct2007, 23:15	0.81
JStony US-Wells Creek	77.8336044	5018.97	29Oct2007, 18:45	1.11
Lk Stonycreek	25.2596200	837.65	29Oct2007, 17:15	0.97
NForkDam	9.8185000	771.10	29Oct2007, 14:40	0.71
Outlet1	468.1926980	16240.40	29Oct2007, 23:00	0.86
R100	32.8777000	2081.36	29Oct2007, 16:40	0.79
R120	9.8185000	748.31	29Oct2007, 15:50	0.71
R1330	3.8288000	103.11	29Oct2007, 16:45	0.41
R140	387.3064080	14009.73	29Oct2007, 22:30	0.85
R1440	3.9092000	414.87	29Oct2007, 15:00	0.86
R150	33.9296000	5085.62	29Oct2007, 15:35	1.38
R1520	85.9936476	3213.29	29Oct2007, 16:10	0.47
R1560	24.3644000	810.91	29Oct2007, 17:25	96.0
R160	20.4305000	2987.71	29Oct2007, 15:00	1.29
R20	466.7654980	16217.31	29Oct2007, 23:00	0.86
R200	346.5263080	12934.89	29Oct2007, 22:30	0.80
R210	244.4784520	9551.52	29Oct2007, 23:15	0.81
R220	88.3907560	4856.34	29Oct2007, 19:10	0.78

Page 3

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	2558.80	29Oct2007, 16:00	0.57
R270	94.5898476	1483.09	29Oct2007, 21:50	0.40
R280	71.1585800	3210.46	29Oct2007, 16:05	0.57
R290	13.1739000	0.00	29Oct2007, 00:00	0.00
R310	68.8721560	3763.90	29Oct2007, 17:45	0.76
R330	36.8165015	2673.16	29Oct2007, 16:05	0.84
R340	29.4239000	1212.93	29Oct2007, 18:00	99.0
R370	43.7412800	2104.02	29Oct2007, 15:40	0.57
R390	24.7155000	86.066	29Oct2007, 15:40	0.52
R410	126.3875044	7484.57	29Oct2007, 23:25	1.10
R420	28.4537015	2183.89	29Oct2007, 16:15	0.86
R430	22.3940000	1665.80	29Oct2007, 16:00	0.84
R480	115.5490044	7115.97	29Oct2007, 19:50	1.12
R50	49.3666400	2736.59	29Oct2007, 19:05	0.83
R520	94.8996044	5915.89	29Oct2007, 19:00	1.11
R560	13.8675000	4005.07	29Oct2007, 13:30	1.20
R570	59.7566044	3754.41	29Oct2007, 19:20	1.07
R580	25.2596200	534.46	30Oct2007, 03:20	0.77
R60	451.3185980	15962.52	29Oct2007, 22:40	0.86
R600	26.6017844	3047.38	29Oct2007, 18:10	1.31
R610	16.6090000	1893.94	29Oct2007, 16:15	1.36

Page 4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	1203.41	29Oct2007, 16:20	1.24
R80	401.3895080	14260.87	29Oct2007, 22:35	0.86
R90	38.2160400	2330.37	29Oct2007, 18:40	0.79
Reservoir-Indian Lake	24.3644000	810.91	29Oct2007, 17:25	96.0
Reservoir-Lake Gloria	3.8288000	103.34	29Oct2007, 16:10	0.41
Reservoir-Lake Stonycreek	25.2596200	534.46	30Oct2007, 03:15	0.77
Reservoir-North Fork	9.8185000	771.10	29Oct2007, 14:40	0.71
Reservoir-Quemahoning	94.5898476	1483.23	29Oct2007, 21:40	0.40
Reservoir-Stoughton Lake	9.6825000	323.61	29Oct2007, 16:35	0.46
W1000	7.2782000	0.00	29Oct2007, 00:00	0.00
W1010	2.5590000	168.49	29Oct2007, 14:30	09:0
W1020	0.0727545	14.79	29Oct2007, 12:20	09:0
W1040	8.8149000	440.31	29Oct2007, 15:50	09:0
W1050	6.4345000	611.83	29Oct2007, 14:35	0.84
W1060	1.9283000	177.55	29Oct2007, 13:40	0.64
W1070	0.3167800	14.18	29Oct2007, 13:05	0.35
W1080	18.7090000	1142.57	29Oct2007, 15:00	0.64
W1090	19.0440000	811.76	29Oct2007, 15:40	0.52
W1100	3.5546000	400.71	29Oct2007, 14:20	0.92
W1110	6.0173000	593.65	29Oct2007, 14:55	0.93
W1120	0.0424015	23.11	29Oct2007, 12:20	1.34

Page 5

Project: Stoneycreek River Simulation Run: Run 10-yr

Basin Model: Stony-10yr Meteorologic Model: Met 10-yr Control Specifications: Control Porject Start of Run: 29Oct2007, 00:00 End of Run: 31Oct2007, 00:05 Compute Time: 03Feb2009, 10:50:03

Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Volume
Element	(MI2)	(CFS)		(NI)
J168	3.9092000	08:509	29Oct2007, 14:10	1.18
J171	38.2160400	3452.49	29Oct2007, 16:20	1.10
J176	3.8288000	302.74	29Oct2007, 13:55	0.66
J179	24.7155000	1686.34	29Oct2007, 15:20	0.80
J182	9.9661000	1593.24	29Oct2007, 15:15	1.60
J187	16.6090000	2451.77	29Oct2007, 16:10	1.74
J192	26.6017844	4030.17	29Oct2007, 16:15	1.69
J197	24.3644000	8021.64	29Oct2007, 13:20	1.50
J200	59.7566044	5022.21	29Oct2007, 18:00	1.43
J207	13.8675000	5752.99	29Oct2007, 12:50	1.57
J212	94.8996044	7783.67	29Oct2007, 18:20	1.46
J217	115.5490044	9326.56	29Oct2007, 18:25	1.47
J222	22.3940000	2388.69	29Oct2007, 15:35	1.15
J225	126.3875044	9866.88	29Oct2007, 18:25	1.46
J230	28.4537015	3127.48	29Oct2007, 15:35	1.18

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	3490.54	29Oct2007, 15:05	0.86
J244	36.8165015	3800.42	29Oct2007, 15:55	1.16
J249	29.4239000	1788.67	29Oct2007, 17:00	0.94
J252	68.8721560	5471.10	29Oct2007, 16:20	1.06
J257	13.1739000	15.36	30Oct2007, 00:35	0.01
J262	85.9936476	5336.48	29Oct2007, 15:55	0.71
J265	57.0895800	4288.15	29Oct2007, 15:35	98.0
J270	71.1585800	5344.35	29Oct2007, 15:40	0.86
J273	88.3907560	7005.09	29Oct2007, 17:25	1.09
J282	244.4784520	13042.96	29Oct2007, 22:30	1.11
J289	346.5263080	17870.44	29Oct2007, 21:55	1.10
J294	20.4305000	3883.95	29Oct2007, 14:20	1.64
J299	387.3064080	19270.07	29Oct2007, 21:55	1.16
J302	33.9296000	6554.29	29Oct2007, 14:55	1.75
J307	32.8777000	3029.36	29Oct2007, 15:55	1.09
J314	401.3895080	19584.11	29Oct2007, 22:10	1.17
J321	49.3666400	3952.74	29Oct2007, 18:20	1.15
J324	451.3185980	22074.30	29Oct2007, 21:30	1.17
J329	466.7654980	22405.15	29Oct2007, 22:05	1.17
JBen Creek DS	49.5918500	3942.37	29Oct2007, 18:50	1.15
JQuemah Creek DS	99.2579476	2708.10	29Oct2007, 20:15	0.65

Page 2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	7314.54	29Oct2007, 19:00	1.08
JStony US-Ben Creek	401.7267480	19590.68	29Oct2007, 22:15	1.17
JStony US-Quemah Creek	145.2205044	10518.87	29Oct2007, 22:45	1.42
JStony US-Shade Creek	249.0057520	13127.12	29Oct2007, 22:55	1.11
JStony US-Wells Creek	77.8336044	80.6099	29Oct2007, 18:45	1.46
Lk Stonycreek	25.2596200	1221.66	29Oct2007, 16:40	1.31
NForkDam	9.8185000	1143.96	29Oct2007, 14:35	1.00
Outlet1	468.1926980	22425.41	29Oct2007, 22:30	1.17
R100	32.8777000	3011.19	29Oct2007, 16:30	1.09
R120	9.8185000	1120.51	29Oct2007, 15:40	1.00
R1330	3.8288000	203.95	29Oct2007, 15:55	0.66
R140	387.3064080	19261.02	29Oct2007, 22:10	1.16
R1440	3.9092000	595.80	29Oct2007, 14:55	1.18
R150	33.9296000	6485.67	29Oct2007, 15:35	1.75
R1520	85.9936476	5335.55	29Oct2007, 16:00	0.71
R1560	24.3644000	1185.67	29Oct2007, 16:45	1.30
R160	20.4305000	3838.50	29Oct2007, 15:00	1.64
R20	466.7654980	22396.01	29Oct2007, 22:30	1.17
R200	346.5263080	17860.78	29Oct2007, 22:10	1.10
R210	244.4784520	13035.39	29Oct2007, 22:55	1.11
R220	88.3907560	6934.89	29Oct2007, 19:05	1.09

Page 3

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	4278.96	29Oct2007, 15:45	0.86
R270	94.5898476	2587.78	29Oct2007, 20:25	0.63
R280	71.1585800	5333.39	29Oct2007, 15:55	0.86
R290	13.1739000	15.33	30Oct2007, 00:35	0.01
R310	68.8721560	5423.11	29Oct2007, 17:40	1.06
R330	36.8165015	3799.28	29Oct2007, 16:00	1.16
R340	29.4239000	1785.81	29Oct2007, 17:45	0.94
R370	43.7412800	3469.36	29Oct2007, 15:35	0.86
R390	24.7155000	1686.21	29Oct2007, 15:25	0.80
R410	126.3875044	9806.60	29Oct2007, 23:10	1.44
R420	28.4537015	3107.80	29Oct2007, 16:15	1.18
R430	22.3940000	2380.48	29Oct2007, 15:55	1.15
R480	115.5490044	9304.82	29Oct2007, 19:50	1.47
R50	49.3666400	3936.74	29Oct2007, 18:50	1.15
R520	94.8996044	7765.44	29Oct2007, 19:00	1.46
R560	13.8675000	5360.01	29Oct2007, 13:30	1.57
R570	59.7566044	4983.38	29Oct2007, 19:15	1.42
R580	25.2596200	779.05	30Oct2007, 02:10	1.09
R60	451.3185980	22058.83	29Oct2007, 22:10	1.17
R600	26.6017844	3963.04	29Oct2007, 18:05	1.69
R610	16.6090000	2451.14	29Oct2007, 16:15	1.74

Page 4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	1577.04	29Oct2007, 16:15	1.60
R80	401.3895080	19583.56	29Oct2007, 22:15	1.17
R90	38.2160400	3381.84	29Oct2007, 18:30	1.10
Reservoir-Indian Lake	24.3644000	1185.69	29Oct2007, 16:45	1.30
Reservoir-Lake Gloria	3.8288000	205.29	29Oct2007, 15:15	99.0
Reservoir-Lake Stonycreek	25.2596200	20.627	30Oct2007, 02:05	1.09
Reservoir-North Fork	9.8185000	1143.96	29Oct2007, 14:35	1.00
Reservoir-Quemahoning	94.5898476	2588.19	29Oct2007, 20:15	0.63
Reservoir-Stoughton Lake	9.6825000	592.19	29Oct2007, 15:55	0.73
W1000	7.2782000	14.77	30Oct2007, 00:30	0.01
W1010	2.5590000	259.58	29Oct2007, 14:25	0.87
W1020	0.0727545	23.87	29Oct2007, 12:20	0.86
W1040	8.8149000	669.37	29Oct2007, 15:40	0.87
W1050	6.4345000	880.99	29Oct2007, 14:30	1.16
W1060	1.9283000	273.88	29Oct2007, 13:35	0.91
W1070	0.3167800	31.42	29Oct2007, 12:55	0.58
W1080	18.7090000	1833.21	29Oct2007, 14:50	0.95
W1090	19.0440000	1364.73	29Oct2007, 15:25	0.80
W1100	3.5546000	561.58	29Oct2007, 14:20	1.24
W1110	6.0173000	836.45	29Oct2007, 14:50	1.27
W1120	0.0424015	30.53	29Oct2007, 12:20	1.74

Page 5

Project: Stoneycreek River Simulation Run: Run 25-yr

Basin Model: stony-25-yr Meteorologic Model: Met 25-yr Control Specifications: Control Porject Start of Run: 29Oct2007, 00:00 End of Run: 31Oct2007, 00:05 Compute Time: 05Feb2009, 11:39:50

Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Volume
Element	(MI2)	(CFS)		(NI)
J168	3.9092000	720.75	29Oct2007, 14:10	1.44
J171	38.2160400	4091.51	29Oct2007, 15:20	1.34
J176	3.8288000	407.79	29Oct2007, 15:35	1.19
J179	24.7155000	2065.46	29Oct2007, 18:05	1.37
J182	9.9661000	2202.26	29Oct2007, 15:15	2.19
J187	16.6090000	3341.91	29Oct2007, 16:10	2.35
J192	26.6017844	5521.49	29Oct2007, 16:10	2.29
J197	24.3644000	11340.53	29Oct2007, 13:20	2.09
J200	59.7566044	7044.10	29Oct2007, 18:00	1.99
J207	13.8675000	8101.06	29Oct2007, 12:45	2.17
J212	94.8996044	10823.08	29Oct2007, 18:20	2.03
J217	115.5490044	12989.78	29Oct2007, 18:15	2.04
J222	22.3940000	2691.24	29Oct2007, 15:40	1.35
J225	126.3875044	13869.93	29Oct2007, 18:00	2.03
J230	28.4537015	3573.38	29Oct2007, 15:35	1.38

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	4037.60	29Oct2007, 17:55	1.44
J244	36.8165015	4481.00	29Oct2007, 15:30	1.36
J249	29.4239000	1948.84	29Oct2007, 17:30	1.07
J252	68.8721560	6237.24	29Oct2007, 16:00	1.22
J257	13.1739000	1705.90	29Oct2007, 15:30	1.47
J262	85.9936476	7239.56	29Oct2007, 19:05	1.44
J265	57.0895800	5109.67	29Oct2007, 18:35	1.44
J270	71.1585800	6291.79	29Oct2007, 19:00	1.44
J273	88.3907560	8271.65	29Oct2007, 16:30	1.26
J282	244.4784520	20987.63	29Oct2007, 21:45	1.75
J289	346.5263080	25990.55	29Oct2007, 21:25	1.61
J294	20.4305000	4289.41	29Oct2007, 14:20	1.83
J299	387.3064080	27655.18	29Oct2007, 21:35	1.64
J302	33.9296000	7411.83	29Oct2007, 14:45	1.97
J307	32.8777000	3453.77	29Oct2007, 15:30	1.33
J314	401.3895080	28046.29	29Oct2007, 21:55	1.63
J321	49.3666400	5690.55	29Oct2007, 15:25	1.40
J324	451.3185980	30113.37	29Oct2007, 21:50	1.61
J329	466.7654980	30515.22	29Oct2007, 22:25	1.61
JBen Creek DS	49.5918500	5695.42	29Oct2007, 15:35	1.40
JQuemah Creek DS	99.2579476	6096.70	29Oct2007, 22:15	1.43

Page 2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	8878.24	29Oct2007, 17:15	1.24
JStony US-Ben Creek	401.7267480	28051.47	29Oct2007, 22:00	1.63
JStony US-Quemah Creek	145.2205044	14948.92	29Oct2007, 21:30	1.97
JStony US-Shade Creek	249.0057520	21099.07	29Oct2007, 22:05	1.75
JStony US-Wells Creek	77.8336044	9204.29	29Oct2007, 18:45	2.03
Lk Stonycreek	25.2596200	1918.99	29Oct2007, 16:05	1.87
NForkDam	9.8185000	1328.94	29Oct2007, 14:40	1.21
Outlet1	468.1926980	30532.49	29Oct2007, 22:50	1.61
R100	32.8777000	3447.42	29Oct2007, 15:40	1.33
R120	9.8185000	1325.02	29Oct2007, 14:55	1.21
R1330	3.8288000	348.04	29Oct2007, 18:00	1.19
R140	387.3064080	27637.67	29Oct2007, 22:00	1.63
R1440	3.9092000	718.77	29Oct2007, 14:25	1.44
R150	33.9296000	7373.88	29Oct2007, 15:05	1.97
R1520	85.9936476	7239.32	29Oct2007, 19:05	1.44
R1560	24.3644000	1865.86	29Oct2007, 16:15	1.86
R160	20.4305000	4267.32	29Oct2007, 14:40	1.83
R20	466.7654980	30496.66	29Oct2007, 22:50	1.61
R200	346.5263080	25972.44	29Oct2007, 21:45	1.60
R210	244.4784520	20976.86	29Oct2007, 22:05	1.75
R220	88.3907560	8229.86	29Oct2007, 17:20	1.26

Page 3

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	5100.64	29Oct2007, 19:05	1.44
R270	94.5898476	5924.40	29Oct2007, 22:20	1.42
R280	71.1585800	6280.81	29Oct2007, 19:25	1.44
R290	13.1739000	1705.44	29Oct2007, 15:30	1.47
R310	68.8721560	6209.86	29Oct2007, 16:40	1.22
R330	36.8165015	4480.56	29Oct2007, 15:35	1.36
R340	29.4239000	1946.93	29Oct2007, 17:45	1.07
R370	43.7412800	4022.28	29Oct2007, 18:55	1.44
R390	24.7155000	2064.86	29Oct2007, 18:10	1.37
R410	126.3875044	13769.95	29Oct2007, 21:50	2.01
R420	28.4537015	3561.69	29Oct2007, 15:55	1.38
R430	22.3940000	2687.06	29Oct2007, 15:50	1.35
R480	115.5490044	12968.16	29Oct2007, 19:20	2.04
R50	49.3666400	5683.64	29Oct2007, 15:35	1.40
R520	94.8996044	10799.08	29Oct2007, 18:50	2.02
R560	13.8675000	7526.49	29Oct2007, 13:30	2.17
R570	59.7566044	6991.09	29Oct2007, 19:15	1.98
R580	25.2596200	1197.68	30Oct2007, 00:55	1.61
R60	451.3185980	30082.36	29Oct2007, 22:25	1.61
R600	26.6017844	5428.42	29Oct2007, 18:05	2.29
R610	16.6090000	3341.25	29Oct2007, 16:10	2.35

Page 4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	2179.29	29Oct2007, 16:15	2.19
R80	401.3895080	28042.70	29Oct2007, 22:00	1.63
R90	38.2160400	4079.39	29Oct2007, 15:50	1.34
Reservoir-Indian Lake	24.3644000	1865.88	29Oct2007, 16:10	1.86
Reservoir-Lake Gloria	3.8288000	351.74	29Oct2007, 16:45	1.19
Reservoir-Lake Stonycreek	25.2596200	1197.69	30Oct2007, 00:50	1.61
Reservoir-North Fork	9.8185000	1328.94	29Oct2007, 14:40	1.21
Reservoir-Quemahoning	94.5898476	5925.60	29Oct2007, 22:10	1.42
Reservoir-Stoughton Lake	9.6825000	863.38	29Oct2007, 18:15	1.29
W1000	7.2782000	1123.71	29Oct2007, 15:05	1.50
W1010	2.5590000	265.97	29Oct2007, 14:35	0.97
W1020	0.0727545	23.48	29Oct2007, 12:20	0.97
W1040	8.8149000	698.74	29Oct2007, 15:55	96.0
W1050	6.4345000	984.87	29Oct2007, 14:35	1.35
W1060	1.9283000	280.33	29Oct2007, 13:40	1.02
W1070	0.3167800	49.27	29Oct2007, 13:40	1.10
W1080	18.7090000	1983.32	29Oct2007, 17:30	1.55
W1090	19.0440000	1585.90	29Oct2007, 18:25	1.37
W1100	3.5546000	773.99	29Oct2007, 14:15	1.68
W1110	6.0173000	957.80	29Oct2007, 14:55	1.50
W1120	0.0424015	37.49	29Oct2007, 12:20	2.12

Page 5

Project: Stoneycreek River Simulation Run: Run 50-yr

Basin Model: StonyHMS-100yr Meteorologic Model: Met 50-yr Control Specifications: Control Porject Start of Run: 29Oct2007, 00:00 End of Run: 31Oct2007, 00:05 Compute Time: 07Dec2007, 12:30:13

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J168	3.9092000	99.62	29Oct2007, 14:15	1.60
J171	38.2160400	4387.07	29Oct2007, 15:35	1.48
J176	3.8288000	461.01	29Oct2007, 15:40	1.37
J179	24.7155000	2385.77	29Oct2007, 18:00	1.59
J182	9.9661000	2497.22	29Oct2007, 15:15	2.48
J187	16.6090000	3822.26	29Oct2007, 16:10	2.68
J192	26.6017844	6295.30	29Oct2007, 16:15	2.61
J197	24.3644000	12326.77	29Oct2007, 13:20	2.28
J200	59.7566044	8022.92	29Oct2007, 18:00	2.25
J207	13.8675000	8866.35	29Oct2007, 12:50	2.38
J212	94.8996044	12303.55	29Oct2007, 18:25	2.29
J217	115.5490044	14786.29	29Oct2007, 18:15	2.30
J222	22.3940000	3078.50	29Oct2007, 15:40	1.56
J225	126.3875044	15710.42	29Oct2007, 17:55	2.29
J230	28.4537015	4094.02	29Oct2007, 15:35	1.60

Page 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	4677.40	29Oct2007, 17:55	1.68
J244	36.8165015	5133.40	29Oct2007, 15:35	1.57
J249	29.4239000	2199.83	29Oct2007, 17:30	1.22
J252	68.8721560	7092.54	29Oct2007, 16:00	1.41
J257	13.1739000	1965.27	29Oct2007, 15:35	1.71
J262	85.9936476	8391.38	29Oct2007, 19:10	1.68
J265	57.0895800	5917.22	29Oct2007, 18:40	1.67
J270	71.1585800	7287.21	29Oct2007, 19:00	1.68
J273	88.3907560	9443.34	29Oct2007, 16:35	1.46
J282	244.4784520	24183.37	29Oct2007, 21:35	2.00
J289	346.5263080	29771.04	29Oct2007, 21:40	1.84
J294	20.4305000	4842.25	29Oct2007, 14:20	2.09
J299	387.3064080	31486.09	29Oct2007, 22:25	1.88
J302	33.9296000	8695.48	29Oct2007, 14:45	2.33
J307	32.8777000	3710.88	29Oct2007, 15:40	1.47
J314	401.3895080	31874.79	29Oct2007, 23:15	1.87
J321	49.3666400	6005.36	29Oct2007, 15:45	1.56
J324	451.3185980	33882.56	29Oct2007, 23:20	1.84
J329	466.7654980	34259.18	30Oct2007, 00:45	1.86
JBen Creek DS	49.5918500	6011.61	29Oct2007, 15:55	1.56
JQuemah Creek DS	99.2579476	7238.08	29Oct2007, 22:10	1.68

Page 2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	10136.48	29Oct2007, 17:15	1.44
JStony US-Ben Creek	401.7267480	31876.85	29Oct2007, 23:30	1.87
JStony US-Quemah Creek	145.2205044	17042.14	29Oct2007, 21:10	2.23
JStony US-Shade Creek	249.0057520	24301.08	29Oct2007, 22:30	2.00
JStony US-Wells Creek	77.8336044	10477.07	29Oct2007, 18:45	2.29
Lk Stonycreek	25.2596200	2104.10	29Oct2007, 16:15	2.05
NForkDam	9.8185000	1383.13	29Oct2007, 14:45	1.32
Outlet1	468.1926980	34202.21	30Oct2007, 01:45	1.86
R100	32.8777000	3706.98	29Oct2007, 15:55	1.47
R120	9.8185000	1376.42	29Oct2007, 15:05	1.32
R1330	3.8288000	409.00	29Oct2007, 17:50	1.37
R140	387.3064080	31437.58	29Oct2007, 23:20	1.88
R1440	3.9092000	770.68	29Oct2007, 14:30	1.60
R150	33.9296000	8653.57	29Oct2007, 15:00	2.33
R1520	85.9936476	8391.43	29Oct2007, 19:10	1.68
R1560	24.3644000	2044.88	29Oct2007, 16:25	2.04
R160	20.4305000	4817.60	29Oct2007, 14:40	2.09
R20	466.7654980	34197.45	30Oct2007, 01:45	1.85
R200	346.5263080	29722.85	29Oct2007, 22:35	1.83
R210	244.4784520	24157.72	29Oct2007, 22:30	2.00
R220	88.3907560	9396.38	29Oct2007, 17:25	1.46

Page 3

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	5905.70	29Oct2007, 19:10	1.67
R270	94.5898476	7030.65	29Oct2007, 22:15	1.66
R280	71.1585800	7274.37	29Oct2007, 19:30	1.68
R290	13.1739000	1965.25	29Oct2007, 15:35	1.71
R310	68.8721560	7062.15	29Oct2007, 16:40	1.41
R330	36.8165015	5132.07	29Oct2007, 15:35	1.57
R340	29.4239000	2197.19	29Oct2007, 17:55	1.22
R370	43.7412800	4658.03	29Oct2007, 18:55	1.68
R390	24.7155000	2384.39	29Oct2007, 18:10	1.59
R410	126.3875044	15627.13	29Oct2007, 21:40	2.27
R420	28.4537015	4082.24	29Oct2007, 15:55	1.60
R430	22.3940000	3073.95	29Oct2007, 15:55	1.56
R480	115.5490044	14755.46	29Oct2007, 19:20	2.30
R50	49.3666400	5998.80	29Oct2007, 15:55	1.56
R520	94.8996044	12281.53	29Oct2007, 18:50	2.28
R560	13.8675000	8252.84	29Oct2007, 13:30	2.38
R570	59.7566044	7961.14	29Oct2007, 19:20	2.23
R580	25.2596200	1346.81	30Oct2007, 00:50	1.78
R60	451.3185980	33797.46	30Oct2007, 00:50	1.83
R600	26.6017844	6189.19	29Oct2007, 18:05	2.61
R610	16.6090000	3821.02	29Oct2007, 16:10	2.68

Page 4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	2471.54	29Oct2007, 16:15	2.48
R80	401.3895080	31867.18	29Oct2007, 23:30	1.87
R90	38.2160400	4368.38	29Oct2007, 16:15	1.48
Reservoir-Indian Lake	24.3644000	2044.85	29Oct2007, 16:20	2.04
Reservoir-Lake Gloria	3.8288000	417.62	29Oct2007, 16:40	1.37
Reservoir-Lake Stonycreek	25.2596200	1346.81	30Oct2007, 00:50	1.78
Reservoir-North Fork	9.8185000	1383.13	29Oct2007, 14:45	1.32
Reservoir-Quemahoning	94.5898476	7031.90	29Oct2007, 22:00	1.66
Reservoir-Stoughton Lake	9.6825000	996.18	29Oct2007, 18:15	1.50
W1000	7.2782000	1295.02	29Oct2007, 15:05	1.75
W1010	2.5590000	291.27	29Oct2007, 14:40	1.10
W1020	0.0727545	23.64	29Oct2007, 12:25	1.09
W1040	8.8149000	772.63	29Oct2007, 16:00	1.10
W1050	6.4345000	1122.61	29Oct2007, 14:40	1.57
W1060	1.9283000	306.42	29Oct2007, 13:45	1.17
W1070	0.3167800	54.49	29Oct2007, 13:45	1.26
W1080	18.7090000	2299.56	29Oct2007, 17:35	1.81
W1090	19.0440000	1827.03	29Oct2007, 18:30	1.59
W1100	3.5546000	843.64	29Oct2007, 14:20	1.88
W1110	6.0173000	1102.95	29Oct2007, 14:55	1.75
W1120	0.0424015	44.34	29Oct2007, 12:20	2.49

Page 5

Project: Stoneycreek River Simulation Run: Run 100-yr

Start of Run: 29Oct2007, 00:00 End of Run: 31Oct2007, 00:05 Compute Time: 07Jan2008, 11:29:05

Basin Model: StonyHMS-100yr Meteorologic Model: Met 100-yr Control Specifications: Control Porject

Hydrologic	Drainage Area	Peak Discharge	Time of Peak	Volume
Element	(MI2)	(CFS)		(NI)
J168	3.9092000	1100.10	29Oct2007, 14:10	2.15
J171	38.2160400	6263.32	29Oct2007, 15:35	2.02
J176	3.8288000	669.31	29Oct2007, 15:30	1.89
J179	24.7155000	3336.16	29Oct2007, 17:50	2.14
J182	9.9661000	3152.71	29Oct2007, 15:15	3.10
J187	16.6090000	4768.18	29Oct2007, 16:10	3.32
J192	26.6017844	7887.71	29Oct2007, 16:10	3.24
J197	24.3644000	15947.20	29Oct2007, 13:20	2.89
J200	59.7566044	10251.35	29Oct2007, 18:00	2.85
J207	13.8675000	11412.95	29Oct2007, 12:45	3.01
J212	94.8996044	15623.37	29Oct2007, 18:20	2.89
J217	115.5490044	18714.11	29Oct2007, 18:15	2.91
J222	22.3940000	4341.72	29Oct2007, 15:35	2.11
J225	126.3875044	19949.35	29Oct2007, 17:55	2.89
J230	28.4537015	5744.96	29Oct2007, 15:30	2.15

Page 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	6448.19	29Oct2007, 17:45	2.24
J244	36.8165015	7215.89	29Oct2007, 15:30	2.12
J249	29.4239000	3207.26	29Oct2007, 17:25	1.71
J252	68.8721560	10130.28	29Oct2007, 15:55	1.93
J257	13.1739000	2718.47	29Oct2007, 15:25	2.28
J262	85.9936476	11527.46	29Oct2007, 19:00	2.24
J265	57.0895800	8174.21	29Oct2007, 18:25	2.23
J270	71.1585800	10041.77	29Oct2007, 18:50	2.24
J273	88.3907560	13359.93	29Oct2007, 16:25	1.98
J282	244.4784520	31747.54	29Oct2007, 21:15	2.59
J289	346.5263080	39329.53	29Oct2007, 21:30	2.41
J294	20.4305000	6313.19	29Oct2007, 14:20	2.67
J299	387.3064080	41459.05	29Oct2007, 22:15	2.45
J302	33.9296000	11116.00	29Oct2007, 14:40	2.94
J307	32.8777000	5357.44	29Oct2007, 15:30	2.00
J314	401.3895080	41932.82	29Oct2007, 23:05	2.44
J321	49.3666400	8443.34	29Oct2007, 15:35	2.11
J324	451.3185980	44537.64	29Oct2007, 23:10	2.41
J329	466.7654980	44992.45	30Oct2007, 00:35	2.42
JBen Creek DS	49.5918500	8450.54	29Oct2007, 15:45	2.11
JQuemah Creek DS	99.2579476	10160.62	29Oct2007, 21:40	2.24

Page 2

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	14345.68	29Oct2007, 17:10	1.96
JStony US-Ben Creek	401.7267480	41932.30	29Oct2007, 23:20	2.44
JStony US-Quemah Creek	145.2205044	21644.19	29Oct2007, 21:05	2.82
JStony US-Shade Creek	249.0057520	31880.06	29Oct2007, 22:15	2.58
JStony US-Wells Creek	77.8336044	13323.50	29Oct2007, 18:45	2.90
Lk Stonycreek	25.2596200	2926.98	29Oct2007, 15:55	2.65
NForkDam	9.8185000	2002.69	29Oct2007, 14:55	1.83
Outlet1	468.1926980	44920.50	30Oct2007, 01:30	2.42
R100	32.8777000	5338.56	29Oct2007, 15:45	2.00
R120	9.8185000	2000.52	29Oct2007, 15:15	1.83
R1330	3.8288000	627.06	29Oct2007, 17:25	1.89
R140	387.3064080	41393.12	29Oct2007, 23:05	2.44
R1440	3.9092000	1094.61	29Oct2007, 14:25	2.15
R150	33.9296000	11065.44	29Oct2007, 15:00	2.94
R1520	85.9936476	11527.90	29Oct2007, 19:00	2.24
R1560	24.3644000	2848.85	29Oct2007, 16:00	2.64
R160	20.4305000	6281.62	29Oct2007, 14:40	2.67
R20	466.7654980	44911.38	30Oct2007, 01:30	2.42
R200	346.5263080	39260.97	29Oct2007, 22:20	2.40
R210	244.4784520	31702.87	29Oct2007, 22:15	2.58
R220	88.3907560	13289.09	29Oct2007, 17:15	1.98

Page 3

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	8157.60	29Oct2007, 18:55	2.23
R270	94.5898476	9886.49	29Oct2007, 21:45	2.22
R280	71.1585800	10022.28	29Oct2007, 19:20	2.24
R290	13.1739000	2717.90	29Oct2007, 15:30	2.28
R310	68.8721560	10084.72	29Oct2007, 16:35	1.93
R330	36.8165015	7215.22	29Oct2007, 15:30	2.12
R340	29.4239000	3206.29	29Oct2007, 17:40	1.71
R370	43.7412800	6425.15	29Oct2007, 18:40	2.24
R390	24.7155000	3334.11	29Oct2007, 17:55	2.14
R410	126.3875044	19819.81	29Oct2007, 21:30	2.86
R420	28.4537015	5728.38	29Oct2007, 15:50	2.15
R430	22.3940000	4334.17	29Oct2007, 15:45	2.11
R480	115.5490044	18678.19	29Oct2007, 19:20	2.90
R50	49.3666400	8433.72	29Oct2007, 15:50	2.11
R520	94.8996044	15592.56	29Oct2007, 18:50	2.88
R560	13.8675000	10605.46	29Oct2007, 13:30	3.01
R570	59.7566044	10176.12	29Oct2007, 19:15	2.83
R580	25.2596200	1833.09	29Oct2007, 23:50	2.35
R60	451.3185980	44423.39	30Oct2007, 00:35	2.40
R600	26.6017844	7753.56	29Oct2007, 18:05	3.24
R610	16.6090000	4767.25	29Oct2007, 16:10	3.32

Page 4

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	3119.58	29Oct2007, 16:15	3.10
R80	401.3895080	41920.52	29Oct2007, 23:20	2.44
R90	38.2160400	6232.87	29Oct2007, 16:15	2.02
Reservoir-Indian Lake	24.3644000	2848.78	29Oct2007, 16:00	2.64
Reservoir-Lake Gloria	3.8288000	636.92	29Oct2007, 16:15	1.89
Reservoir-Lake Stonycreek	25.2596200	1833.08	29Oct2007, 23:50	2.35
Reservoir-North Fork	9.8185000	2002.69	29Oct2007, 14:55	1.83
Reservoir-Quemahoning	94.5898476	9888.55	29Oct2007, 21:35	2.22
Reservoir-Stoughton Lake	9.6825000	1405.55	29Oct2007, 18:00	2.04
W1000	7.2782000	1791.48	29Oct2007, 15:00	2.32
W1010	2.5590000	452.37	29Oct2007, 14:30	1.57
W1020	0.0727545	40.21	29Oct2007, 12:20	1.56
W1040	8.8149000	1177.22	29Oct2007, 15:50	1.57
W1050	6.4345000	1597.84	29Oct2007, 14:30	2.12
W1060	1.9283000	477.09	29Oct2007, 13:35	1.65
W1070	0.3167800	83.05	29Oct2007, 13:40	1.76
W1080	18.7090000	3119.99	29Oct2007, 17:25	2.38
W1090	19.0440000	2528.32	29Oct2007, 18:20	2.14
W1100	3.5546000	1136.04	29Oct2007, 14:15	2.45
W1110	6.0173000	1528.87	29Oct2007, 14:50	2.32
W1120	0.0424015	57.08	29Oct2007, 12:20	3.14

Page 5

C. OBSTRUCTION CAPACITY SUMMARY FORMS (FORM B)

Stonycreek BoX Culverts Calculation Sheet

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe
W = Width BCCMP = Bituminous Coated Corrugated Metal F

							Open	ina				ı			Width	Width (if app		CCMP = Bituminous Coated Corrugated Metal Pipe		
						Туре	Open		hape (√)					ement		nicable,)		-
						,,,			_pc (
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert		Culver		Brie			D H			PW skev	W		NOTES	
#	of Obstruction	(CFS)	(SQ. FT)	of?	Bridge?	Purpose		0	0	\cap	П	(ft)	(ft) (f) (ft)	(ft) angl	е	material		ID No Space
BC10	Conemaugh Two	263	24	1		road	x					4	4.	0 6	6.0			solid cement, east side is foundation of house	cement bottom ~70' back, runs along house, guy is mad.	BC0
BC101	NF CC	1,052	192	1	Х	cart path					Х		6.		2.0			msry SW N West WW 11' Souteast WW 9'	looks sound	BC01
BC102	Private Bornals Dalton Run	461	88	1	Х	drive way					Х		5.	5 1	6.0			msry SW -cement block	okay	BC02
BC106	Private	394	72	1	Х						X		6.	0 1	2.0			wooden bridge msry abutments	solid	BC06
BC11	Penn Dot	217	25	1			Х					2	5.		5.0			Solid cement, 2 WW each 7' long	high gradient stream, lots of very small pipes along sides	BC1
BC118	Private	146	35	1	Х						X		3.		0.0			Msry 2 WWs 5' each	looks good	BC18
BC119	Private	161	36	1	X						Х		4.		0.0			msry		BC19
BC12	Penn Dot	73	18	1		road	X						3.		5.0			solid cement 2 WW each 5'	small stream that probably doesn't run r\year round	BC2
BC121	Private	154	37	1		drive way	Х						3.		0.5			Msry 2 WWs 4' each		BC21
BC122	Penn Dot	34	4	1		road	X					3	1.		2.5			concrete HW 4' wide/1.5' high		BC22
BC129	Private	414	70	1	Х	road					X		7.) 1	0.0			concrete E WW 8' Wide WWW 4' wide		BC29
PC12	by BP	4.452	352	2										. 4	40 :	2.0		North WW ~18' South WW ~12' not near channel	Pier-trees stuffed up againist wing walls of old bridge part of it.	BC3
BC138	Private	200	40	1	X						X		5.		3.0	2.0		woodend bridge msry abuttments	Fier-trees stuffed up against wing waits of old bridge part of it.	BC38
BC14	Penn Dot Mill	592	108	1	_ ^	road					X		6.		8.0			solid cement W WW 1/2 cement 1/2 rock 13' east SW rock 30'	no obstructions, some rip rap on bank	BC4
D014	Penin Dot Dens Creek near	332	100	-		Toda					^		0.	, ,	0.0		31	Rolld Certifielt W WWW 1/2 Certifielt 1/2 fock 10 feast SW fock 30	no obstructions, some np rap on bank	
BC15	mouth	4,655	368	2	X						X		8.	,	6.0	3.0		pier 3' wide 2 WW 10' wide each	channel runs eXclusively under north end of bridge	BC5
BC19	Conemaugh Twp	708	112	1	Х						Х		8.) 1	4.0	45.0)	msry grated bridge	wall built directly on shale bedrock	BC9
2000				1.		private	1		1	1		_	1 T.							200
BC20	Private	307	30	1		drive	-	1	-	-	X	3	6.		5.0		\downarrow	msry HW 14' high 12' wide	looks like it is starting to fall in	BC0
BC21	Conemaugh Twp	497	84	1	Х	road	-	-	-	-	X	0	7.		2.0	45.0		msry block wall on east ~8', retaining wall on west ~25' long	rip rap on both sides ~50'	BC1
BC22	Conemaugh Twp	230	28	1	1	road	-	-	-	-	Х	2	3.	5 6	3.0	45.0	J	msry WW east 6' long	solid cement HW 2'	BC2
BC25	from NF res	2,121	300	1	×						x		10	0 3	0.0	3.0		solid cement SW north WW 12' South WW 4' (buried)	main channel (Bens Crk) flows under north end of the bridge	BC5
BC27	Penn Dot below GC Bens	1,676	306	1	X						X		6		1.0			cement bridge W WW 8' WW E 8'	channel moves to east of pier, mainly	BC7
	Conemacyn Twp Daiton Hun			-	_ ^						^							Cerrient bridge W WW 0 WW L 0	chariller moves to east or pier, mainly	
BC3	going back to res	304	68	1		road way	X					0	4.	0 1	7.0	30.0)	MSRY stone WW on west side 12' long	small drop under bridge	BC
BC31	Conemaugh Twp	2,173	324	1	Х						X		9.	3	6.0			steel bridge reinforced wooden ramp concrete holds up sides	log jam just upstream appeared to have been flooded recently ~1	0' BC1
	Conemaugh rwp Kealer Bridge																			
BC32	M 86	2,024	320	1	X						Х		8.		0.0			Stone Masonry cement bridge 2 WW ~12' each	Creek runs mainly under East end	BC2
BC35	Private	113	23	1		drive way	X						5.		.5			msry 2 WW 1 HW west WW 5.5' East WW 5'	HW 8' high structure made out of cement	BC5
BC37	Conemaugh Twp	1,493	236	1	Х	road way					X		8.		9.5			msry SW steel gate bridge	bridge looks old	BC7
BC4	augh Twp Dalton Run going bac	250	50	1		road way	Х					0	5.		0.0	~		MSRY East SW 6.5'	cement slab on west side helps channelize	BC
BC42	Penn Dot	707	129	1	X	road way					X		6.) 2	1.5			msry cement 2 SW 1 HW 4.5' (NE) SW 20' (SW) SW 5'	Everything is made out of concrete	BC2
BC43	Conemaugh Twp	6,600	852	1	X						x		12	0 7	1.0			concrete slabs on sides from WW to stream		BC3
BC45	Private	2,090	341	1	X						X		7.		5.5			MSRY 2 blocked SW roughly made can't measure	wooden bridge	BC5
BC46	Conemaugh	1,052	192	1	X				1		X		6		2.0			MSRY 2 WW both 7' bridge is odl and in bad condition	guard rain is broken off, needs replaced bridge is surrounded by	
BC5	Conemaugh Twp	1,592	130	1		road way	x					4	10		3.0	0.0		MSRY WW west 7' SW east 7'	HW acts as guardrail over bridge (2')	BC
BC58	Private	750	150	1	Х	roug way	_ ^				Х	-	5.		0.0	0.0		MSRY steel grate bridge	majority water runs under northern end of bridge	BC8
BC59	Private 1908	2.049	324	1	X						X		8		0.5			msrv SW	made of I beams and rotted lumber	BC9
BC6	Penn Dot	1,012	160	1		road way	Х					0	8.) 2	0.0	30.0)	solid cement SW East 8' WW west 10' high	looks newer, solid	BC
BC60	Pricate small plaza	215	56	1	Х						х		3.		8.5			bridge built in to ground, no SW, or HW or WW	small stream I beams and concrete top	BC0
BC61	Private	537	94	1	Х						х		6.		4.5			msry 2 WW west WW 5.5' east 3'	new bridge recently installed good shape	BC1
BC64	TWP	156	16	1		road	Х					3	4.		1.0			msry HW 10' high 10.5' wide	culvert is totally blocked structure debris upstream	BC4
BC7	enn Dot top of Dalton Run rt. 27	468	48	1		road	Х					3	4.		2.0	0.0	1	solid cement only HW 7' high	screeded rip rap on both sides ~6' hight ~30' long	BC
BC70	Jenner Twp	450	90	- 1	Х						Х		5.	0 1	8.0	45.0)	msry SW South WW 10' (less<) North WW 13' (more<)	large rocks laying againist walls	BC0
																	a	all certient structure south west 3W o long North east www o	, , , ,	
BC74	Jenner twp	1,125	215	1	X						X		5.		9.0			long	f rocks line southwest bank most of channe flows under southwest	
BC75	Private Farm	174	45	1	Х	drive way	1	1	1		Х		3.		5.0			concrete structure all block	patchy stone on both sides to hold bank back	BC5
BC76	Penn Dot Somerset Pike	1,117	204	1	Х		1	1	1		Х		6.		4.0			2 WW 8' each concrete structure has SW HW 12'	channel mainly under north end	BC6
BC77	Private	277	59	1	X		1	1	1		X		4.		3.0			concrete support walls concrete I beams top 2 WW 4' long	small bridge looks solid	BC7
BC78	Penn Dot	370	51	1	1	road	X	-				1.5	3.		7.0	45.0		concrete structure East WW 10' HW on culvert 2' West WW 8'	culvert skewed to road ~45 degrees	BC8
BC8	Penn Dot, Rt. 271 O'Conner Run	783	70	1	1	road	X	1	-			4	5.		4.0	45.0		SW South ~15' WW North ~25' solid cement	loose rip rap on both sides	BC
BC81	Penn Dot Som Pike	202	39	1	1	road	X	1	-				5.		7.0	45.0		cement structure 2 WW each 8' HW 4.5' higher	guardrails (HW) is disintegrating	BC1
BC82	Penn Dot Som Pike	78	17	1	1	road	X	1	-		L.,		4.		1.0	15.0)	concrete structure south SW 7' North SW 5'	current runs along S SW hirts N SW and goes into culvert	BC2
BC83	Penn Dot 1919	176	42	1	X		-	1	-		X		3.		2.0			solid concrete 2 WW each 6' long HW 6.5' high over side	headwall is disintegrating everything else is okay	BC3
BC84	Jenner Twp	1,479	270	1	X		-	1	-		X		6.		5.0			concrete SW 2 WW each 7' long	BC 85 dumps in right at bridge	BC4
BC89	Jenner Twp	1,001	176	1	X		<u> </u>	-	1		X		6.		7.0	0.0		msry SW and WW WW ~6' each	WW barely noticable hard to see	BC9
BC9	Conemaugh Twp covered	1,873	342	1	road		<u> </u>	-	1		X		6.		7.0	_	_	msry SW hol up bridge 1877 bridge	Rickety Wooden bridge okay condition	BC
BC95	Private Shafer Electric	657	120	1	Х	drive way	1	1	1	1	X		6.	J 2	0.0		_	solid concrete SW no WW	looks okay	BC5
BC96	Private	526	96	1	×	man arive					x		6.	1	6.0			msry SW no WW	looks okay too	BC6
DO30	Filvate	320	30	+ '-	^	way to crub	 	+	1				6.	, I	0.0		-	West www 7 long no slope East 3W o long msiy 3W	IUUNS UNAY IUU	200
BC98	NF CC	624	114	1	Х	house					х		6.	0 1	9.0	45.0)	underneath	water moves mainly on west end	BC8
BC99	NF CC	190	46	1		cart path	Х						3.	5 1	3.0	0.0		solid cement west WW 9' long East WW 6' long	looks solid cement a little cracked on West WW	BC9
PC13	Private	258	48	1							Х	0.6	2.		7.5			Brush on right side	Local Bridge (not state)	PC3
PC14	Private	159	25	1							Х	1.1	2.		0.6			HW and WW (straight out like HW) are made of brick	Local Bridge Both WW falling inward	PC4
PC15	Private	119	22	1							X	0.8	2.		0.3			HW made of bricks, rocks, channels water under bridge	local bridge	PC5
	Adams Two	405	53	1							X	1.6	3.		4.1			HW WW concrete East WW collapsed West WW 4'10" 70		PC6
PC16			129	1							X	8.5	6.		0.5		b	bridge made of old square timbers-large rocks makes up WW	Mine entrance	PC0
PC16 PC20	Private (mine company)	2,017																		
	Private (mine company) Railroad Company	2,017 165	10	1		road	Х					10	2.	9 3	3.5		- 1	RCP railroad pipe with WW to channel water in to pipe		PC1
PC20						road	Х				Х	2.2	5.		1.8		н	HCP railroad pipe with WW to channel water in to pipe HW North WW 6'10" 45 degrees South WW 7'4" at 45 degrees	Skews in from right 45degrees (write)	PC1 PC2

Stonycreek BoX Culverts Calculation Sheet

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe
W = Width BCCMP = Bituminous Coated Corrugated Metal Pip
PW - Pier Width (if annication)

							•							W = Wid			BCCMP = Bituminous Coated Corrugated Metal Pipe		
						Туре	Open		hape (<u> </u>			Mos	sureme		n (if applicat	ле)		+
						турс			mape (,			IVICE				1		
Map ID.	Owner or Address	Capacity	Area	Nos.				Culve		Bridge	Т		HT	w	PW	skew		NOTES	
#	of Obstruction	(CFS)	(SQ. FT)	of?	Bridge?	Purpose		0	0	\cap \square	(ft)	(ft)	(ft)	(ft)	(ft)	angle	material west www to East www 7.5 both at 50 degrees constructed of		ID No Spa
PC34	Richland Twp	8,688	873	1						x	1		14.8	59.0			concrete		PC4
PC36	Railroad Company	292,666	5,586	3						Х	0.8		57.0	98.0	2-9.4		piers constructed of stone	railroad bridge Sec sketch on back #36	PC6
PC37	145 H T	9 534	603							х	7		15.0	40.2			Last www 30.0 at 90 degrees west www 17 at 90 degrees All		007
PC37 PC43	Windber Twp Paint Twp	1,021	81	1				_		X		-	3.0	26.9	-		concrete North WW 24.6 10 degrees S WW 24.6 at 10 degrees		PC7 PC3
PC46	State Rt. 56	9,277	739	1				_		x	3.5		14.0	52.8	+ - 1	135.0	South WW 32.8'-20 degrees North WW 14' 90 degrees	old bridge with a new bridge built over top of it Bridge is built straight with stream	PC6
PC5	Richland Twp	5,082	396	1	Х			-		X	4.5		10.4	38.1		100.0	Both WW 8.2' at 45 Degrees	Bridge is built straight with stream	PC
PC51	Private	350	21	1						X	11		2.3	9.0			made of wood (walkway)		PC1
PC52	Private	466	28	1						Х	11		2.5	11.0			made of wood (walkway)		PC2
PC53	Private	227	17	1						Х	7		3.0	5.5			concrete (walkway)		PC3
PC54	State Rt. 601	1,325	114	1						Х	4.2		6.0	19.0		80.0	East WW 14' at 90 degrees		PC4
PC56	State Rt. 56	1,915	138	1		road	Х				6.5		6.0	23.0		30.0	Concrete west WW 7' at 90 deg. East WW 15' at 30 deg		PC6
PC58	Paint Twp	1,386	155	1			_	-		X	2.2		5.0	31.0		50.0	North WW 6' at 90 deg South WW 14' 15 deg		PC8
PC59	Richanland Twp	3,499	326 13	1 1				-		Х	3.1		7.5	43.5		70.0	concrete	bridge spans floodwall that is as high and wide as bridge	PC9
PC60	Railroad Company Richland Twp	307 3,115	232	1		RR	Х	-		х	20 6	+	4.2 6.0				msry-water pools on left side of tunnel concrete	bridge spans floodwall that is as high and wide as bridge	PC0
PC62	State Rt. 56	10,407	1,054	1			+	+		X	0.5	+	17.0	62.0	+		North WW 24' at 45 degrees South WW 23' at 45 degrees	brioge sparis noouwan triat is as myn and wide as brioge	PC2
				<u> </u>	1		+	1							1 - 1		South www to at 45 degrees worth www bulled in high bank,	<u> </u>	
PC64	Windeber twp	6,310	495	1						X	4.5		10.0	49.5			(does not affect flow)		PC4
PC65	Railroad Company	4,366	357	1	1					Х		\perp	11.5				Both SW are 12' and parellel to stream made of Block, stone	bridge, large manmade 5' in diameter and 5.8' high on North bank of	o PC5
PC66	Windber Twp	1,134	118	1	1		4-	1	ļ	X	2.6	+	5.6	21.0	+	120.0	SoutH WW 4' at 60 degrees North WW 10' at 45 degrees	<u> </u>	PC6
PC67	Windeber twp	1,545	176	1	1		+			X	1.8	+	6.5	27.0	1	110.0	old steel bridge with asphalt road		PC7
PC68	State Rt. 56	3,494	315	1 1	-	-	+	1	1	X	2.4		12.6	25.0	+-	135.0	West WW 11.5' at 90 degrees, East WW 15' at 30 degrees		PC8
PC72 PC8	Babcock Creek Rd. State State Rt. 160	965 3,058	111 230	1	X		+			X	1.75 5.4		6.5 8.5	17.0 27.0	+	110.0	Both WW 9' at 60 deg HW and WW concrete North WW 9.3' at 45 South WW 9.3' 90 degrees		PC2 PC
PC9	Adams Twp	5,039	416	1	X			_		X			13.9	29.9	+ - 1	110.0	East WW 18.2' at 45 degrees W WW 21.5' at 45 degrees		PC
QC100	Lincoln Twp	250	50	1	X			_		X	3.1	-	5.0	10.0		45.0	MSRY HW 9.5' 2 WWs 6' each		QC00
QC102	Lincoln Twp	394	72	1	X			-		X			6.0	12.0		40.0	msrv HW 11 2 WWs 10' each	S SW 10' N WW 10'	QC02
QC103	Lincoln Twp	427	90	1	X					X			4.5	20.0		45.0	msry concrete HW 6.5' 2 WWs 5' each		QC03
QC104	Lincoln Twp	635	121	1	Х		х			Х			5.5				msry HW 11' 2 WW 8' each	slow moving creek moves under east	QC04
QC108	Penn Dot Somerset Pike	2,325	233	2		road	X						5.0	46.5	3.0	45.0	msry HW 8.5'	2 WWs 10' bridge built 1952, end of channel runs in to North Bridge	QC08
QC109	Penn Dot Somerset Pike	136	25	2		road	Х						1.5	16.5	2.5		msry concrete HW 5' 2 WWs 12' each	built in swampy area structure is new	QC09
QC110	TWP	51	16	1		road	х						2.0	8.0			msry HW 4' 2 WWs 5' each	swampy area water running through well	QC10
QC111	Jenner Twp	300	60	1	X					X			5.0	12.0			msry HW 6' 2 WWs 6' each	be measured b/c swampy area is too high with water, right against h	
QC115 QC116	Jenner Twp Private	526 63	96 20	1 1	Х	road	Х	-		Х			6.0 2.0	16.0 10.0	-	30.0	Msry HW 6' 2 WWs 8' each wooden planks over small creek	small spillway 30' in front of bridge	QC15 QC16
QC116 QC117	Jenner Twp	57	18	1		road	X					+	2.0	9.0		30.0	Concrete HW 4' high 2 SWs 8' each	wood is worn out, rotting, needs replaced water flowing through well	QC16 QC17
QC117 QC12	Penndot 601	755	113	1		road	X						9.0	12.5		45.0	Msry W WW 13' E SW 10'		QC17
QC125	Jenner Twp	77	10	1		road	X				2		2.0	5.0		40.0	solid concrete HW 4.8' W WW 6' E WW ?	looks to be broken off all that remails is a flat slab ~ 1' high WW res	
QC128	Jenner Twp	888	75	1		road	X				4.5		5.8				solid concrete HW 8.5' 2 WWs 8' each	smooth	QC28
QC13	TWP	6,118	413	2	Х					Х			11.0	37.5	3.5		Msry 2 WW both 15' pipe has log jam	1926 Bridge is old but solid WWs are cracked pier is obstructed wit	QC3
QC130	Private	143	32	1	Х					Х			4.0	8.0			msry stone holds up sides	bridge is wooden, looks okay	QC30
QC134	Jenner Twp	1,468	198	1	Х					Х				18.0			MSRY-concrete 2 WWs 8' each	Large boulders on east side	QC34
QC139	Jenner Twp	721	138	1	Х					Х			5.5	25.0		45.0	MSRY concrete 1 WW 15' (West WW) 1 SW 15' (East SW)	Water runs under one side	QC39
QC14	Private Bridge company	131,466	3,024	3	Х					Х			42.0	72.0	4.0		Msry 3 piers made out of concrete	Bridge is in good shape, looks fairly new	QC4
QC140	Jenner Twp	203	58	1	Х					Х			2.5	23.0			MSRY 2 WWs 8' each	Majority water coming in south side, slackwater on North side	QC40
QC141	Farm (Jenner Twp)	650	130	1	X			-		X			5.0	26.0	-		Steel beams with wood on top		QC41
QC142 QC145	Jenner Twp	613 442	123 114	1	X			-		X		+	5.0 3.0			20.0	MSRY 2 WWs 8' each		QC42
QC145 QC146	Lincoln Twp Lincoln Twp	789	114	1	X			-		X			6.0	38.0 24.0		20.0	MSRY-2 WWs 9' each MSRY- 2 WWs 7' each	Water flowing well	QC45 QC46
QC148	Lincoln Twp	739	135	1	X			+		X			6.0	22.5			MSRY 2 WWs N WW 7.5' SWW 9'	Steel gate bridge	QC48
QC149	Lincoln Twp	241	36	1	^	road	x	+		^	1		4.0	9.0			MSRY 2 WWs 6' each HW 6' high	Swampy Area	QC49
QC15	Conemaugh Twp	674	123	1	Х	7000				Х	Ė		6.0				msry 2 ww 1 HW 12' S WW 6' N WW 6'	Rocks and vegetation surround bridge	QC5
QC154	Lincoln Twp	225	45	1	· · ·	road	х						5.0	9.0			Concrete HW 20' Wide 10' Long		QC54
QC162	Lincoln Twp	261	36	1		road	Х				1.5	T	3.0	12.0		30.0	msry East SW 8' HW 6' West WW 8'	Rubble (rocks, concrete chunks) eXtend 20' past WW	QC62
00465	Encoin Twp Quentarioning																		
QC163	Creek Headwater	1,491	252	1	Х		+			Х	-	+	7.0	36.0	1		solid cement HW 10' N SW 9' S WW 12'	runs primarily under N end	QC63
QC165	Headwater	107	24	1	x					х			4.0	6.0			wooden bridge loose rocks help reinforce banks	bride is okay	QC65
QC174	Lincoln Twp	100	11	1		road	Х				3		3.0	3.5		45.0	msry HW 6.5' high 10' wide		QC74
QC175	Lincoln Twp	268	60	1		road	Х					Ш	4.0	15.0			msry HW 7' high	WW 4' wide (west) SW 3.5' wide (east)	QC75
QC176	Lincoln Twp	434	63	1	Х					Х	1		4.5	14.0			msry No SWs, No WW		QC76
QC177	Lincoln Twp	175	35	1		road	X						5.0	7.0			msry 2 WW-7' each	large cement slab lays across WWs acts as HW HW 8' wide	QC77
QC178	Lincoln Twp	88	25	1	1	road	X					\perp	2.5	10.0			Msry HW, 4.5' high	<u> </u>	QC78
QC179	Lincoln Twp	235	50	1	1	road	Х	1	ļ			+	4.5	11.0	+		msry HW 9' high 2 WWs 6' each	<u> </u>	QC79
QC18	Jenner Twp	663	112	1	Х		-			Х	-	+	7.0	16.0	1		Msry HW 12' 2 WWs 9' each	Commence and a farm ANADY (QC8
QC181 QC183	Lincoln Twp	181	38 16	1 1	1	road	X				1	+	4.5	8.5	+		MSRY HW 8' high SWW 6' high	Swampy area adjacent to farm NWW 4'	QC81
QC183	Lincoln Twp Conemaugh Twp	103 1,439	112	1	1	road	X		1		5	+	3.5 8.0	4.5 14.0	+		msry 2 WWs 4' each msry Hw 10' 2 SW eXtend 40'+	old HW fell in creek, fell flat, no blocking anything big culvert coming out of 219	QC83 QC9
QC193	Penn Dot Somerset Pike	524	65	1	1	road	x				0	+	13.0		+		solid concrete HW 8' 2 WW 7' each	HW cracked but stable	QC93
					+				-			-							
QC2	Conemaugh Twp	249	23	1		road	X				4		4.5	5.0	1 1		Solid concrete HW 6 feet 2WW 6.5' each	Water is bad, clear drainage	QC

Stonycreek BoX Culverts Calculation Sheet

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pripe
HT = Height CPP = Corrugated Polyethylene Pipe
W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe
PW = Pier Width (if applicable)

(-).													W = W	/idth		BCCMP = Bituminous Coated Corrugated Metal Pipe		
						Oper							PW =	Pier Widt	h (if applical			
					Туре			Shape	(✔)			Mea	suren	nents				
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of Culvert		Culve	ert	Brid	ae	т	D HT	w	PW	skew	-	NOTES	
#	of Obstruction	(CFS)	(SQ. FT)	of?			0				(ft)			(ft)	angle	material		ID No Spa
QC226	Inner Ton	176	42			_				v		3.5	12.0				lastic aliculation as and account	QC26
QC227	Jenner Twp Jenner Twp	27	8	1	private roa road	X				^	0	2.5	3.0			wooden bridge MSRY HW 4' high 8' wide	looks okay but has no real support old, but okay	QC27
QC23	Quemahoning Two	71	5	1	road	X					7	1.8	3.0		90.0	msrv HW 3' high 7' wide	runs alongside road and flows into culvert at a 90 dkew angle, ver	
QC236	Abandonded Railroad	5,391	696	1	RR					Х		12.0	58.0	3.0		Concrete HW 14.5' high	ajority water flowing in east side, west side overflown, old, abando	ond QC36
QC239	Abandonded RR	5,391	696	1	RR					X		12.0	58.0			Concrete 2 WWs 16' each HW 15.5' high	water runs only under N end	QC39
QC24	Quemahoning Twp	104 371	7 65	1	road	X					9	2.3	3.0		60.0	msry HW 4' each 7' wide	1/2 blocked with debris	QC4
QC242 QC25	Pricate Quemahoning Twp	3/1	40	1	1 road	Х	_		-	Х	2	6.5 5.0	10.0			iron beam bridge msry S WW 8' N WW 9' HW 8' long 7.5' high	beams laid on old msry supports (used to be an older bridge) Structure entirely made of stone, looks okay.	QC42 QC5
QC29	Quemahoning Two Two mile	429	48	2	X	^				Х		4.0	12.0	4.0		msrv N WW 7' S WW 7' HW 7'	creek runs on both si9des of pier equally	QC9
QC31	Jenner Twp	1,468	198	1	X					X		11.0	18.0)	0.0	msry S WW 8' N WW 10'	all made of stone, looks okay	QC1
QC32	Quemahoning Twp	137	21	1	road	Х					1	3.5	6.0		45.0	msry S WW 8' HW 8'	HW cracked but stable	QC2
QC34	Jenner Twp	95	15	1	road	X					1	3.0	5.0			solid concrete 2 SW 2.5' each	a lot of brush, but no interference	QC4
QC35 QC36	601 Penn Dot	143 70	32 18	1	road	X	_					4.0	8.0			solid cement S WW 6' HW 6.5' N WW 7'	creek looks very small, more like a ditch	QC5
QC35 QC37	Jenner Twp Jenner Twp	121	18	1	road road	X					1	3.0 4.0	6.0 4.5			msry 2 SW 5.5' each HW 8' msry 2 SW 2.5' HW 5' high	he SW looks newer compared to the HW grass inhabits all the cha grass grows up in the channel, swampy	QC7
QC38	Jenner Twp	383	99	1	X	_ ^				х		3.0	33.0		45.0	msry HW 8.5' high 2 WW small, ~3'	this is a swamp. Loose rocks laying against WW, HW is crumbli	
QC39	Penn Dot 601 Boswell, ever	8,110	535	2	X					X		11.5	46.5		10.0	solid concrete 2 WWs 15' each HW 14'	channel runs eXclusively under north end of bridge	QC9
QC44	Penn Dot Somerset Pike	360	93	1	Х					Х		3.0	31.0			solid concrete HW 8' 2 WW 10' each	creek moves slow, backed up from lake	QC4
QC45	nner Twp, Jennerstown Speedw	279	24	1	road	Х			oxdot		5	2.0	12.0			Solid concrete HW 7' 2 WW buried	2 CMP ran underneath speedway, dumped into culvert	QC5
QC48 QC49	Penn Dot 30/601 junction Penn Dot 601 Ferrelltown	6,708 810	832 80	1	road	-		_	\vdash	Х	2 -	13.0	64.0		45.0	solid concrete HW 18' N WW 14' S SW 10' solid concrete HW 10.5' 2 WW each 10'	Channel runs under north end south end is backwater	QC8 QC9
QC49 QC5	Penn Dot 601 Ferrelltown Penndot eXit to 219 from 601	2,476	96	1	road	X		+	+	-+	2.5	8.0	10.0			Stone msry HW 11' high S SW 10' 1 SW/ WW 12'	looks okay Culvert runs under 219	QC9
QC50	Penn Dot 601	1,800	180	2	X	^				Х	20	5.0	36.0	3.5	45.0	solid concrete HW 8' 2 WW 8' each	south WW buried 4' channel runs 75% under north end	QC0
QC51	Jenner Twp	952	161	1	X					X		7.0	23.0)	0.0	Solid concrete No HW, No SW, No WW	large boulders line channel above and below bridge	QC1
QC54	Penn Dot 601	350	70	1	Х					Х		5.0	14.0)	60.0	solid cement HW 8' N WW 7' S WW 10'	water hits S WW then goes under road	QC4
QC55	Jenner Twp	407	46	1	road	X					2.5	3.5	13.0		60.0	solid cement HW 6' 2 low angle WW 8' long	big culvert, little stream	QC5
QC56	Penn Dot 601	110	16 7	1	road	X					1.5	2.0	8.0			solid concrete HW 3.5' N WW 12' S SW 6'	area is flooded SW almost under water, pond is too high	QC6
QC58	Penn Dot 601	52	10.750	1	road X 219 road	Х				_	2	1.0	7.0	E 60	0.0	concrete 2 WW buried HW 10' wide 3' high	no real water running through	QC8 QC9
QC6	Penndot 601	367	82	1	road	Х				^		4.0	20.5	5 0.0		Msrv N SW 8' HW 7' SWW 10'	Built in 1958	QC
QC61	Jenner Twp	59	8	1	road	X					2	2.5	3.0		5.0	msry (cement) HW 8.5' Wide 3' High	eXtremely skewed, log blocks culvert	QC1
QC62	Penn Dot 219	3,888	192	1	road	Х					14	12.0	16.0			msry-concrete HW-14' wide N WW 11' wide	SWW 10' clear flow of water	QC2
QC63	Jenner/Que Twp	413	83	1	X road					Х		5.0	16.5			msry concrete HW 7' high N WW 9' S WW 9'	water runs under north side of bridge	QC3
QC64 QC65	Jenner/Que Twp Jenner/Que Twp	192 81	50 21	1	X road					X		3.0	16.5 7.0			msry concrete HW 5.5' high, 2 WWs 10' wide	water flowing in under north end	QC4 QC5
QC66	Jenner/Que Twp Jenner/Que Twp	154	37	1	X road					X		3.0	10.5			msry concrete HW 7' high 2 WWs 5' msry HW 8' High, West WW 7'	concrete slab on bottom east WW 4, water hits east WW and runs under bridge	QC6
QC68	Penn Dot rt 30	1,164	184	1	road	х		+	1	^		8.0	23.0			msry cement HW 12' high 1 SW 1 WW	west WW 26' wide SW 17' wide backwater, swampy	QC8
QC69	Jenner Twp	1,242	210	1						Х		7.0	30.0			msry 2 low angle WWs 10' each	water flowing through well	QC9
QC7	Conemaugh Twp	1,028	98	1	road	X					3	7.0	14.0)	45.0	msry S SW 11' B WW 11'	Creek hits WW before going into culvert	QC
QC70	old abandonded railroad	2,710 3,214	221	2	Х					Х		7.5	29.5			msry 2 WWs both 12' msry N WW 15' HW 11 S WW 20' water ran to North end of	majority water comes in on north side nected to other bridge on adjacent road (QC 74) Bridge is old and	QC0 de QC3
QC74	Jenner Two	7,731	924	1	Х					X		14.0				MSRY N WW 25' S SW 25'	HW 17' high	QC4
QC75	Jenner Two	33,569	1.092	3	X					X		21.0	52.0	4.0	60.0	msry solid cement 2 piers	water flwoing to the north side	QC5
QC78	Penn Dot	1,375	138	2	X					Х		5.0	27.5	3.0		msry concrete HW 8' 2 WWs 8'	area is swampy, water backed up, vegetation growing in stream	n QC8
QC79	Jenner Twp (Jenners)	1,147	171	1	X					X		9.0	19.0			MSRY 2 WWs N WW 10 S WW 12'	rocks on bottom	QC9
QC84	Quemahoning Twp	117	25	1	road	X						4.5	5.5		00.0	msry HW 6.5' high 2 WWs 6'	water flowing in well	QC4
QC91 QC92	Lincoln Twp Lincoln Twp	150 144	30 28	1	road road	X	_		-			5.0 5.5	6.0 5.0		60.0 60.0	MSRY HW 9' high 2 WWs 5' each MSRY HW 8.5' NWW 6'	SWW broken offf looks like it will fall in rocks both sides, old 19 Rocks on both sides	QC2
QC0	Conemaugh Twp	338	68	1	road	x			_			5.0	13.5		00.0	Msry 2 WW 4.5' each 1 HW 9.5'	Hocks off both sides	QC
400	Continuagn 1Wp			<u> </u>	1000	_ ^						0.0	10.0			South www 14.3 at 30 degrees North www 17.5 at 30 degrees		
SC1	Paint Twp	1,818	196	1	X					X	2	7.3	27.0)		HW and WW msry		SC
SC100	Paint Two	6.070	280							U	2.7	10.0	28.0		65.0	Fast WW 23' at 30 degrees		SC00
30100	Failt Twp	0,070	200	-	^					^	2.1	10.0	20.0	3.0	05.0	North WW 15 at 45 degrees South WW 15 at 60 degrees		3000
SC105	State Rt. 160	5,470	417	1	х				<u></u> _	X	5.5	7.0	59.5	j		concrete HW and WW		SC05
00100	Ob T	14.005	07-		V							40.5	70 -			East www 16 at 75 degrees west www 23 at 45 degrees		0000
SC106 SC108	Shade Twp Shade Twp	14,625 332	975 32	1	X road	x	-	-	+	Х	6.5 3.5	12.5 4.0	78.0 8.0		 	Concrete HW and WW RCP Both WW 18' at 30 degrees WW and HW concrete		SC06 SC08
SC108 SC109	Shade Twp Shade Twp	332	32	1	road	X	+	+	1 -		3.5	5.3	6.0			meausred outflow-inflow fenced in but same size	<u> </u>	SC08 SC09
	Chado Trip			Ė	1111	+^		+								meausred outflow-inflow fenced in but same size		
SC110	Paint Twp Penn Dot	17,344	1,176	1	X					Х	6.3	12.0	98.0)	70.0	Concrete Hw and WW		SC10
SC112	Paint two	1.280	129	4	x					x	2.3	8.3	15.5	.	65.0	WW stone blocks		SC12
00112	ганц шр	1,200	123		^					^	2.0	0.3	10.5	,	00.0	west www a at ou degrees East www 15 at ou degrees Hw		3012
SC115	Paint Twp (state rt. 160)	10,189	355	2	X					X	5	16.3	21.8	4.5		WW and Piller Msry		SC15
SC118	Railroad	822	66	1	X					X	5	6.0	11.0			HW msry railroad bridge		SC18
SC123	John Saylor trail	110	23	1	X				1	X	0.7	1.3	18.0			Wooden walkway John Saylor Trail		SC23
SC125	Lost Turkey Trail Lost Turkey Trail	208 52	32 11	1	X	_	_	+-		X	1.3 0.6	2.3	14.0 9.0			Wooden walkway/bridge		SC25 SC28
		52 47	8	1	X	-	-	+			1.25	1.3	5.0		-	wood bridge/walkway wooden support beams with steel decking		SC31
SC128 SC131		559	86	1	X	+	+	+	1	x	1.23	3.5	24.5		 	Wooden beam walkway		SC32
SC128 SC131 SC132	Private Gallitzin State Forset	229								X	0.1	24.0	67.0			wire and wood plank suspension bridge old wooden beam bridge with logs as decking, very poor		SC33
SC131		17,797	1,608	1	X													
SC131 SC132 SC133	Gallitzin State Forset Gallitzin State Forest	17,797		1 .														
SC131 SC132 SC133 SC136	Gallitzin State Forset Gallitzin State Forest Private	17,797 52	10	1	х					х	1	0.5	20.0			condtion and hardly used		SC36
SC131 SC132 SC133	Gallitzin State Forset Gallitzin State Forest	17,797		1 1 1						X X	1 2.3 1.1	0.5 6.8 1.5	20.0 29.7	-				SC36 SC7 SC8

Stonycreek BoX Culverts Calculation Sheet

T= Amount of fill
D= Diameter
HT = Height
W = Width

msry = Stone Masonry Structure
CMP = Corrugated Metal Pipe
CPP = Corrugated Polyethylene Pipe
BCCMP = Bituminous Coated Corrugated Metal Pipe

						0	pening			1			W = Wid		ı (if applicab	BCCMP = Bituminous Coated Corrugated Metal Pipe		
					1	Гуре		nape (✔	<u>()</u>				sureme		т (п аррпсар			-
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert	Culvert		Bridge	Т		HT	w	PW	skew		NOTES	
#	of Obstruction	(CFS)	(SQ. FT)	of?	Bridge?	Purpose [0	\cap \square	(ft)	(ft)	(ft)	(ft)	(ft)	angle	material steer beam bridge with wooden decking west www 14.5 at 50		ID No Space
SC20	Ogle Twp	2,171	230	1	х				х	2.5		5.4	42.5			degrees East WW 6.5' at 30 degrees onage made of Wooden supports and decking east www 5.35 at	WW and HW constructed at stone blooks	SC0
SC28	Private	693	80	1	х				x	2		5.0	16.0			onage made of Wooden supports and decking east www 5.35 at 30 degrees West WW 13' at 45 degrees	104/ 1404/	SC8
SC28	Private	693	80	1	X				, x	2		5.0	16.0			VV VVVV 15 at 30 degrees E VVVV 9 at 45 degrees mvv and vvvv	HW and WW are msry	SU8
SC30	Ogle Twp	1,868	161	1					х	4.6		3.9	41.3		105.0	Concrete	streams skews in from right	SC0
SC31	State Rt 56 (Ogle twp)	2.795	223	1					x	5.4		4.5	49.5			concrete		SC1
SC32	Ogle Twp	634	76	1					X			3.9	19.5			open grate bridge with steel supports both wws 8' at 60 degrees		SC2
SC33	Club)	234	34	1					Х	1.5		2.0	17.0			bridge supports are steel pipes declaiming is made of wood		SC3
SC34	Club)	171	30	1					х	1		1.5	20.0			Wooden bridge (walkway)		SC4
SC35	State Rt. 56 (Ogle Twp)	329	30	1		road	X			4		4.0	7.5		135.0	South WW 6' at 90 degrees North WW 16.5' at 30 degrees	opening is at bottom of concrete HW 7.5' wide by 3.5' high	SC5
SC42	State Rt. 160 Paint Twp	2,187	187	1	s				x	4.5		4.8	39.0			and WW concrete		SC2
																www o at 90 degrees, w www to at 45 degrees hw and www		
SC49	Shade Twp	4,378	440	1	Х				Х	2.2		8.8	50.0			msry - 3 www 19 at 30 degrees in www 13.3 at 90 degrees, riw and		SC9
SC50	State penn Dot	5,564	424	1	х				х	4.5		12.0	35.3		110.0	WW concrete		SC0
SC51	State Penn Dot	365	40	1		road	X			2.2		5.7	7.0		120.0	NN WW 7' at 90 degrees, South WW 9' at 30 degrees WW msry	-	SC1
SC62	Penndot State Rt. 160	2.853	231	1	×				x	5		5.5	42.0		60.0	concrete		SC2
		, , , , ,														East www 21 at 45 degrees, west www 15 at 45 degrees Hw		
SC63	Shade Twp	5,408	415 44	1	X				Х	4.7		10.5	39.5			and WW concrete		SC3
SC67 SC68	State Gamelands 228 Shade Twp	300 1,159	133	1	X				X	1.3		3.0 5.3	25.0		60.0	decking made of wood beams along with support beams West WW 9' at 80 degrees East WW 12' at 30 degrees		SC7 SC8
SC76	State Rt. 160	356	43	1		road	х			1.8		5.0	8.5		135.0	North WW 5' at 90 degrees concrete		SC6
SC80	Jenner Twp (Jenners)	461	88	1	Х				Х			5.5	16.0			msry 2 WWs N WW 17' S WW 12'	Creek runs along north WW before going in bridge	SC0
SC81 SC83	Penn Dot 601 South State Gamelands	52 1.086	14 158	1	X	road	Х		х	1		3.0	4.5 36.0		60.0	ConcreteNorth WW 6' HW 4.5' high steel support beams with wooden decking	HW 10' wide water hits WW before going in	SC1 SC3
SC88	State Gamelands	219	40	1	X				X	0.8		2.0	20.0			bridge made of wooden beams and boards (walkway)		SC8
SC92	Railroad	2,847	220	1	X					4.5		11.0	20.0			HW and WW make of concrete Both WW 17' at 90 degrees		SC2
SC93	Central City/Shady twp Park	893	64	2	Х				Х	0.8		5.8	11.0	0.4		pier made of steel I beams Both www 17 at 30 degrees nw and www constructed of	3' high X 6' wide pile of debris in front of pier	SC3
SC95	State Rt. 160 Shade Twp	5,865	420	1	x				x	5.7		10.5	40.0			concrete		SC5
				_												concrete HVV and VVVV west VVVV o at 90 degrees East VVVV 11		
SC99 SCR10	Paint Twp	590 1,909	65 270	1		road			X	2		6.5 10.0	10.0 27.0		60.0 60.0	at 30 degrees same	Toroid site subset	SC9 SCR0
SCR100	Alley Down from SC 9 (Dale) emaugh Twp Pine Street Davids		78	1	Х		х		Х			6.5	12.0		00.0	Concrete Msry 2 WWs-8' each SW-9' high	Typcial city culvert No fill above HW water flowing well	SCR00
SCR11	Ash Street Dale/Hornerstown	3,465	490	1	Х	road	^		Х			10.0	49.0		30.0	same	there are 2, 4, 6, 8 and 10 foot markers on the SW water stains up	
SCR12	McMillen Street Hornerstown	2,051	290	1	Х	road			Х			10.0	29.0		45.0	cement bottom cement SW 10' high	Typcial city culvert	SCR2
SCR13 SCR14	Oak Street Hornerstown Dale Annie Street	1,811 3,668	270 455	1	X	road road			X			9.0	30.0 35.0		45.0 45.0	same same N SW is msry	same same	SCR3 SCR4
SCR15	Dale Messenger Street	1,570	234	1	X	road			x			9.0	26.0		40.0	same N SW is 11sty	same	SCR5
SCR16	Dale Bedford Street	2,611	352	1	Х	road			Х			11.0			45.0	same HW 15' SW ~12' high	same	SCR6
SCR17	Dale Jacoby Street (top)	2,121	300	1	Х	road			Х			10.0	30.0			same SW 10' high	same	SCR7
SCR18	from SCR 17	1.909	270	1	x	road			x			10.0	27.0		60.0	same, SW goes from 12' to 8' just upstream	same	SCR8
	30/ Widman Street exit discinity																	
SCR19 SCR20	(Dale) Ramp West Widman Street (Da	2,928 791	350 50	1	Х	road road ramp	x		Х	9		14.0 5.0	25.0 10.0		45.0	same SW ~7'each solid concrete HW 7' WWW 6' EWW 8'	old WW still in place, above WW (not in play) hits W WW/HW corner then goes under	SCR9 SCR0
SCR21	Falls Run Conemaugh Twp	3,333	342	1			X			9		19.0	18.0		?	solid cement no HW 2WW 25' each	see drawing!	SCR1
SCR24	Richland Twp	482	85	1		road	X			0		6.5	13.0		60.0	solid concrete HW E WW 13' 10' W SW 10.5'	looks new, solid	SCR4
SCR28	Penn Dot EXpressway 56 Southmont Boro	3,057	160	1			X]		13		8.0	20.0	L]	15.0	solid concrete HW 10' W SW 16.5' long E WW 20' long	runs along WW, then goes under dirt road, then 56	SCR8
SCR3	Sonthinout Rolo	593	75	1	-	road	^			1.5		5.0	15.0	\vdash		cement channel 7' whole length of channel in neighborhood	it is a stormwater control area, man made, fenced off	SCR
SCR36	Geistown Demuth Street	1,035	175	1			x			0		7.0	25.0			(over)	area is fenced off. Culvert is large	SCR6
SCR38	Geistown Scalp Avenue	580	98	1		road	X]		0	$\perp \perp \downarrow$	7.0	14.0	L]	45.0	solid concrete HW 9.5' N SW S WW 14'	water gits WW, then goes under	SCR8
SCR5	Parking Lot (near McCort)	621	105	1		Parking Lot	x					7.0	15.0			Msry Cement Bottom HW 9' SW eXtend up to neXt sheet	Culvert is bell shape msry solid	SCR
	Johnstown across from															msry cement bottom no real mvv Svv 9 nigh extend to next		
SCR6	Memorial Hospital	580	98	1		road	X			-	++	7.0	14.0			street	Much like SC4 and SC5	SCR
SCR7	Memorial Hospital	557	88	1		Road (Alley)	х			0.0		8.0	11.0		75.0	of feet	normal city culvert	SCR
SCR8	Lunen/Messenger Int.	1,284	217	1	x	road		T	x			7.0	31.0	ΙŢ	45.0	all cement, cement bottom SW endless no HW	Typical city culvert sign says "combined overflow"	SCR
	Prouneiser Street			-		IUau											rypical city curvett sign says combined overnow	
SCR9	Dale/Hornerstown	1,417	224	1	х	road			X	L		8.0	28.0		60.0	same as above SW~10' high	Typical city culvert	SCR
SCR101	Penndot 219 Entrance Davidsville	3,426	122	1	-	road	х			30	+	9.0	13.5	\vdash		Concrete 2 WWs-12' Each HW 11'	Half Moon Culvert	SCR101
SCR102	Penndot 403	551	90	1	Щ.		x			L		7.5	12.0	LL ∣		MATT IS HARDWARE	DIFFERENT STRUCTURE * SEE DRAWING	SCR102
SCR107	Conemaugh Twp	179	40	-1		road	Х					4.0	10.0		45.0	Water Very Low	-	SCR107
SCR109	over Stonycreek	18.421	1.046	2	x				Y			15.5	67.5	3.0		Msry-concrete 2 WWs Sww 17' NWW 20'	Surrounded by Large Boulders	SCR109
SCR110	Penndot 219	2,010	117	1	-	road	х			10		9.0	13.0	0.0		Msry-Concrete HW-11.5 High	WW-15' Wide NWW-12' Wide Water hits south WW going under br	
SCR111	Penndot 403	592	108	1			X					6.0				Concrete WWW-15' EWW-24' HW-10.5' high	Water Hits EWW Before going under culvert	SCR111
SCR112 SCR116	Twp (Holsopple)	828 42.000	140 2,100	1		road	Х		v			7.0	20.0	9.0		Concrete 8' high goes along 403-100' +	Water is low opposite SW runs into house	SCR112
				-	^				^			20.0	100.0	5.0		Steel bridge wisty Piet Solid cernent Piw 9.5 E SW To high 100 long 5 SW 6 high		John 10
SCR117	Benson	500	100	1		road	х					5.0	20.0			100+ long	E SW msry W SW rip rap then msry SW are retaining walls for yar	rds SCR117
SCR121	601 Penn Dot	27 426	1 510	1 2		road			- X			16.5	91.5	3.0		colid coment F W/W 18' W/M/W23'	good chang	ISC*B191

Stonycreek BoX Culverts Calculation Sheet

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe
W = Width BCCMP = Bituminous Coated Corrugated Metal

Dato(o).														W = Wi			BCCMP = Bituminous Coated Corrugated Metal Pipe		
							Open									th (if applical			
						Туре		S	Shape	(✔)			Me	asurem	ents	T	_		
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert		Culve	rt	Bric	iae	T D	нт	w	PW	skew		NOTES	
#	of Obstruction	(CFS)	(SQ. FT)	of?				0				(ft) (ft)		(ft)	(ft)	angle	material		ID No Space
SCR122	601 Penn Dot	173	33	1		road					Х	0	5.5	6.0			RCP cement HW 16' wide 6' high	little water	SCR122
SCR126	Creek Penn Dot 403	310,405	5.355	4	х						х		42.0	127.5	3.5	30.0	msrv-concrete	bridge goes over creek and railroad	SCR126
SCR127	Penn Dot 403	857	63	1		road	Х					6	7.0	9.0			Concrete Msry HW 9' high	Cement bottom 2 WWs-15' high	SCR127
SCR128 SCR130	Penn Dot 403 Roadroad Bridge adjacent to	19,748	1,071 210	1	X						X		17.0 14.0	63.0 15.0	3.5		Concrete HW-21' high	E WW-21' wide W-SW	SCR128 SCR130
SCR130	Hoadroad Bridge adjacent to	1,757	210	1	Х				+		Х		14.0	15.0			Msry No WWs No SWs		SCH130
SCR135	Bridge	10,119	1,600	1	Х						Х		8.0	200.0	6.0		Msry	Bridge has road underneath it	SCR135
SCR136 SCR139	Hooversville Borough Twp Penndot 403 South, Hooversville	15,337 741	990 130	1	Х	road	Х				Х		12.0	82.5 20.0	4.0		Concrete concrete, water flowing well 2 wws-6' each	75% flow of water going under east end of bridge ant culvert spweing mine water in to the stream before running under	SCR136
SCR139 SCR140	Hooversville	635	121	1	Х	road	^				Х		5.5				Msry- bridge build on steel wioth supporting msry	2 wws-17' each-msry	SCR139
SCR142	Penn dot 403 Hooversville	139	29	1		road	Х						4.5	6.5			concrete HW 6' high	2 WWs 6' N WWs mostly buried by till. Steam is low	SCR142
SCR143	Hooversville	394	72	1		road	Х				v		6.0	12.0			Concrete 2 low angle WWs 6'each		SCR143
SCR145 SCR146	Private BB pear Hooversville	1,316 42,000	208	1 2	X						X		8.0	26.0	4.0	45.0	Built out of wood over old bridge Msry/concrete 2 SW's 12'each	95% of water flows under north end	SCR145 SCR146
SCR153	Penndot 403	592	108	1	X						X		6.0	18.0		10.0	Concrete 2 wws-10' each HW 8.5 high	Bridge falling apart, old	SCR153
SCR154	Railroad Bridge Shade Twp	538	91	1	Х						Х		7.0	13.0			Concrete- AMD		SCR154
SCR155 SCR158	Railroad Along Shade Twp Railroad Bridge	32 1,224	10 165	1	X	railroad	Х	-	-		х		2.0	5.0 15.0			Concrete MSRY Holds up site built of used and steel AMD	Pond Discharge and stream combine under railroad culvert	SCR155 SCR158
SCR159	Paint Twp Railroad Bridge	70	26	1	X		 	1	+-		X		1.5	17.0	+		MSRY holds up side, built of wood and steel		SCR159
SCR160	t Twp Culvert Running under rail	634	95	1		railroad	Х						9.0	10.5			Concrete 2 WWs-16' each HW-12' high	Stream is clear waterfall (manmade) in front of culvert	SCR160
SCR161	Conemaugh Twp Railroad culver	93	24	1		railroad	Х			\Box	Ų.		3.0	8.0		00.0	Concrete ESW-7'Wide WSW-4'Wide	HW-5' high	SCR161
SCR162	Conemaugh Twp Railroad	30,053	3,360	1	Х						Х		16.0	210.0	8.0	60.0	Msry holds up concrete structure-built of wood and steel	American Bridge Co. 1916 2 WWs-30' each	SCR162
SCR163	running over	7,902,532	35,700	7	Х	high wall					X		200.0	178.5	10.0		Concrete over RR and Stonycreek	ight estimated Pier to Pier 200' 7 Piers end piers ~100' away from b	SCR163
SCR165	company (out of order) Tire Hill	1,214	192	1	×	road					х		8.0	24.0			Concrete W SW -15'	Flowing well	SCR165
	HT 30 OVER STORYCLERK III				Α	Toda					^								
SCR166	Stoystown	20,227	987	2	X						X		21.0	47.0 41.5	3.0		solid cement 2 WW 25' each	80% WWs under east end of pier	SCR166 SCR167
SCR167 SCR168	Rt 30 Stoystown Stoystown	5,011 7,179	374 968	1	X						X		9.0		3.0		solid cement HW 13' 2 WWs 15' each Iron/wood bridge msry WW 24' each	all the creek WWs under east end pier falling apart built in 1887 stills looks good	SCR168
SCR170	403 Stoystown over stonycreek	27,038	1,387	2	X						X		19.0	73.0	3.0		Steel bridge with cement WW N SW 25' S WW 30'	old, but solid	SCR170
SCR171	Penn Dot 281	2,733	231	2	Х						Χ		7.0	33.0	3.0	45.0	solid concrete HW 11' N SW 12' SWW 16'	HW cement breaking up	SCR171
SCR172 SCR174	Quemahoning Twp Quemahoning Twp	6,363 3,960	858 560	1	X			-			X		11.0	78.0 56.0		45.0 45.0	solid concrete HW 15' E WW 18' W WW 9' solid concrete HW 14' W WW 18' E SW 18'	majority of flow runs under E end good 1964	SCR172 SCR174
SCR175	Private 2 House	1,038	182	1	X						x		6.5	28.0		43.0	concrete/iron 2 WW 5' each	stream channel upstream has a lot of vegetation over it	SCR175
SCR181	Conemaugh Twp Railroad	3,704	380	1		railroad	Х						19.0				Masonry 2 SWs, 25' each HW-21' high	looks fine	SCR181
SCR182 SCR183	Railroad PennDot 403	1,562 2,121	20 300	2	X	railroad	Х				x	60	5.0	4.0 30.0	6.0		MSRY-S WW-20' Wide HW 15' high/28' wide Concrete 2 WWs 14' each HW 13 h igh	All water going under south side	SCR182 SCR183
SCR184	Shade Twp	2,354	311	1	x						x		11.5	27.0			Concrete built over bricks WWW 20' Wide HW 15.5' high	Large boulders on both sides of stream E SW 15' wide	SCR184
SCR185	Shade Twp	235	50	1		road	Х						4.5	11.0			Concrete 2 WWs 10' Each HW 6' high	Looks fairly new, constructed well	SCR185
SCR190	Shade Twp	1,746	268	1	Х						Х		8.5			15.0		ms heavily rusted, plants coming off, beams loose, bridge in bad co	
SCR193 SCR200	Penn Dot 403 RR Shade Twp	19,172 3,897	662 225	2	X	RR		+			X		10.5	63.0 15.0		45.0	concrete HW 14' E SW 17' W WW 34' Concrete pier is block shape	creek runs 75% under E half log jam on easternmost pier inder south end mainly, north end backed up with wood and gravel a	SCR193 SCR200
																	Concrete pier is block shape Concrete base, bridge built out or steer and wood. 2 wwws 20		
SCR201 SCR202	Railroad bridge Railroad bridge	17,173 3,960	1,920 560	1	X		-	-	-		X		16.0	120.0 56.0		45.0	each Concrete built of wood and steel E WW 16' Wide WSW 8' wide	WWs built out of Msry bridge has steel archs old but still looks good	SCR201 SCR202
SCR203	Railroad bridge	4,242	572	1	X			+			x		11.0	52.0		45.0	msry holds up sides	good	SCR203
SCR204	RR	418	80	1	Х						Х		5.5	14.5		60.0	cement holds up sides, steel top	good	SCR204
SCR205	RR RB	5,660	702 42	1	Х						Χ		13.0			15.0	Concrete holds up bridge SW 60'	Water hits SW before running under bridge	SCR205
SCR206 SCR207	RR RR	248 1.556	273	1 1	X	RR	Х		-		x		7.0 6.5	6.0			Concrete HW 10' high WWW 22' wide ESW 14 wide Concrete abuttments hold up bridge	Water runs along WW before going under culvert	SCR206 SCR207
SCR208	RR	2,015	285	1	X						X		10.0				Bridge Abuttments made of msry and concrete	Flowing well	SCR208
SCR212	(Krings)	42 000	2 100		v						v		20.0	105.0			Consists Charl becomed bridge	and water flowing in each and of bridge bridge bridge 1000	CCDO10
SCR213	Railroad	132	32	1	^	RR	Х				^		3.5	105.0			Concrete Steel bearried bridge Concrete HW 5.5' high 2 SWs eXtend 25' to highway culvert	Nothing really flowing in creek	SCR213
SCR214	Railroad Bridge Ferndale	45,079	1,680	3							Х		16.0	105.0	6.0		Concrete base bridge built out of steel and wood.		SCR214
SCR215	PennDot Eisenhower BLVD.	45,000	2,250	2						-	Х		20.0	112.5		20.0	Concrete base bridge built out of steel	B ill B ill College Bill in the LB in the	SCR215
SCR216 SCR224	Abandonded Railroad Bridge RR Richland Two	24,693 105	1,450 27	1		RR	Х				Χ	0	3.0	9.0	10.0	30.0	Built on concrete foundation wood and steel concrete HW 6' high 2 SW 4' each	Built by Bethlehem Steel Co. 1923 Bridge is old and Deterirating east SW cracked ~1/2 washed away	SCR216 SCR224
SCR225	RR Richland Twp	4,192	520	1		RR	X					0	13.0	40.0		45.0	Steel I beams, steel top, N WW 14 S WW12'	W eXtends from S WW another 26' creek hits N WW then goes und	SCR225
SCR226	Penn Dot Franklin street	59,943	5,472	1	Х						X		24.0				Concrete E WW 16' W SW 24'	Steel beamed bridge	SCR226
SCR40 SCR41	Geistown	105 456	27 77	1	-	road	X	1	+-	+		0	7.0	9.0	-	1	msry HW 4' high solid cement HW 9.5' Cement bottom	wooden sidewals go on for 100s of feet cement SW run about 80' long 5' WW on end of SW	SCR40 SCR41
SCR44	PENNDOT 403	919	150	1		road	x	+	+	+		,	7.5	20.0	+	1	msry-concrete 2HWs-11' high	VW- 10' (East) Cracked 1 SW-8' (West) Bridge is old, water flowing	vSCR44
SCR45	Conemaugh Twp	1,305	176	1	Х						Χ		11.0	16.0			Msry-concrete 2WWs-15' each	Water hits S-WW before going under bridge	SCR45
SCR47	Conemaugh Twp	849	144	1	X		-	1	+	+	X		7.0	20.5		45.0	msry-concrete HW-12' N-WW-4'	SWW-9' Very Small Waterfall Under bridge	SCR47
SCR48 SCR49	Private Private	373 580	63 98	1	X		+	+	+	+	X		7.0	9.0	+	1	(E) WW-11' Wide (W)-10' Wide-buried Concrete FWW-7'wide	Wooden Bridge	SCR48 SCR49
SCR68	Pricate	300	60	1		road	х		1				5.0	12.0	1	1	Concrete-HW-7.5, 2WWs 10'	Flowing well	SCR68
SCR69	Private	213	43	1	Х						Х		5.0	8.5			Concrete SSW-8' NWW-8'		SCR69
SCR70 SCR73	Conemaugh Twp Conemaugh Twp	400 109	80 15	1	-	road	X		+	+		1.5	5.0	16.0 5.0	+	45.0	Concrete E(SW)-7'wide HW-7'High Masonry-no SWs HWs	W (WW)-14' Wide Water hits WW Before Going under Bridge	SCR70 SCR73
SCR74	PENNDOT 403	550	110	1	Х	IUau	^	+	+	+	Х	1.0	5.0	22.0	+	45.0	Concrete-S WW-12' wide, SW 8' high	N-SW-8' Buried	SCR74
SCR75	PENNDOT 403	559	102	1		road	Х						6.0	17.0		30.0	N SW-13' S WW-15'		SCR75
SCR78	Private	361	66	1	X		_	1	1	+	X		6.0	11.0	1		MSRY	rocks and blocks hold up sides	SCR78
SCR79 SCR80	Private Private	394 607	72 96	1 1	X		-	-	+-	+	X		6.0 8.0	12.0 12.0	+	-	Concrete 2WWs 8' each HW10' Concrete-2 WWs 5' high each		SCR79 SCR80
551100		307		<u>. ' </u>	_ ^	1	1				-1		0.0	1 .2.0		1	Concrete E TVS O High bach	I .	1-0.100

Watershed: Completed by: Checked by:

Stonycreek BoX Culverts Calculation Sheet

Watershed:		Stonycree	≱k					BoX C	ulverts	Calculation	n Sheet							
Completed by:														mount of	ffill	msry = Stone Masonry Structure		
Checked by:														iameter		CMP = Corrugated Metal Pipe		
Date(s):														Height		CPP = Corrugated Polyethylene Pipe		
											_		W = \			BCCMP = Bituminous Coated Corrugated Metal Pipe		
					_		Openi	ing							dth (if applical	ble)		
						уре	-	Sr	nape (✔)		N	<i>l</i> easure	ments				
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert	1	Culvert		Bridge	-	D H1	гw	PW	skew	-	NOTES	
Map ID.	of Obstruction	(CFS)	(SQ. FT)	of?		Purpose					T (ft)	(ft) (ft				material	NOTES	ID No Space
SCR81	Private	551	90	1	Bridge?	Purpose	ш.	U	0 /		(π)	(n) (n 7.5			angie	Concrete 2 WWs HW-9.5'	E WW-12' W WW-10'	SCR81
SCR83	PENNDOT 403	1,238	91	1	^	road	Х			^	6	7.0			15.0	Concrete N SW-10' Wide HW-11' high	SWW-24'wide	SCR83
SCR89	hower Blvd Penndot Riverside/Be	2.147	60	1		road	x				50	6.0			13.0	brick/cement structure concrete bottom HW 8' 2 WW 10' each	looks okay	SCR89
SCR92	Eisenhower Blvd Penn Dot	1,536	60	1		road	x				25	6.0				Brick/cement structure HW 8' 2 WW 6' each	another smaller creek comes in on east side near WW	SCR92
SCR93	Eisenhower Blvd Penn Dot	4,327	120	1		road	x				50	10.				Brick/Cement structure HW 12' 2 WW 11' each	opening is egg shaped	SCR93
SCR96	alters Ave Richland Twp Geistow	350	70	1		road	X				0	5.0				solid concrete HW 9' 2 WW 14' each	looks new, has fence around it	SCR96
SCR99	Private	3,953	500	1	Х					Х		12.				Wooden Bridge Built on I beams no HW, SWs or WWs	Looks Okay	SCR99
SR106	State Rt. 281	322	37	1	Х					Х	2.2	4.0	9.3	3		Both W 6.5' at 60 degrees HW and WW msry	•	SR06
SR107	Somerset Twp	599	66	1	X					Х	2.5	4.0	16.	5	75.0	Both WW 10 ' at 70 degrees HW and WW concrete		SR07
SR108	Somerset Twp	4,977	252	2	Х					Х	2.5	7.0	36.	0 2.5		Both WW 13' at 60 Degrees HW and WW concrete		SR08
SR111	Private (Farm Use)	102	18	1	Х					Х	1	1.3	3 14.	0		wood bridge (farm use)		SR11
				١.						x	5			_				
SR113	Railroad Company (csX)	1,130	88	1	Х		-	-		Х	5	8.0) 11.	D		and WW concrete opening is in rive 3 wider on each side and 2 higher both www		SR13
SR114	State Rt. 281	914	70	1		road				l x	5.5	6.6	6 10.	6	60.0			SR14
	Oldio Fil. 201			<u> </u>												13' at 45 degrees		
SR117	Somerset Twp	1,148	121	1						x	2.5	5.5	5 22.	0	135.0	HW concrete		SR17
														_		East vvvv o at 50 degrees vvest vvvv 3 at 50 degrees vvvv and		
SR118	Railroad (CSX)	1,142	76	1			1			X		5.6				HW concrete		SR18
SR119	Railroad (CSX)	725	52	1	\vdash		-	1		Х	7	3.6			+	West SW 12' long HW and Sw concrete		SR19
SR12	Brothersvalley Twp	650	69	1	×	road	Х	\vdash			2.5	5.0			1	HW WW concrete both WW 9' at 60 degrees		SR2
SR125 SR128	Lincoln Twp	290 603	36 69	1	X		-	-		X	2	3.0 5.0				East WW 4' at 10 degrees HW and WW concrete		SR25 SR28
SR128 SR129	Quemahoning Twp	234		1												concrete HW		SR29
5H129	Quemahoning Twp	234	29	-	Х					^	2	3.2	2 9.0	,		concrete HW		5H29
SR13	State Rt. 31	3,522	248	1	×					x	7	5.5	5 45.	О		at 70 degrees		SR3
SR131	Lincoln Twp	1,122	113	1	Х					Х	2.2	8.7				both WW 3' at 70 degrees South www 15 at 90 degrees worth www 19.5 at 30 degrees		SR31
SR132	Quemahoning Twp	2,027	189	1	Х					Х	2.5	10.	5 18.	0	60.0	HW and WW are concrete		SR32
SR133	Quemahoning Twp	2,875	300	1	X					х	2.2	7.4	4 40.	5		WW Concrete open grate bridge east www 5 at 70 degrees w www 18 at 10		SR33
SR137	Lincoln Somerset Twp	842	104	1	x					l x	1.5	5.8	8 18	n	60.0	degrees		SR37
SR14	Brothersvalley Twp	124	21	1	X					x		2.0			00.0	wood support beams and decking with asphalt coating		SR4
01111	Brotherovancy 1111p	121		· ·			1									North WWV 17 at 45 degrees South WWV 14 at 70 degrees HW		0.11
SR145	State Rt 219	3,393	101	1		road	х				43	8.6	6 11.	В	70.0	and WW concrete		SR45
SR154	Quemahoning Twp	7,156	600	1	X					х		11.			120.0	and WW concrete		SR54
SR155	Quemahoning Twp	1,306	159	1	Х					Х	1.5	6.0	26.	5	110.0	HW msry		SR55
SR157	State Rt 281	6,268	244	2	×					×	5	8.0	30.	5 3.0	135.0	19' at 20 degrees	Bridge in bad condition very deteriorated	SR57
011107	State Fit 201	0,200		-	^					^		0.0	30.	3.0	100.0	East www zo at 10 degrees w www 11.5 at 10 degrees www	bridge in bad condition very deteriorated	
SR158	Quemahoning Twp	10,377	780	1	X					X	5	10.	4 75.	0		and HW msry bridge is concrete		SR58
	Quernanoning rwp/Storiycreek																	
SR159	Twp	8,401	726	1	X					х	3	11.	8 61.	5 3.0	1	Both WW 19' at 45 degrees HW and WW Pillar all concrete S vvvv 22.3 at 10 degrees North vvvv 30 at 30 degrees HVV	steel support beams with concrete decking	SR59
SR160	Private	3,367	383		x					l x	1.4	8.5	5 45.			and WW msry	Old bridge with theider steered sings	SR60
SR161	Quemahoning Twp	249	32	1	^	road	х			^	1.4	4.5				Both WW 5' at 45 degrees Concrete WW and HW	Old bridge with "bridge closed" signs	SR61
SR163	Stonycreek Twp	249 345	32 41	1	X	1080	^		-+		1.6	4.3			70.0	Both WW 5' at 45 degrees Concrete WW and HW Both WW 5' at 70 degrees HW and WW msry		SR63
SR165	Stonycreek Twp	9,131	593	1	X		+		 	+ 0	6.5	15.			70.0	Both WW 36' at 60 degrees HW and WW misry Both WW 36' at 60 degrees HW and WW concrete		SR65
SR167	Stonycreek Twp	711	50	1	_ ^	road	Х				7	4.8			1	Both WW 8' at 60 degrees HW and WW concrete		SR67
2.1107	2.2, 2. 30K 1 mp	<u> </u>	1	<u> </u>			<u> </u>		— t						1	Both WW 8' at 60 degrees HW and WW concrete west www 32.5 at 60 degrees East www 16 at 70 degrees HW		
SR168	State Rt. 160	1,509	135	1		road	х				3.2	9.0			160.0	and WW concrete		SR68
SR169	State rt 160	4,466	324	1	Х					Х	6	8.0				Both WW 12' at 60 degrees HW and WW concrete		SR69
SR170	Stonycreek Twp	361	46	1	X						2	2.3				Both SW 9.5' HW and WW msry		SR70
SR171	Stonycreek Twp	2,185	237	1	X		$\perp \equiv$	ullet		Х	2.2	6.0				Both WW 10 degrees at 60 degrees HW and WW msry		SR71
SR176	Stonycreek Twp	909	105	1	X					Х	2	5.0	21.	0	110.0	North WW 15' at 35 degrees S www 15 at 90 degrees in www 5 at 45 degrees in warmand www	·	SR76
00477	Ct-t- D: 100	0.505		1.	х		1 -		I [x	5	8.0	23.	,	100.0			CD77
SR177	State Rt. 160	2,435	190	1	Х		-	-		X	5	8.0	23.	/	100.0	concrete		SR77
SR178	Stonycreek Twp	203	24	1	x					x	2.25	3.0	8.0	,	60.0	and WW concrete		SR78
SR179	Stonycreek Twp	162	17	l i	_ ^	road	Х			_ ^	3.25	2.0			45.0	10 % blocked by rocks and debris HW concrete east www o.5 at 90 degrees west www 12 at 30 degrees nw		SR79
				T -			T -											
SR180	Stonycreek Twp	692	72	1	X			<u></u>		х		6.0			65.0	and WW concrete		SR80
SR193	PA Turnpike 70/76	1,739	134	1	X					Х	5.5	6.0				Both WW 15' at 60 degrees HW and WW concrete		SR93
SR197	PA Turnpike 70/76	3,121	231	1	Х					Х	4	16.	5 14.	0		Both WW 21.5' at 60 degrees WW and HW concrete		SR97
														Wes	it	West WW 12.5' at 30 degrees East WW 9.5' at 20 degrees HW		
SR203	Stoystown Lions club	4.732	192	3	X					v	1.1	8.0	24.0			and WW mery pillers mery		SR03
OI IZOO	Oloystown Lions oldo	7,102	192									0.0	۲4.	J. J. J		and WW msry, pillers msry South www 6 at 30 degrees worth www 5.5 at 60 degrees www		51100
SR208	Stonycreek Twp	169	21	1	х					x	2	3.0	7.0)		and HW concrete		SR08
SR23	State Rt. 160	863	91	1		road	Х				2.3	6.5		0	40.0	CMP		SR3
SR238	PA Turnpike 70/76	9,546	338	2						Х	6.5	7.5	5 45.	0 3.7		WWs 14.5' at 45 degrees WW and HW concrete		SR38
SR25	State Rt.31	2,763	240	1						Х	3.8		5 32.			HW WW concrete Both WW 13' at 45 degrees		SR5
SR29	State Rt. 160	754	94	1		road	Х				1.5	5.5			120.0	HW and WW 11' at 45 degrees south WW 10.5' at 90 degrees		SR9
SR31	State Rt. 160	675	68	1		road	X				3	5.0	13.	5		Both WW 11' at 70 degrees HW and WW concrete	·	SR1
	0. 1.7		400	Ι. –	1 7						2			- 1 -				0.05
		977	109	1 1	1			1		Х		6.2 8.0			60.0	60 degrees Stone WW and HW open gate bridge	E WW 12' at 90 degrees W WW 15' at 30 degrees	SR5 SR7
SR35	Stonycreek Twp		200		~													
SR35 SR37 SR4	Brothersvalley Twp Brothersvalley Twp	3,402 1,321	336 126	1	X			-	-	X	2.5 3	7.0			60.0	Concrete HW and HW open gate bridge Concrete HW and WW both WW 11' at 60 degrees	E WWW 12 at 90 degrees W WWW 15 at 30 degrees	SR SR

Watershed:		Stonycree	k					BoX Culve	rts Calculatio	n She	et							
Completed by:		-											T= Amo	unt of	fill	msry = Stone Masonry Structure		
Checked by:													D= Diar			CMP = Corrugated Metal Pipe		
Date(s):													HT = He			CPP = Corrugated Polyethylene Pipe		
										_			W = Wie			BCCMP = Bituminous Coated Corrugated Metal Pipe		
							Openir								th (if applica	ble)		
						Гуре		Shape	· (*)	+-		Mea	surem	ents		-		
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert	,	Culvert	Bridge	т	D	нт	w	PW	skew	-	NOTES	
# #	of Obstruction	(CFS)	(SQ. FT)	of?	Bridge?	Purpose		0 0		(ft)		(ft)	(ft)	(ft)	angle	material	110125	ID No Space
		(/			- mage:			Ů							ungo	INORITI WWW 11.5 at 00 degrees 30diii WWW 17.5 at 00 degrees		
SR42	Brothersvalley Twp	2,600	130	2	Х				X	2.7		6.5	20.0	0.8		HW and WW concrete		SR2
SR48	Stonycreek Twp	503	56	1	Х				Х	2.3	3	4.5	12.5			HW WW msry Both WW 7' at 70 degrees		SR8
SR52	Stonycreek Twp	3.557	288	1	×				x	4.3	3	9.0	32.0			at 45 degrees		SR2
SR54	Stonycreek	8,075	695	1	X				X	3.4		10.0	69.5			HW and WW concrete Both WW 19' at 60 degrees		SR4
SR55	Stonycreek	5,135	514	1	Х				X	2.7	,	6.5	79.0			wood decking with stone		SR5
SR6	Brothersvalley Twp	511	52	1		road	Х			3		4.5	11.5			HW and WW concrete both WW 9.5' at 70 degrees		SR
SB60	State Rt	272	30		×				l x	2.5	.	4.0	7.5		120.0	7.5' at 45 degrees		SR0
SR61	Private	187	25	1	X				X			2.2	11.5		120.0	Bridge has steel support beams and wood timber decking		SR1
SR62	Private	531	65	1	X				x			4.5	14.5			Steel support beams with concrete decking		SR2
																mvv and vvvv concrete, South vvvv 7.5 at 70 degrées North		
SR64	State Rt.	283	34	1	Х				Х	2.2		3.2	10.5			WW 6' at 30 degrees		SR4
SR66	Stonycreek Twp Glessner	10,665	533	2	Х				Х	1.3	3	13.5	39.5	3.0		Covered bridge West SW 29'		SR6
SB67	Stonycreek Twp	2.155	184	1	×				x	4		7.5	24.5			and WW concrete		SR7
																mvv and vvvv msry east vvvv 6.5 at 90 degrees vvest vvvv 19		
SR68	Stonycreek Twp	201	24	1	Х				X	2		4.0	6.0			at 30 degrees		SR8
SB69	Stonycreek Twp	251	30	1	×				l x	2.2	,	3.0	10.0		110.0			SR9
01103	Storrycreek Twp	231	30	-					_ ^			3.0	10.0		110.0	90 degrees South www 5.5 at oo degrees worth www 10.5 at oo degrees		
SR70	Old RR grade	106	12	1		RR	х			2.7		2.0	6.0		45.0	HW and WW concrete		SR0
SR72	Stonycreek Twp	1,332	151	1	Х				Х	2		5.5	27.5			Both WW 5' at 60 degrees HW and WW concrete		SR2
SR73	Railroad	222	23	1		RR	Х			3		4.0	5.7			Both WW 4.5 feet at 90 degrees HW and WW concrete		SR3
SR74	Shanksville	14,722	541	2	x				x	5		12.0	45.1	3.2		WW and HW concrete		SR4
SR75	Shanksville	6,104	273	2	X				X	3		10.0		3.0		Both WW 17' at 60 degrees HW and WW concrete		SR5
SR79	Stonycreek Twp	221	24	1	Х				Х			2.0	12.0		120.0	Concrete decked bridge		SR9
SR8	Private Owned	169	30	1	Х				X	0.7	5	2.7	11.0			small walkway with steel beams and concrete deck		SR
SR81	Stonycreek Twp	703	84		×				l x	2		4.0	21.0			WW msrv		SR1
SR86	Stonycreek Twp	2,956	259	1	X				X			8.5	30.5			HW and WW concrete Both WW 15.5" at 15 degrees		SR6
	2.0., 2.001 1119			† i			1 1			1						TIVY and VVVV TISTY South VVVV 13 at 30 degrees (Volth VVVV 18		
SR88	Somerset Twp	2,461	183	1	Х				X	6		6.3	29.0		ļ	at 10 degrees		SR8
SR93	Someset Twp	283	40	1	X	l			X			2.5	16.0	_	1	open grate bridge HW msry		SR3
SR94	Railroad Company (csX)	1,009	85	1	Х				Х	4.5)	5.5	15.5	-		West WW 15' at 45 degrees		SR4
SR95	Somerset Twp	2,200	220	1	X				x	2		10.0	22.0			up stream about 80'		SR5
SR96	Railroad Company (csX)	3,404	252	1	Х				Х			9.0	28.0			South WW 10' at 90 degrees North WW 15' at 90 degrees		SR6
SR97	Somerset Twp	1,279	138	1	Х				X	2		7.3	19.0		45.0	East WW 22' at 120 degrees West WW 24' at 30 degrees		SR7

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Completed by: Checked by: Date(s): Stonycreek

Circular Culverts Calculation Sheet

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill
D= Diameter
HT = Height msry = Stone Masonry Structure CMP = Corrugated Metal Pipe CPP = Corrugated Polyethylene Pipe

					0	_					_				/ = Width	Attulate (16		BCCMP = Bituminous Coated Corrugated Metal Pipe		
					Opening	g	Shape	(✓)			Me	asurem	nents	P	W = Pier V	Wiath (if	applicable)			-
														Ţ						
Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Part of Bridge?		Culver	0		Bridge	T (ft)		D HT (ft) (ft)	(ft)		skew angle	material	NOTES	ID No Space
BC103	Upper Yoder Twp	161	7.07	2		road		х				4	3.0	T		1.0		2 CMP fenced rip rap HW 7' high 18' wide	nearly all water goes in S pipe	BC03
BC104	Penn Dot	459	28.27	1		road		х				8.5	6.0	T				RCP	large tree lies in front	BC04
BC111	Conemaugh Twp	23	3.14	1		road		х				1.5	2.0					RCP looks fine	•	BC11
BC112	Conemaugh Twp	15	3.14	1		road		х				0.25	2.0					SP		BC12
BC116	Upper Yoder Twp	50	7.07	1		road		х				1	3.0					RCP	Flowing well	BC16
BC117	Upper Yoder Twp	26	3.14	1		road		х				2	2.0					CMP	Flowing well	BC17
BC123	Conemaugh Twp	20	3.14	1		road		х				1	2.0					RCP	loose stone packed around pipes	BC23
BC124	Penn Dot	50	7.07	1		road		х				1	3.0	Ť				RCP - Ties to storm inlet	top of pipe cut in half moon shape	BC24
BC127	Private	126	19.63	1		road		х					5.0	Ť			45.0	CMP loose stone HW 6' high 18' wide		BC27
BC128	Private	175	19.63	1		road		х				1.5	5.0	Ť				SP		BC28
BC131	Jenner Twp	26	3.14	1		road		х				2	2.0	T				RCP		BC31
BC132	Penn Dot Somerset Pike	13	3.14	1		road		х				0	2.0	T				NSW 7' Wide HW 3.5' high/wide		BC32
BC133	Jenner Twp	38	4.91	1		road		х				1.5	2.5					RCP	CPP running through RCP flowing well	BC33
BC134	Jenner Twp	26	3.14	1		road		х				2	2.0					RCP		BC34
BC136	Jenner Twp	17	3.14	1		road		х				0.5	2.0					CPP		BC36
BC137	Jenner Twp	34	3.14	1		road		х				4	2.0	T				RCP	Patchy Stone HW 20'	BC37
BC139	Jenner Twp	32	3.14	1		road		х				3.5	2.0	T				RCP	·	BC39
BC141	TWP	23	3.14	1		road		х				1.5	2.0					RCP		BC41
BC16	nemaugh Twp Back Shaffer Bridge	62	7.07	1		road		х				2	3.0				10.0	CMP over flow noticed	Top of pipe smashed ~10 inches large stick obstruction	BC6
BC18	nemaugh Twp Back Shaffer Bridge	50	7.07	1		road		х				1	3.0					CMP	smashed in on top	BC8
BC23	Conemaugh Twp	144	7.07	2		road		х				3	3.0			1.0		2 CMP concrete covered	small trickel looks more like a swamp area	BC3
BC26	Conemaugh Twp gold course	100	9.62	1		road		х				3	3.5				60.0	CMP rocks around it	left side dented in slightly	BC6
BC34	Private	97	12.57	1		drive way		х				1	4.0					CMP 40% of pipe blocked by stream rd	pipe is not blocked inside just in mouth surrounded by rocks	BC4
BC36	Private	198	28.27	1		drive way		х					6.0	T				CMP west wall has rocks	Pipe is 100 % clear looks fairly new	BC6
BC38	Conemaugh Twp	133	12.57	1		road way		х				3	4.0					CMP pipe is clear	pipe surrounded by rocks rip rap on other side fell down	BC8
BC39	Conemaugh Twp	250	23.76	1		road way		х				2.5	5.5					CMP pipe is clear surrounded by rocks vegetation	1'x1' pipe adjacent to CMP without water pipe is CPP	BC9
BC41	Private	250	12.57	2		drive way		х				2.5	4.0					2 CMP 2 WW HW 10' high	pipes cased in cement masonry	BC1
BC44	Private	83	5.94	2		road		х				1.00	2.8					CPP in good condition CMP bottom rusted out	water flows through each equally	BC4
BC47	Private	223	19.63	1		Drive		х				3.5	5.0	T				Steel pipe encased in stone	Encased with stone sidewalls	BC7
BC52	Conemaugh Twp	50	7.07	1		road		х				1	3.0					SP encased in stone 1 WW	Stone WW NE 12'	BC2
BC53	Penn Dot	232	15.90	1		road		х				7	4.5	T				RCP pipe is clear, surrounded by stone		BC3
BC55	Conemaugh Twp	233	23.76	1		road		х				2	5.5	T				RCP 1 WW/1 SW 1 HW 7' E WW 7' W SW 6.5'	Pipe surrounded by cement	BC5
BC68	Jenner Twp	57	7.07	1		road		х				1.5	3.0	T				CMP patchy stone around it	looks good	BC8
BC69	Jenner Twp	65	7.07	1		road		х				2.25	3.0	T				CMP patchy stone around it bottom 1/8 of pipe is rusted ou	though	BC9
BC85	Privte Schlosser	72	12.57	1		drive way		х					4.0	T				CMP HW 5.5' North WW 7' South sidewall is rock ~45' long	looks good for most part	BC5
BC87	Jenner Twp	50	7.07	1		road		х				1	3.0	T			60.0	CMP loost stone around it	pipe is clear	BC7
BC88	Private	87	9.62	1		drive way		х				2	3.5	T				CMP looks new	curved stone HW 18' long, top is top of fill (5.5' high)	BC8
BC92	Private	50	7.07	1		road		x				1	3.0	Ť			45.0	RCP stone surrounding pipe 8' on both sides and top	AMD	BC2
BC94	Private	31	1.77	2		res		x				2.5	1.5	Ť				2 small CPP Headwall (block) curved ~12' on both sides	water goes in to both pipes about equally	BC4
BC97	NF CC	187	9.62	2		shed		x	Ħ			2.5	3.5	Ť				2 CMP gravel fill no WW or HW	west pipe totally blocked by debris from latest rainstorm	BC7

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Circular Culverts Calculation Sheet

Completed by: Checked by: Date(s):

(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe

- 41.0 (0).	NOTE. Different paramet						.,								W = Width			BCCMP = Bituminous Coated Corrugated Metal Pipe		
					Opening Type	g	Shape	(v)			N	Measurem	onte	_	PW = Pier	Width (if	applicable)		_
					Турс			,			- 10	псазаген								
Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?		Culvert Purpose	Culvert		0	Bridge	T	t)		HT (ft)		PW (ft)	skew angle	material	NOTES	ID No Space
PC1	Richland Twp	70	9.08	1		road		х				1.2	3.4				135.0	CMP flattened inside of pipe		PC
PC10	Adams Twp	54	7.07	1		road		х				1.3	3.0					CMP		PC0
PC11	State Rt. 160	472	45.36	1		road		х				1.75	7.6					CMP North WW 8' at 45 degrees South WW 8' at 80 degree	\$	PC1
PC12	Adams Twp	62	7.07	1		road		x				2	3.0					CPP smooth inside		PC2
PC17	State (Adams twp)	54	7.07	1		road		x				1.3	3.0					CPP-smooth inside		PC7
PC18	Adams Twp	39	7.07	1		road		x				0.2	3.0					RCP slightly skews before entering 30 degrees		PC8
PC19	Adams Twp	50	7.07	1		road		x				1	3.0					RCP smooth inside	large channel tapers into smooth pipe at entrance	PC9
PC2	Richland Twp	99	7.07	1		road		x				6.5	3.0					CMP skewed to left		PC
PC25	Richland Twp	123	7.07	2		road		x				2	3.0					RCP-flow is more in left pipe than the right		PC5
PC27	Richland Twp	102	12.57	1		road		x				1.25	4.0					CMP slight skew to right due to rocks		PC7
PC28	Richland Twp	115	15.21	1		road		х			Ī	0.8	4.4					CMP flattened out on inside of pipe	stream skews in at 45 degrees on right side	PC8
PC29	Windber Twp	91	10.18	1		road		х				2	3.6					RCP deteriorated around ledge medium rock lying in pipe	slightly skewed from right in to pipe(water)	PC9
PC3	Richland Twp	86	11.34	1		road		х				1	3.8					CMP rocks in front channel water into pipe		PC
PC30	Richanland Twp	155	5.31	1		road		х				31.5	2.6					T and HW are some height and made of wood. CMP	water enters then channels 31" wide	PC0
PC31	Private (Spiritech)	86	2.01	5		road		х				2.3	1.6				100.0	CPP smooth inside	Private owned (spiritech)	PC1
PC32	Private (Green Achers)	232	12.57	2		road		х				2	4.0					СМР		PC2
PC33	Railroad Company	60	3.63	2		RR		х				2	2.2					Cast Iron Pipe old RR grade	stream makes 90 degree turn into pipe	PC3
PC38	Mine Company	81	7.07	1		road		x				4	3.0					CMP 15% blocked by rocks and logs, north side slightly fell i	n	PC8
PC39	Mine Company	146	18.10	1		road		x				1	4.8					RCP	mine road	PC9
PC4	Richland Twp	270	21.24	1		road		x				4.5	5.2					CMP		PC
PC40	Paint Twp	333	28.27	1		road		x				3.4	6.0					CMP		PC0
PC41	Railroad Company	302	17.35	1		RR		x				10	4.7					CMP	old RR grade	PC1
PC44	Paint Twp	60	7.07	1		road		x				1.8	3.0					CMP 5' timberwing walls out at 60 degrees		PC4
PC45	paint Twp	1554	122.72	1		road		x				2.2	12.5					degrees W WW 7' at 45 degrees		PC5
PC47	Paint Twp	95	5.52	2		road		x				2	2.7					CMP nmore flow into the North West about 70 degrees in to	rock channel leading into pipe for 50 + feet	PC7
PC48	Paint twp	137	17.72	1		road		x				0.8	4.8					RCP	3/4 of the way through 32' switches from RCP to CMP	PC8
PC49	Private	139	15.90	1		road		х				1.5	4.5					CMP		PC9
PC50	Private	87	3.14	4		road		х				1.2	2.0					CMP 10 degrees blocked by sticks and leaves		PC0
PC57	Private (Thiele)	283	28.27	1		road		х				2	6.0				110.0	smooth on the inside steel pipe (SP)		PC7
PC61	State Rt. 56	197	12.57	1		road		x				8.5	4.0				135.0	Concrete HW concrete block pipe	stream skews in from right of 45 degrees	PC1
PC63	State Rt. 56	191	11.34	1		road		x				10	3.8					concrete HW (basically RCP)		PC3
PC7	State Rt. 160	536	34.21	1		road		x				7.6	6.6				70.0	P South WW 90' at 10 degrees North WW 9.3' at 90 degrees	stream makes 90 degree turn into pipe	PC
PC71	Mine/State Forest	141	12.57	1		road		х				3.7	4.0				100.0	RCP		PC1
PC73	Richland Twp	53	1.77	2		road		х				8	1.5					Both CMP		PC3
PC74	Railroad	715	19.63	2		RR		х				11	5.0			1		CMP both pipes 40% blocked by beaver dam		PC4
PC75	Private	29	1.13	3		road		х				2.5	1.2					All RCP 80% water flowing in middle 1.5' pipe		PC5
PC76	State Rt. 160	36	3.14	1		road		х				4.5	2.0				45.0	RCP		PC6
PC78	Private	22	3.14	1		walkway		х				1.3	2.0					RCP		PC8
PC79	State Rt	20	3.14	1		road		х				1	2.0				105.0	RCP		PC9
PC80	State Rt.	23	3.14	1		road		х				1.5	2.0				30.0	СРР		PC0

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Circular Culverts Calculation Sheet

Completed by: Checked by:

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe

RCP

W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe PW = Pier Width (if applicable Type Map ID. Owner or Address Part of Culvert NOTES Capacity of Obstruction SQ. FT) О (П (ft ID No Space PC1 26 2 2.0 SP PC81 3.14 road CMP has wooden channels 75' long as wide as pipe PC82 28 4.15 2.3 PC2 Private road PC83 Private/RR 364 19.63 road RR 12 5.0 SP HW 7.2' higher thank pipe and 18' long PC3 PC84 103 partly clogged 80% PC4 2.7 57 3 110.0 PC5 PC85 Windber Boro 5.73 road RCP 5% blocked by wood 65 5.73 2.7 CMP 10% blocked by rocks PC6 PC86 Windber Boro road 4 QC105 Lincoln Two 50 7.07 road CMP water flowing in to pipe from 2 sides QC05 QC106 Penn Dot Somerset Pike 149 9.62 CMP HW 4.5' high 2 WWs 4' each Looks okay QC06 road 3 5.0 QC07 QC107 Jenner Twp 430 19.63 road 2 CPP 2 WWs 12 each pipes encased in cement 3.0 RCP pipe isnt blocked QC113 Jenner Twp 50 7.07 road OC13 QC114 61 7.07 2 3.0 solid concrete HW 4.5' high 10.5' wide concrete has half mood shape pipe water running in well QC14 Jenner Two road QC119 67 7.07 2.5 QC19 Jenner Twp road QC120 Jenner Twp 96 12.57 road 4.0 RCP cement slabs roughly laid out pipe partially blocked by brush QC20 5.0 QC21 QC121 Jenner Two 160 19.63 road 60.0 BCP water coming in well QC122 Jenner Twp 71 9.62 road RCP water running in well OC129 47 3.14 1.5 2 CMP pipes Blocked 40% with wood debris QC29 Camp Sequanota road 3.5 QC132 71 9.62 road CPP encased in stone water flowing well QC32 4 0 230 12 57 2 QC33 QC133 Private road 2 RCP- one pipe is blocked, almost 100% All Water goes through east pipe 51 3.14 2 2 2.0 15.0 2 RCPs pipe on west side is blocked QC35 OC135 Jenner Twn road water going through other pipe 33 4.91 road 5.0 RCP 5% blocked QC37 QC137 Jenner Twp log jam in front of pipe QC47 QC147 86 9.62 road RCP Stone HW patchy Lincoln Twp Rocks surrounding pipe 3.5 QC50 QC150 Lincoln Twp 79 9.62 road 1.5 RCP first 5' of pipe is broke Rocks in front of pipe 116 2 4.0 QC51 12 57 QC151 Lincoln Twp road CMP water going in well 35 7.07 3.0 RCP encased in Stoney MSRY QC53 QC153 Lincoln Twp road QC157 Lincoln Twp 39 7.07 road loose rocks on both sides QC57 QC158 Lincoln Twp 66 7.07 road 2.5 3.0 15.0 RCP W WW 5' long 4' high MSRY QC58 picture QC6 QC16 Conemaugh Twp 72 7.07 road 3 3.0 CMP stones on both sides support pipe 2 RCP same size 2 WW 5' each HW 4' high 10' wide channel runs only under south end...why a pier?? Its small OC160 100 7.07 road QC60 Lincoln Twn QC161 Lincoln Twp 57 7.07 45.0 6' each water runs along south WW befor going in HW, cracked but okay QC61 road 4.0 QC167 Lincoln Twp 79 12.57 road 0.25 CPP looks new 624 3.5 8.0 50.27 large boulders to N side small stream comes in S side QC70 QC170 Lincoln Twp road SP looks new QC171 Lincoln Twp 35 7.07 3.0 RCP encased in msry S (SW) 6' HW 4' high QC71 road HW 6' wide 71 QC173 Llincoln Twp 9.62 CMP has a SWs N 8' long S 6' long shape QC73 road QC180 Lincoln Twp 61 7.07 road 2 3.0 RCP 5 end had loose rocks around it QC80 4.0 3 OC82 OC182 Lincoln Two 133 12.57 road CMP-Encased concrete msry HW 11' wide see drawing 50 3.0 QC84 QC184 Lincoln Two 7.07 road CMP QC85 QC185 Jenner Twp 23 3.14 road 1.5 CPP looks okay runs under farm road 23 3.14 1.5 QC86 QC186 Jenner Twp road water comes right out of a pond then into pipe QC187 Jenner Twp 48 4.91 road 3 2.5 15.0 RCP HW 5' wide 3' high all the pipe is submerged, must be jammed QC87

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Completed by: Checked by: Date(s): Stonycreek

Circular Culverts Calculation Sheet

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill
D= Diameter
HT = Height
W = Width msry = Stone Masonry Structure
CMP = Corrugated Metal Pipe
CPP = Corrugated Polyethylene Pipe
BCCMP = Bituminous Coated Corrugated Metal Pipe

					Openin	a							W = Widt PW = Pie		f applicable)	BCCMP = Bituminous Coated Corrugated Metal Pipe		
					Туре	9	Shape	(✓)		Measu	rement	ts	1 11 - 110	, man	тарріюцью)			
Mara ID	Owner or Address	Conneity	Area	Non	Part of	Culvert	Culver		 Bridge	т.	-	нт	147	PW	skew	-	NOTES	
Map ID. #	of Obstruction	Capacity (CFS)	(SQ. FT)	of?			Culver	0	C	(ft)	(ft)	(ft)	(ft)	(ft)	angle	material	NOTES	ID No Spa
QC189	Private, mine	175	19.63	1		road		x		1.5	5.	.0				SP No HW no SW No WW	flows in well	QC89
QC190	Private, mine	277	12.57	2		road		x		3.5	4.	.0			75.0	2 RCP same size 2 WW 5'	okay	QC90
QC195	Lincoln Twp	41	4.91	1		road		х		2	2.	.5				RCP		QC95
QC196	Lincoln Twp	30	3.14	1		road		х		3	2.	.0				RCP encased in msry S (SW) 6' HW 4' high	2 pipes have discharge coming out in front of pipe	QC96
QC197	Lincoln Twp	41	4.91	1		road		x		2	2.	.5				RCP 80% water flowing in middle 1.5' pipe	Almost Buried in Sediment	QC97
QC198	Lincoln Twp	23	3.14	1		road		x		1.5	2.	.0				СМР	out	QC98
QC199	Lincoln Twp	22	4.91	1		road		x		0	2.	.5				RCP-concrete HW	HW is cracked fell in creek, water backing up, needs replaced	QC99
QC20	Conemaugh Twp	145	7.07	1		road		x		15	3.	.0				CMP cement HW 4' 2 WWs 4' each		QC0
QC200	Lincoln Twp	23	3.14	1		road		x		1.5	2.	.0				CMP pipe is solid		QC00
QC201	Lincoln Twp	94	7.07	1		drive way		x		6	3.	.0				RCP-Msry HW 5' high 2 SWs-6' wide		QC01
QC203	Lincoln Twp	45	3.14	1		road		х		7	2.	.0				CMP 25% blocked with rocks and sticks	large rocks used as fill	QC03
QC204	PennDot 601	23	3.14	1		road		х		1.5	2.	.0				CPP	Swampy Area	QC04
QC205	Lincoln Twp	43	7.07	1		road		х		0.50	3.	.0				RCP		QC05
QC207	Lincoln Twp	42	4.91	1		road		х		2	2.	.5				BCCMP looks new		QC07
QC208	Jenner Twp	26	3.14	1		road		х		2	2.	.0			30.0	RCP		QC08
QC210	Quemahoning Twp	57	4.91	2		road		х		0.5	2.	.5				2 pipes same size one CPP 1 pVC	Nothing in PVC unless water is puddled up high enough	QC10
QC213	Conemaugh Twp	34	4.91	1		road		x		1	2.	.5				CPP blocke with Debris	stream channel blocked with debris water not flowing	QC13
QC214	Conemaugh Twp	17	3.14	1		road		х		0.5	2.	.0				CPP	Channel overgrown with weeds	QC14
QC215	Jenner Twp	20	3.14	1		road		х		1	2.	.0				RCP	creek channel is dry	QC15
QC217	Jenner Twp	17	3.14	1		road		х		0.5	2.	.0				RCP	pipe skewed to road 45 degrees	QC17
QC218	Quemahoning Twp	20	3.14	1		road		х		1	2.	.0				RCP	good	QC18
QC219	Quemahoning Twp	34	4.91	1		road		х		1	2.	.5				CPP	good	QC19
QC220	Quemahoning Twp	17	3.14	1		road		х		0.5	2.	.0				CPP	good	QC20
QC221	Quemahoning Twp	17	3.14	1		road		х		0.5	2.	.0				SP	large rocks in front pipe blocks ~25%	QC21
QC222	Jenner Twp	28	3.14	1		road		х		2.5	2.	.0				RCP	good	QC22
QC223	Jenner Twp	33	4.91	1		road		х		1	2.	.5				RCP	area very swampy	QC23
QC224	Jenner Twp	26	3.14	1		road		х		2	2.	.0				CMP	Area Swampy	QC24
QC228	Jenner Twp	22	4.91	1		road		x		0	2.	.5				RCP-2.5' Dia. CPP now installed	okay	QC28
QC229	Jenner Twp	28	3.14	1		road		x		2.5	2.	.0				RCP	okay	QC29
QC230	Jenner Twp	20	3.14	1		road		х		1	2.	.0				RCP	Okay	QC30
QC231	Penn Dot 210	212	12.57	1		219		x		10	4.	.0				concrete culvert HW 6' high 2 WW 6' each		QC31
QC232	Jenner Twp	35	3.14	1		road		x		4	2.	.0				CMP	okay	QC32
QC235	Abandonded Railroad	254	12.57	1		RR		x		15.0	4.	.0				SP concrete HW 7' HW	HW 16' W	QC35
QC238	Abandonded railroad	79	7.07	1		RR		x		4	3.	.0				SP HW 10' wide/4.5' high concrete HW	water backed up pipe is blocked	QC38
QC240	Private Boswell Res	41	4.91	1		road		х		2	2.	.5			60.0	RCP	Solid	QC40
QC243	Private	217	23.76	1	x	Drive Way		х		1.5	5.	.5				SP	good shape	QC43
QC33	Jenner Twp	107	12.57	1		road		x		1.5	4.	.0				CMP No HW no WW	Top 1/5 crushed, broken	QC3
QC40	Jenner Twp	123	12.57	1		road		x		2.5						solid cement HW 10' wide 5' high	gentleman has 12' CPP that carries stream in to culvert	QC0
QC42	Penn Dot Somerset Pike	71	7.07	1		road		x		3	3.	.0			45.0	solid cement HW 6' N WW 5' S SW 5'	looks okay	QC2
QC43	Private Farm	170	12.57	1		drive way		v		6	4.	0				RCP	solid	QC3

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Circular Culverts Calculation Sheet

Completed by: Checked by:

SC41

State Rt. 160 Paint Twp

4.91

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column T= Amount of fill msry = Stone Masonry Structure D= Diameter CMP = Corrugated Metal Pipe HT = Height CPP = Corrugated Polyethylene Pipe

RCP both WW 10' at 60 degrees

W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe PW = Pier Width (if applicable Type Map ID. Owner or Address Part of Culvert NOTES Capacity of Obstruction SQ. FT) 0000 ID No Space QC7 3.5 QC47 111 9.62 road 4 CMP encased with concrete 2 WW 7' each HW 4.5' Long pipe comes from pond in to culvert (Over) 56 7 07 15 3.0 60 N QC3 QC53 Jenner Two road RCP No HW. No WW. No SW looks okav 50 7.07 3.0 0.0 RCP No HW. No WW. No SW QC7 QC57 Jenner Two road no water running through, yard looks like a swamp QC67 71 9.62 RCP patchy stone HW 9' wide 4' high QC7 35 QC71 Jenner Twp 7.07 road 60.0 msry cement bebris and brush blocking front N WW 5' S WW 7' QC1 79 7.07 3.0 RCP loose stone piled around pipe OC6 QC76 Jenner Two road 4 break in pipe around 5 feet QC77 Jenner Two 66 7.07 road 2.5 RCP water flowing well QC7 QC83 Quemahoning Twp 81 7.07 CPP with concrete HW broken in half and slumping in rocks on both sides pipe filled about 25% with debris QC3 road 5.0 QC5 QC85 Lincoln Twp 161 19.63 road CMP water flowing well 61 2 3.0 QC88 Lincoln Twp 7.07 road RCP pipe is blocked 50% with debris Stones on top and sides pipe is old needs replaced QC8 55 7.07 1.4 3.0 QC9 OC89 Lincoln Two road CMD large gravel deposit upstream QC93 Lincoln Twp 576 50.27 2.5 BCCMP water running in well, pipe has large rocks large loose rocks as HW fairly New QC3 road QC94 Lincoln Twp 76 7.07 road 3.5 CMP has loose rocks as HW Pipe is fairly new QC4 62 2 3.0 QC97 Lincoln Twp 7.07 road CPP encased with loose rocks Water flowing in well OC7 QC98 Lincoln Twp 71 9.62 road RCP rocks both sides QC8 SC101 Paint Two 47 3.14 1.5 20.0 SC01 road CPP smooth inside SC102 State Rt. 160 56 7.07 road 1.5 3.0 RCP with concrete Hw and WW both WW 5' at 45 degrees SC02 SC03 SC103 State Rt 160 43 2.2 75 N 4 91 road RCP with concrete HW SC11 Walking Road owner 342 28.27 3.7 6.0 135.0 North WW 8 ft at 30 degrees South WW 7 ft at 60 degrees SC1 top of pipe SC113 Paint Twp 174 15.90 road 3.3 W WW 3.5' at 90 degrees SC13 SC114 Paint Twp 49 6.16 road 1.5 CMP SC14 2.5 SC17 SC117 Private Paint Twp 54 4.91 old road 4 SP 60 % blocked by sediemtn old non-traveled road 25 2.2 SC19 SC119 Windber Water Authority 1 SP 3.80 road SC12 60 8.30 3.3 60.0 SC2 Oale Twp road SC120 State Game Lands 228 66 7.07 road 2.5 RCP 50% backed by large rocks SC20 SC121 State Game Lands 228 154 9.62 road 1.4 3.5 RCP SC21 SC127 Buffalo trail 43 7.07 trail 0.5 3.0 CMP bottom of pipe is rusted out SC27 CMP 15% blocked by large rock SC3 SC13 Oale Twn 57 7.07 1.5 40.0 road SC130 Private (Rummel) 116 12.57 old road SC30 2 1.6 SC34 SC134 State Game Lands 64 2.01 row from north pipe 21 3.14 CMP SC37 SC137 Ogle Twp road SC15 State Rt. 56 (paint twp) 67 6.61 3 2.9 HW 1' high SC5 road SC16 7.07 2.5 RCP 5% blocked by small wooden fence SC6 Ogle Twp road SC19 Ogle Twp 49 4.91 road 3 100.0 CPP smooth inside SC9 2.5 SC21 Ogle Twp 38 4.91 road 1.5 CMP 5% blocked by rocks SC1 107 3.8 SC7 SC27 Oale Two 11.04 road 2.5 degrees Huge WW and msry SC9 SC29 Ogle Twp 157 15.90 2.3 88.0 degrees pipe sits at bottom of HW in middle rivatelly owned Mr. Rumm 67 7.07 2.5 SC3 road SC4 Private 238 19.63 road 4 5.0 CMP SC

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Circular Culverts Calculation Sheet

Completed by: Checked by:

SCR114

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

19.63

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe

CMP- left 20% blocked by big rock

W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe PW = Pier Width (if applicable Type Map ID. Owner or Address Part of Culvert NOTES Capacity of Obstruction SQ. FT) О (П (ft ID No Space 3 3.0 SC3 SC43 Ogle Twp 72 7.07 road CPP smooth inside Water skews in from right side of 45 degrees SC44 36 4 91 13 75.0 **BCCMP** SC4 Berward Co. road SC45 Berward Co. 38 4.91 1.5 causing water to dam up and flow over the road water flowing over raod is three inches deep and 6 feet wide SC5 road Shade Twp 12.57 RCP stream skews in front left at 10 degrees 3/4 through pipe 20ft pipe changes to CMP some D SC47 Shade Twp 151 11.34 road 0.5 RCP both 10% blocked by rocks and sticks SC7 28 0.5 2.5 SC8 SC48 Shade Two 4.91 road CPP Smooth inside SC52 Shade Twp 382 44.18 road 0.5 SC2 SC54 Shade Twp 117 7.07 road 10 60.0 RCP 60% blocked by debris, log jam SC4 4.0 70.0 SC6 SC56 Shade Twp 149 12.57 road 4.25 RCP 20% blocked by logs 48 5 110.0 CPP SC57 Private 2.01 road SC58 Private 117 3.14 1.5 2.0 80.0 4 small ones are CPP 1 large pipe is steel 3 middle small pipes are all 70% blocked large pipe 15% blocked SC8 road SC59 Shade Twp 95 9.62 2.7 road SC60 Shade Twp 298 15.90 road RCP SC0 47 2.0 CPP smooth inside SC4 SC64 Shade Twp 3.14 road 1.5 57 SC65 Shade Twp 7.07 road 1.5 105.0 CMP SC5 SC69 Shade Two 115 12.57 4.0 RCP SC9 road 2.5 SC70 Private 34 4.91 road CMP SC0 SC1 SC71 64 7 07 2 25 3.0 RCP-stoneblock headwall uppers 6x9' high Shade Twp road SC72 Shade Two 50 7.07 1 3.0 40.0 RCP same HW as above SC2 road SC73 Shade Twp 38 4.91 road 1.5 SC3 SC7 SC77 State Rt. 160 64 7.07 road 2.3 RCP 5.5 SC8 SC78 Shade Twp 265 23.76 road 3 CMP 272 1.7 6.0 RCP SC8 State 28 27 road SC80 Shade Twp 104 10.75 2.5 3.7 RCP SC0 road SC82 Shade Twp 12.57 road 75.0 SC2 SC84 Private 165 4.91 road 2 SP all even flow 3 eastren pipes 50% blocked by sediement and debris SC4 SC5 SC85 Private 83 7.07 road 45 3.0 BCP 70.0 SC6 SC86 Shade Twp 96 12.57 road RCP to section, about 4" drop SC87 Railroad 115 12.57 RR RCP SC7 46 2.5 2.5 SC9 SC89 Coal company 4.91 road CMP 45 2.5 SC0 4.91 RCP SC90 Shade Twp road SC91 133 12.57 RR 3 4.0 SC1 railroad CPP smooth inside 218 SC97 Coal Company 15.90 road RCP 10% blocked by debris (sticks and rocks) SCR23 Richland Twp 244 19.63 road 4.5 30.0 solid concrete HW 6.5' 2 WW 7.5' each looks okay SCR23 97 3.0 SCR30 SCR30 56 Penn Dot 7.07 56 6.5 solid concrete HW 4' 2 WW 4' each no water running through, dry Richland Twp 23 RCP No HW. No WW. No SW SCB31 SCR31 3.14 road 1.5 metal slab laying sideways on top of pipe?? No purpose 462 4.0 15.0 CMP HW 5' 2 WW 5'each SCR32 SCR32 Penn Dot 56 12.57 road 50 pipe blocked 20% with wood debris SCR104 57 7.07 1.5 SCR104 Conemaugh Twp road Rocks laid all around pipe SCR105 Conemaugh Twp 79 9.62 road 1.5 3.5 CMP SCR105

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Completed by: Checked by: Date(s): Stonycreek

Circular Culverts Calculation Sheet

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill
D= Diameter
HT = Height msry = Stone Masonry Structure CMP = Corrugated Metal Pipe CPP = Corrugated Polyethylene Pipe

					Oponin	~								W = Widt		f applicable	BCCMP = Bituminous Coated Corrugated Metal Pipe		
					Opening Type	y	Shape	· (V)			Measu	rement	S	rvv = Pie	a Anatu (i	applicable			
Mao ID.	Owner or Address	Capacity	Area	Nor	Part of	Culvert	Culver	,		Dalatasa	-	-	нт	144	PW	skew		NOTES	
мар ID. #	of Obstruction	(CFS)	(SQ. FT)		Bridge?		Cuiver	0		Bridge	(ft)	(ft)	(ft)	(ft)	(ft)	angle	material	NOTES	ID No Space
SCR118	601 Penn Dot	86	9.62	1		road		х			2	3.	5				RCP loose rocks lay around it	pipe is blocked ~20% with vegetation	SCR118
SCR119	601 Penn Dot	97	12.57	1		road		x			1	4.	0				CMP loose rocks lay around it	barely any water	SCR119
SCR120	Conemaugh Twp	175	19.63	1		road		х			1.5	5.	0			45.0	CMP	Okay	SCR120
SCR132	Shade Twp	66	7.07	1		road		х			2.5	3.	0				RCP bottom 1/5 blocked by wood debris	Patchy stone HW 16' wide 4.5' high	SCR132
SCR144	Shade Twp	239	9.62	2		road		x			5	3.	5				RCP- 2 pipes both same side	One pipe does not have any water running through it	SCR144
SCR150	Quemahoning Twp	50	7.07	1		road		x			1	3.	0				RCP HW-11' wide 3.5' high		SCR150
SCR152	PennDot 403	112	7.07	1		road		x			9	3.	0				Concrete HW 4.5' 2 WWs 9' each		SCR152
SCR176	Quemahoning Twp	285	28.27	1		road		х			2	6.	0				SP loose rocks around it	okay	SCR176
SCR178	Quemahoning Twp	308	38.48	1		road		х			0.2	5 7.	0				SP no WW, SW, HW	water is high fills ~1/2 pipe	SCR178
SCR179	Quemahoning Twp	126	19.63	1		road		х			0	5.	0				solid cement HW 6' 2 WW 7' each	creek is high, ~1/2 pipe filled - Location Unknown	SCR179
SCR186	Shade Twp	50	7.07	1		road		х			1	3.	0			15.0	CPP	Flowing well	SCR186
SCR187	Shade Twp	71	9.62	1		road		х			1	3.	5				RCP		SCR187
SCR192	Shade Twp	321	23.76	2		road		х			0	5.	5		1.5		Concrete 2 WWs 7' each HW-7' high/12.5' wide	All water currently running in east opening AMD	SCR192
SCR196	Stonycreek Twp	50	7.07	1		road		х			1	3.	0				CMP water moving slow	slight damage to top (no big deal)	SCR196
SCR197	Shade Twp	50	7.07	1		road		х			1	3.	0			45.0	RCP	edges of pipe starting to break up (~6" worth)	SCR197
SCR198	Stonycreek Twp	144	19.63	1		road		х			0.5	5.	0				SP loose rocks around act like a HW ~5' high ~20' wide	okay	SCR198
SCR209	Comemaugh Twp	20	3.14	1		road		х			1	2.	0				RCP		SCR209
SCR210	Comemaugh Twp	33	4.91	1		road		х			1	2.	5				RCP flowing well	surrounded by rocks	SCR210
SCR217	Shade Twp	38	4.91	1		road		х			1.5	2.	5				RCP loose stone rocks act as HW	No water in Creek	SCR217
SCR218	Shade Twp	21	3.14	1		road		х			1	2.	0				CMP	Pipe surrounded by rocks	SCR218
SCR219	Shade Twp	20	3.14	1		road		х			1	2.	0					, , ,	SCR219
SCR220	Shade Twp	23	3.14	1		road		х			1.5	2.	0				SP loose rocks over pipe acts as HW	no water flowing in creek	SCR220
SCR221	Shade Twp	106	12.57	1		road		х			1.5	4.	0				RCP	Pipe in swampy area	SCR221
SCR222	Shade Twp	38	4.91	1		road		х			1.5	2.	5				CPP	Hardly any water flowing	SCR222
SCR223	Shade Twp	51	3.14	1		road		х			10	2.	0				RCP	, , , ,	SCR223
SCR50	Private	515	50.27	1		Drive Way		х			1.5	8.	0				CMP-Stones Filled in all around		SCR50
SCR51	Private	2134	132.73	1	х			х			6	13	.0				100ft		SCR51
SCR54	Private	200	23.76	1		road		х			1	5.	5			30.0	Sp-no WWs HWs SWs		SCR54
SCR59	Comemaugh Twp	43	7.07	1		road		x			0.5	3.	0				CPP Rocks around sides		SCR59
SCR60	Private	72	12.57	1		road		x			0.0	4.					CMP-2 wood WWs-10' each		SCR60
SCR61	Private	85	12.57	1		road		x			0.5						SP-no WWs		SCR61
SCR64	Private	161	19.63	1		road		х			1	5.	_				CMP-Patch Stone SWs		SCR64
SCR67	Conemaugh Twp	79	9.62	1		road		x			1.5	3.	5				RCP		SCR67
SCR71	Conemaugh Twp	212	19.63	1		road		x			3	5.					SP-Big Rocks Around Pipe		SCR71
SCR84	Conemaugh Twp	133	12.57	1		road		x			3	4.	_				CMP-encased in loose stone rocks		SCR84
SCR95	Scaip Avenure Richard (Ferin	133	9.62	1		road		x			6.5		_				solid concrete HW 5' 2 WW 6' each	W WW has hole in it with water coming out (pipe?)	SCR95
SR10	Brothersvalley Twp	156	13.85	1		road		×			3.5		_		1		concrete both WW 8' at 30 degrees	material and material and place (pipe:)	SR0
SR100	Somerset Twp	722	70.88	1		road		x			1	9.	_		1	135.0	SP		SR00
SR101	Somerset Twp	67	7.07	1		road		x			2.5		_		1	80.0	CMP		SR01
SHIUI	Somerset Twp	96	12.57	+	1	road	1	_	+		1	4.	_		1	80.0	RCP		SR03

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Circular Culverts Calculation Sheet

Completed by: Checked by:

SR144

SR146

SR147

SR149

SR15

SR150

SR151

SR152

SR153

SR16

SR162

SR164

SR17

SR173

SR174

SR175

SR18

SR181

SR182

Somerset Twp

State Rt 219

Somerset Twp

Quemahoning Twp

Brothersvalley Twp

Quemahoning Twp

Quemahoning Twp

Quemahoning Twp

Brothersvalley Twp

Quemahoning Twp

Stonycreek Twp

Brothersvalley Twp

Stonycreek Two

State Rt. 160

State RT. 160

State Rt 160

Private (Farmer)

Coal Company (PBS)

83

493

232

200

37

340

15

43

217

50

101

216

72

212

123

129

64

71

7.07

15 90

12.57

19.63

5.31

41.28

1.77

9.62

15.90

road

road

road

road

road

road

road

road

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

Type

T= Amount of fill msry = Stone Masonry Structure D= Diameter CMP = Corrugated Metal Pipe HT = Height CPP = Corrugated Polyethylene Pipe W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe

PW = Pier Width (if applicable

Map ID. Owner or Address Part of Culvert NOTES Capacity f Obstruction SQ. FT) О (П (ft ID No Space 3.0 RCP SR05 SR105 Somerset Twp 40 7.07 road 0.3 SR109 66 7 07 2.5 75 O SP SR09 Quemahoning Twp road 115.0 SR1 SR11 Brothersvallev Two 62 7.07 3.0 RCP 10% blocked by debris road SR110 Quemahoning Twp 12.57 75.0 SR10 SR112 Somerset Twp 39 7.07 road 0.25 CMP top of pipe dented down blocking 10 % of opening. SR12 SR115 57 1.77 1.5 SR15 Private road 2 all CMP SR116 Private Beal Auto Repairs 96 12.57 road SR16 SR120 Somerset Twp 50 7.07 road 135.0 RCP SR20 62 0.5 3.5 SR21 SR121 Private 9.62 road Metal pipe smooth inside 5% blocked by debris (logo) 1.5 4.0 SR123 Somerset Twp 106 12.57 road 120.0 RCP 5% blocked by large rocks in bottom of pipe SR23 SR124 Somerset Twp 54 7.07 1.3 3.0 45.0 CMP SR24 road SR126 Lincoln Twp 115 12.57 road RCP 10% blocked by debris (sticks) SR26 SR127 Private 50 7.07 road CMP SR27 3.0 110.0 SR130 Quemahoning Twp 43 7.07 road 0.5 CPP smooth inside SR30 SR135 Quemahoning Twp 57 7.07 road 1.5 CMP SR35 SR136 Quemahoning Twp 81 7.07 road 3.0 CMP 10% blocked by large rocks SR36 SR138 Lincoln Somerset Twp 214 12.57 road 1.5 4.0 CMP both pipes 5% blocked by debris SR38 1 77 R40 SR140 Somerset Two 14 CMP/CMP smooth inside SR141 Somerset Two 76 7.07 3.5 3.0 CMP inside stone HW 11.5' wide and 1.75' above pipe SR41 road SR142 Private 43 7.07 road 0.5 3.0 135.0 CPP smooth inside SR42 2.5 SR143 Private 64 4.91 road 105.0 RCP SR43 3.0 SR44

4.5

35 4.5

2 4.0

2.5

0.3

0.2

2.6

7.3

3.5

70.0

10.0

110.0

RCP stone HW 4' tall x 12' wide

degrees

CMP

CPP smoth inside

SP

Both SP

SP

CMP

SR46

SR47

SR49 SR5

SR50

SR51

SR81

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Completed by: Checked by: Date(s): Stonycreek

Circular Culverts Calculation Sheet

SR226

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill
D= Diameter
HT = Height msry = Stone Masonry Structure CMP = Corrugated Metal Pipe CPP = Corrugated Polyethylene Pipe

RCP 30% blocked by sticks and rocks

(-)				Opening							W = Width			BCCMP = Bituminous Coated Corrugated Metal Pipe						
					Openin Type	g	Shape	e (v)			-	Measurem	ents	4	PW = Pier	Width (if	applicable)		1	4
												iioaoai oii								
Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?		Culvert Purpose	Culver		0	Bridge		ft)		HT \((ft) (PW (ft)	skew angle	material	NOTES	ID No Space
SR183	Coal Company (PBS)	831	19.63	3		road		х				6	5.0	Ī			100.0	CMP 2 South pipes 5% blocked by debris		SR83
SR184	Coal Company (PBS)	500	28.27	1		road		х				10	6.0				100.0	CMP		SR84
SR186	tonycreek Twp Indian Lake Bo	300	28.27	1		road		x				2.5	6.0					SP Both WW 5.5' at 60 degrees msry		SR86
SR187	onycreek Twp Indian Lake Bo	61	7.07	1		road		х				2	3.0				115.0	RCP		SR87
SR188	tonycreek Twp Indian Lake Bo	191	11.04	2		road		x				1.75	3.8					RCP		SR88
SR189	tonycreek Twp Indian Lake Bo	1141	28.27	4		road		x				2	6.0					BCCMP both WW 7' at 90 degrees WW and HW riprnp	HW is 26' wide and 1.5' higher than pipes	SR89
SR19	State Rt 160	72	7.07	1		road		x				3	3.0				105.0	CMP		SR9
SR191	State Rt. 30	175	19.63	1		road		x				1.5	5.0				135.0	RCP		SR91
SR194	PA Turnpike 70/76	161	9.62	1		road		x				10	3.5				60.0	Both WW 7.5' at 60 degrees 5% blocked by cement RCP		SR94
SR198	Private	96	12.57	1		road		x				1	4.0					RCP		SR98
SR199	Indian Lake Boro	28	3.14	1		road		x				2.5	2.0				115.0	RCP 10% blocked by wood		SR99
SR2	Brothersvalley Twp	76	7.07	1		road		x				3.5	3.0					RCP		SR
SR20	State Rt. 160	50	7.07	1		road		x				1	3.0					CMP south side of pipe bent in blocking 5% of opening		SR0
SR200	Indian Lake Boro	26	3.14	1		road		x				2	2.0					CMP		SR00
SR201	Shade Twp	30	3.14	1		road		х				2.8	2.0					CPP		SR01
SR202	Quemahoning Twp	26	3.14	1		road		x				2	2.0				65.0	SP		SR02
SR204	Stonycreek Twp	28	3.14	1		road		x				2.5	2.0				45.0	RCP		SR04
SR205	Stonycreek	28	3.14	1		road		x				2.5	2.0					RCP 70% blocked by large rocks and sticks		SR05
SR206	Stonycreek Twp	23	3.14	1		road		x				1.5	2.0				70.0	RCP		SR06
SR207	Stonycreek Twp	29	3.14	1		road		х				2.5	2.0				80.0	CMP		SR07
SR209	Stonycreek Twp	29	3.14	1		road		х				2.5	2.0					CMP		SR09
SR21	Brothersvalley Twp	57	7.07	1		road		х				1.5	3.0					CPP smoth inside		SR1
SR210	Stonycreek Twp	28	3.14	1		road		x				2.5	2.0				110.0	RCP		SR10
SR211	Somerset Twp	87	9.62	1		road		x				2	3.5					CMP		SR11
SR212	Somerset Twp	54	7.07	1		road		x				1.3	3.0					CMP		SR12
SR213	Somerset Twp	34	3.14	1		road		x				4	2.0					RCP		SR13
SR214	Somerset Twp	27	3.14	1		road		x				2.2	2.0					CPP-smooth inside		SR14
SR215	State Rt. 281	86	9.62	1		road		x				2	3.5	凵			60.0	RCP		SR15
SR216	Somerset Twp	20	3.14	1		road		x				1	2.0	\dashv			120.0	RCP		SR16
SR217	Somerset Twp	25	3.80	1		road		x				1	2.2				110.0	RCP		SR17
SR218	Private	66	4.91	1		road		x				6	2.5					CMP 70% blocked by rocks and sedimate		SR18
SR219	Somerset Twp	11	0.79	2		road		x				1.5	1.0				70.0	1-CPP 1-CMP		SR19
SR22	Brothersvalley Twp	33	4.91	1		road		x				1	2.5				80.0	SP		SR2
SR220	Somerset Twp	29	3.98	1		road		x				1.25	2.3					BCCMP		SR20
SR221	Somerset Twp	56	7.07	1		road		х				1.5	3.0	╝			50.0	South WW 4' at 90 degrees RCP		SR21
SR222	Somerset Twp	26	3.14	1		road		х				2	2.0				110.0	CMP		SR22
SR223	Somerset Twp	17	3.14	1		road		х				0.5	2.0				75.0	SP		SR23
SR224	Somerset Twp	21	3.14	1		road		х				1	2.0				135.0	CPP		SR24
SR225	Somerset Twp	20	3.14	1		road		х				1	2.0				105.0	RCP		SR25

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Circular Culverts Calculation Sheet

Completed by: Checked by:

SR7

Brothersvalley Twp

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

12.57

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe

Both pipes RCP

W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe PW = Pier Width (if applicable Type Map ID. Owner or Address Part of Culvert NOTES Capacity of Obstruction SQ. FT) ID No Space SR27 SR227 27 2.1 2.0 70.0 CPP Somerset Twp 3.14 road SR228 25 1.77 1.5 BCCMP SR28 Somerset Twp road SP SR29 SR229 Quemahoning Two 23 3.14 1.5 road SR230 RCP 61 2 SR231 Somerset Twp 7.07 road RCP SR31 SR232 26 2 2.0 RCP SB32 Somerset Two 3.14 road SR233 Stonycreek Twp 132 9.62 road CMP SR33 SR234 Brothersvalley Twp 26 3.14 road CMP SR34 3.5 5.0 SR36 SR236 Turnpike 70/76 223 19.63 road RCP both WW 9' at 45 degrees WW Concrete 7 3.0 SR237 PA Turnpike 70/76 100 7.07 road RCP with channels SR37 SR24 State Rt. 31 81 7.07 road 4 3.0 100.0 SR4 CMP SR26 State Rt. 31 234 19.63 road concrete HW is 1' above top of pipe SR27 Brothersvalley Twp 96 12.57 road 4.0 RCP SR7 3.5 70.0 SBS SR28 Brothersvalley Twp 150 9.62 road 1.25 Both RCP SR3 Brothersvalley Twp 237 15.90 road 110.0 both WW 7.5 at 60 degrees 10% blocked by sediment and sticks SR30 Private 160 19.63 road 5.0 80.0 SP SR0 2.1 SR32 Private 120 3.46 road 2.2 CMP CPP CMP Large CMP 10% blocked by debris SR2 SR3 SR33 Private 18 1.77 0.5 CMP road SR34 Stonycreek Twp 62 7.07 2 3.0 70.0 CMP SR4 road SR36 Stonycreek Twp 38 4.91 road 1.5 RCP SR6 SR8 SR38 Brothersvalley Twp 242 18.10 road 0.2 70.0 Both SP 3.0 SR9 SR39 Brothersvalley Twp 56 7.07 road 1.5 110.0 RCP 64 2.3 3.0 60.0 RCP SR0 SR40 Brothersvalley Twp 7 07 road SR41 Brothersvallev Twp 66 7.07 2.5 3.0 75.0 SR1 road SR4 Private 164 9.62 road 1.75 100.0 Loose pipe-SP small pipe-plastic SR5 SR45 State Rt 160 79 7.07 road 3.0 75.0 RCP has channel pipe to pour water in SR46 State Rt 160 64 7.07 road 2.25 3.0 RCP same channel type as above SR6 SR7 SR47 Stonycreek Twp 112 15.90 road 0.5 SR49 Stonycreek Twp 223 28.27 road SP SR9 0.5 8.0 SP SB SR5 Brothersvalley Twp 446 50.27 road 71 2 3.0 7.07 road RCP SR0 SR50 Stonycreek Twp SR51 Stonycreek Twp 335 38.48 road 0.7 7.0 SP SR1 76 9.62 1.3 100.0 SR3 SR53 Stonycreek road SR56 Stonycreek Twp 35 3.14 road 0.6 2.0 RCP SR6 2.5 80.0 SR7 SB57 Stonycreek Two 30 4.91 road 0.7 BCP. 62 7.07 3.0 SR58 Brothersvalley Two road 2 CMP SR8 1842 63.62 9.0 60.0 SR9 SR59 Stonycreek Twp road 29 CMP concrete bottom blocks 3-5% of pipe 106 12.57 1.5 SR3 Stonycreek Twp road SR65 Stonycreek Twp 25 4.91 road 0.2 70.0 SP SR5

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek

Owner or Address

Private

Stonycreek Twp

Stonycreek Twp

Mine Company

Stonycreek Twp

Stonycreek Twp

Stonycreek Twp

Stonycreek Twp

Somerset Twp

Somerset Twp

Brothersvalley Twp

Somerset Twp

Somerset Twp

of Obstruction

Map ID.

SR71

SR76

SR77

SR78

SR80

SR82

SR83

SR84

SR85

SR87

SR89

SR9

SR91

SR92

SR98

Watershed: Stonycreek Circular Culverts Calculation Sheet Completed by:

Checked by:
Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill
D= Diameter
CMP = Corrugated Metal Pipe
HT = Height
CPP = Corrugated Polyethylene Pipe
W = Width
BCCMP = Bituminous Coated Corrugated Metal Pipe

PW = Pier Width (if applicable) Type Capacity (CFS) Part of Culvert NOTES SQ. FT) ID No Space 4.0 SR1 145 12.57 4 RCP 10% blocked by rocks and sticks road 79 9.62 1.5 100.0 BCCMP SR6 road 101 12.57 1.25 4.0 RCP SR7 road 7.07 RCP SR8 84 2 2.5 60.0 CMP SR0 4.91 road 96 12.57 4.0 105.0 RCP SR2 1 road 50 7.07 road CMP SR3 40 7.07 road 70.0 RCP SR4 175 19.63 1.5 5.0 SR5 road

105.0

110.0

100.0

115.0

RCP

RCp

RCP

SP

CPP smooth inside

3.0

3.0

0.7

1.3 3.0

1.5 0.5

415

46

54

57

85

50

7.07

7.07

7.07

12.57

7.07

4.91

road

road

road

road

road

road

SR7

SR9

SR1

SR2

Watershed: Stonycreek

Elliptical Culverts Calculation Sheet

Completed by: Checked by: Date(s):

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe
W = Width BCCMP = Bituminous Coated Corrugate

Date(s):	NOTE: Different parameters ass	ignea to Ci	WP and RCP (cuiver	ts in cap	bacity column							HT = Height W = Width		В	CPP = Corrugated Polyethylene Pipe BCCMP = Bituminous Coated Corrugated Metal Pipe		
						Oper		Shape	. (. ()				PW = Pier W rements	Vidth (if	applic	cable)		
						Туре						ivieasu						
Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)		Part of Bridge?	Culvert Purpose	Cu	0 O	Bridge	T (ft)	D (ft)	HT (ft)		W sk		material	NOTES	ID No Space
BC100	NF CC	1853	25.13	5	х	road		x		7.00		4.0	8.0			5 CMP wood HW 6' above pipes culvert/bridge combo	total width 48' see other side	BC00
BC105	Upper Yoder Twp	91	11.00	1		road		x		1.5		3.5	4.0	30	0.0	CMP loose block/rock layed around it	the 4x3 pipe is inside a 5x4.5' pipe?	BC05
BC107	Private	51	3.93	1		drive way		х		6		2.0	2.5			RCP good condition	runs ~80' under yard and road	BC07
BC108	Private	94	8.25	1		drive way		х		4		3.0	3.5			CMP solid	blocked 15% by wood debris	BC08
BC109	Upper Yoder Twp	51	3.14	3		road		х		0.5		2.0	2.0			SP no water runs though, RCP RCP water runs through	West/East	BC09
BC110	Conemaugh Twp	64	12.96	1		road		x				3.0	5.5			CMP encased in msry msry HW 6' high 8' wide		BC10
BC113	Conemaugh Twp	34	3.93	1		road		x		2		2.5	2.0			CMP		BC13
BC114	Conemaugh Twp	66	8.25	1		road		x		1.5		3.0	3.5			CMP	large rock blocks bottom third of pipe	BC14
BC120	Private	223	21.60	1		drive way		x		2.5		5.0	5.5			CMP	Bottom 1/10 of pipe rusted out	BC20
BC125	Conemaugh Twp	87	3.93	1		road		x		18		2.0	2.5			CMP encased in loose stone Poor drainage	wood and stone	BC25
BC126	Private	244	23.56	1		road		x		2.5		5.0	6.0			CMP encased in loose stone	flowing well	BC26
BC130	Private	91	12.37	1		road		x		1		3.5	4.5			SP No HW, SW pipe is rusted		BC30
BC140	Penn dot Somerset East Pike	71	8.25	1		road		x		2		3.0	3.5			RCP	opening pipe is cut at 15 degree angle	BC40
BC142	Private	134	11.78	1		drive way		х		4		3.0	5.0	75	5.0	CMP wood HW 4'	pipe is oblonged shape	BC42
BC143	Private	202	17.67	1		drive way		x		4		3.0	7.5	75	5.0	CMP wood HW 4'	pipe is oblonged shape	BC43
BC144	271 Penn Dot Cambria County	60	3.93	1		road		x		8.5		2.0	2.5			solid concrete HW 6'	above	BC44
BC17	Conemaugh Twp Back Shaffer Bridge Rd	93	10.60	1		road		x		2		3.0	4.5	0	.0	CMP	does not look like stream runs all year	BC7
BC2	Private Owner Mill on Drive	261	18.85	1		private drive		x		6		4.0	6.0			CMP/nothing	high water	BC
BC24	Conemaugh Twp just near NF res	147	11.00	1		road		x		6		3.5	4.0	45	5.0	RCP cement HW 8' long, 8' high	base is cracked/eroded opposite side face fell in	BC4
BC28	Conemaugh Twp	156	15.71	1		road		x		2.5		4.0	5.0			CMP with msry support/fill	fell in	BC8
BC29	Conemaugh Twp	59	8.25	1		road		×		1		3.0	3.5			CPP	new pipe very little fill, stream is small	BC9
BC30	Penn Dot	51	4.71	1		road		×		4		2.0	3.0			solid cement	has a hold area area before going in to pipe	BC0
BC33	Private	160	18.85	1		drive way		×		1.5		4.0	6.0			CMP ~10% filled with sediment and gravel	patchy rock headwall ~10x6'	BC3
BC40	Private	109	18.85	1		drive way		×		1.5		4.0	6.0			MSRY wooded bridge 2 WW Both 5.5'	rocks on edges	BC0
BC49		311	32.99	1		road		×		1.5		6.0	7.0	45	5.0	CMP fairly new, enclosed with rocks		BC9
BC51	Conemaugh Twp Penn Dot	347	23.56	1		road		×		7		5.0	6.0	44.	5.0	RCP HW 12' high loose stone HW	water going in well Headwall surrounded by stone	BC3 BC1
BC54	Conemaugh Twp	301	31.81	1		road		x		2		4.5	9.0			CMP pipe would be 9' high cut in half, encased in stone	both sides have stone walls	BC4
BC56	Private	169	17.67	T:		road		×		2		5.0	4.5					BC4 BC6
BC57	Penn Dot	67	9.42	1		road		×		1		3.0	4.0			Steel pipe encased with rocks 1 HW BCCMP 30% filled with gravel	Patchy Stone HW 20'	BC7
				2						<u> </u>						•	Aluminum wings ~6' long used to channelize water	
BC62	Jenner Twp	312	15.71	2	1	road		x		2.5	1	4.0		.0	+	2 CMP east pipe has 95% of water through it	burried pipe to road skew ~45 degrees	BC2
BC63	Jenner Twp	325	17.67	1		driveway		x		12	+	4.5	5.0		+	SP crushed in ~2 on top, all rusty	stone/tire HW ~ 20' high 25' wide	BC3
BC65	Conemaugh Twp	89	8.25	1		road				3.5	-	3.0	3.5	+	\dashv	CPP some small stone encases pipe ~4' each side	water runs though smoothly	BC5
BC66	Conemaugh Twp	211	23.56	1		road		x		1.5		5.0	6.0	-	+	CMP W SW 7' long made of stone	log retaining wall ~ 25' long on past SW	BC6
BC67	Jenner Twp	1474	75.40	1	1	road		x		12	1	8.0	12.0	-	+	CMP 2 WW 9' long HW cased around pipe	cement	BC7
BC71	Private	228	17.67	1	1	drive way	+	x		5	1	5.0	4.5	-	+	RCP	clear	BC1
BC72	Jenner Twp	81	14.14	1		road	+	х		-	-	4.0	4.5		_	RCP West WW 4' East HW 2' into bank	Stone SW along road 20' long 3.5' high	BC2
BC73	Jenner Twp	595	23.56	2		road		x		4.5	-	5.0		.0	+	2 CMP-same size HW stone 13' long 7' high	filled 10% with concrete	BC3
BC79	Jenner Twp boot wash	350	32.99	1		road		x		2.5	-	6.0	7.0		+	RCP stone HW 22' long surrounds pipe 9' high	Channel hits west side of headwall, then goes in to pipe	
BC80	Jenner Twp	425	30.63	1	1	road		x		5.5	1	6.5	6.0	60	0.0	SP W SW 10' long 7' high East Wall is natural break	made of tires and rocks	BC0
BC86	Jenner Twp	118	8.25	2		road		x		1	-	3.0	3.5			2 CMP 10% filled with concrete block headwall 17' wide 4' high	like an overflow pipe	BC6
BC90	Penn Dot	85	8.25	1		road		x		3.25		3.0	3.5			RCP cut back 8' from bottom to top	rocks fill this area ~ 20%	BC0
BC91	Private	399	42.41	1		drive to club		x		1.5	1	6.0	9.0	_	_	CMP bottom submerged in 2' of water, looks flattened	two streams meet at the pipe in bottom 1/5 of pipe	BC1
BC93	Private	136	12.37	1		private road		x		3.5		3.5	4.5		_	CMP stone loosely around it	just downstream from a small, unidentified dam	BC3
PC23	Richland Twp	102	11.78	1		road		x		2		3.0	5.0		_	RCP South WW 7'7" at 60 degrees, North WW 7'7" at 60 degrees	Slight skew from right side (water)	PC3
PC24	Richland Twp	132	11.78	1		road		x		4		3.0	5.0			not on topo map	origin unknown	PC4

Watershed: Stonycreek

Elliptical Culverts Calculation Sheet

Completed by: Checked by: Date(s):

Date(s): NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

T= Amount of fill msry = Stone Masonry Structure
D= Diameter CMP = Corrugated Metal Pipe
HT = Height CPP = Corrugated Polyethylene Pipe
W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe

					Oper	ning				1		W = Wid PW = Pic		h (if app	BCCMP = Bituminous Coated Corrugated Metal Pipe (icable)		
					Туре		Shap	e (√)			Meası	rements		. (
Map ID.	Owner or Address	Capacity	Area	Nos. F	Part of Culvert	-	Culvert	В	ridge	Т	D HT	W	PW	skew		NOTES	
#	of Obstruction	(CFS)	(SQ. FT)		Bridge? Purpose		0 0				(ft) (ft)	(ft)	(ft)	angle	material		ID No Space
PC55	Paint twp	616	60.48	1	road		,	ĸ		0.5	11.0	7.0			flatten on bottom made that way		PC5
PC69	Private	794	66.37	1	road		,	ĸ		1.4	13.0	6.5			at 45 deg		PC9
PC70	State Rt. 601 (Windber Twp)	183	17.67	1	road		,	ĸ		2.5	5.0	4.5			CMP Floodwall on Southside of stream 50' long with 6' high	Pipe WW in bottom of 5' wide and 6' high HW	PC0
QC1	Private	154	17.67	1	drive way		,	ĸ		1.5	4.5	5.0			CMP No HW	Filled about 10 % with stream gracel water looks horrible	QC
QC112	Private Kalina Dr.	120	15.71	1	road		1	ĸ		1	4.0	5.0			SP area is very swampy and appears almost flooded	high	QC12
QC118	Jenner Twp	67	9.42	1	road		,	ĸ		1	3.0	4.0			CMP pipe is 9 inches from over flowing	swampy flooded area	QC18
QC123	Jenner Twp	132	15.71	1	road		1	ĸ		1.5	4.0	5.0			solid cement HW 5' high 2 WWs 6' each	stream is small, water running well	QC23
QC124	Jenner Twp	216	14.14	2	road			ĸ		1	4.0	4.5	3.5	30.0	2 RCP encased in cement HW 5' E WW 7' W WW 8'	debris ~ 20% blocking W pipe	QC24
QC126	Penn Dot 985	277	14.14	1	road		1	ĸ		14	4.0	4.5		0.0	solid concrete HWs 5' E SW 5' W WW 6'	cement of HW and WW starting to break up slightly	QC26
QC127	Penn Dot 985	177	5.89	1	road		,	ĸ		35	2.5	3.0			solid concrete HW 3.5' high 5.5' wide	runs all the way under 985, ~150 feet	QC27
QC131	Jenner Twp	61	7.85	1	road		1	ĸ		1.5	2.5	4.0			CMP stone HW 5.5' high 8' wide	huge log jam just downstream	QC31
QC136	Jenner Twp	40	5.89	1	road		,	ĸ		1	2.5	3.0		45.0	RCP		QC36
QC143	Jenner Twp	109	14.14	1	road			ĸ		1	4.0	4.5			CMP brush all around pipes		QC43
QC144	Jenner Twp	125	17.67	1	road		,	ĸ		0.5	4.5	5.0			RCP water going in well		QC44
QC152	Lincoln Twp	835	71.47	1	road			ĸ		3	7.0	13.0			CMP Water flowing well		QC52
QC155	Twp, Old Railroad	181	15.71	2	rail road		,	ĸ			4.0	5.0			MSRY SP encased in stone HW 24 feet Wide, 7' high	2 Pipes blocked 20% by debris cracked HW	QC55
QC156	Lincoln Twp	77	4.71	4	road			ĸ			2.0	3.0			MSRY cement has 4 pipes HW 30' wide 4.5' high	slow	QC56
QC159	Lincoln Twp	60	7.85	1	road		,	ĸ		1.5	2.5	4.0		15.0	solid concrete HW 4' high 6.5' long	stream was through	QC59
QC164	Private Quemahoning Creek Headwater	143	15.71	1	Drive Way		,	,		2	4.0	5.0			RCP encased in concrete HW 6' high 12' wide 2 low angle WW 7' each	looks okay	QC64
QC166	Lincoln Twp	102	9.42	1	road			ĸ		3.5	3.0	4.0		60.0	CPP wood HW 12' Wide 5' high	looks okay	QC66
QC168	Penn Dot 985	165	23.56	1	road		,	,		0	6.0	5.0			CMP encased in cement HW 7' 2 WW 8' each		QC68
QC169	Penn Dot 985 Quecreek	18546	772.83	1	985 road		,	,		15	24.0	41.0			solid concrete HW 26' high 2 WW 30' each	big structure looks solid	QC69
QC191	Jenner Twp	30	3.93	1	road					1.5	2.5	2.0			RCP	creek channel very grassy	QC91
QC192	Penn Dot somerset Pike	90	9.82	1	road		,	,		2.5	2.5	5.0			solid concrete HW 4' high 7' wide 2 WW 5' each	okay	QC92
QC194	Penn Dot Somerset Pike Jennerstown	393	25.92	1	road		,	,		7	5.5	6.0		30.0	CMP encased in concrete HW 7' 2 WW 8'	creek ran along S WW before going under road	QC94
QC202	Lincoln Twp	16	3.93	1	road			ĸ		0	2.0	2.5			CMP-msry HW	replicated	QC02
QC209	Jenner Twp	80	8.25	1	road		,	,		2.5	3.5	3.0			CPP	· · · · · ·	QC09
QC21	Quemahoning Twp	107	11.00	1	road		Η,			2.5	3.5	4.0			CPP top crunched into 6"	Log Jam in front of pipes pipe blocked 25%	QC1
QC211	Quemahoning Twp	63	5.89	1	road					3.5	2.5	3.0			CMP		QC11
QC216	Jenner Twp	51	3.93	1	road		Η,			6	2.0	2.5			RCP encased in msry HW 5' wide 3' high	onlytop half of pipe is there looks pretty bad	QC16
QC22	Quemahoning Twp	139	21.60	1	road		Ш,	,			5.0	5.5		60.0	RCP encased in concrete HW 6.5'	2 WWs 7.5' each Rocks extending from North WW	QC2
QC225	Jenner Twp	48	3.93	1	road		Η,	,		5	2.0	2.5		30.0	CMP HW 8' wide 5' high	pipe located at far west end HW	QC25
QC233	Abandonded railroad	1520	62.83	1	rail road					20	10.0	8.0		00.0	concrete msry cement HW 15' high	2 WWs 18' culvert is old and deterioating	QC33
QC237	Abandonded railroad	45	4.71	1	RR			,		3	2.0	3.0			RCP patchy stone HW 9' wide 4' high	Bottom foot of pipe burtied by stream sediment	QC37
QC241	Private	140	14.14	1	1 Drive Way		H,	-		2.5	4.0	4.5			CMP No HW, No SW, No WW	~15% blocked with wood debris	QC41
QC27	Quemahoning Twp	326	37.70	1	road					1	6.0	8.0		45.0	SP no HW or WW	looks okay	QC7
QC28	Quemahoning Twp	308	32.99	1	road			,		1.5	6.0	7.0		45.0	SP no HW or WW	tope end covered over by trees	QC8
QC3	Jerome/Conmeaugh Twp	109	14.14	1	road					1.5	4.0	4.5	1		BCCMP West WW 4.5' Pipe encased with stone	Spillway for lake is right in front of pipe	QC
QC30	Private Beckner Lane	246	11.68	2	road				1	3.0	4.0	3.5			2 SP North pipe not really used south pipe blocked 25% with debris		QC0
QC4	Private Beckrier Lane Penndot 601	88	16.49	1	road		H.		1	3.0	3.5	6.0	1	60.0	CMP cement HW 4 3/4 2 WW 7.5' each	1 ipe is clear, water runs on cement side 7.5 in nont of	QC
QC46	Penndot 601 Penn Dot Rt. 30	1042	16.49 54.98	1	road				+	12	7.0	10.0		0.0	solid concrete HW 10.5' W WW 12' E WW 10'	pipe looks okay	QC6
QC46 QC60	Penn Dot Rt. 30 Jenner Two	196	12.57		road				+	8	4.0 4.0	4.0		45.0		,	QC0
QC60 QC72		196 59	5.89		road				+	3	4.0 4.0	3.0		45.0	CMP encased in cement pipe HW -5' 2 WW 6' each	water runs along S WW before going in to pipe	QC2
	Jenner Twp			1				K .	1-	1			1		CMP a lot of grass and vegetation by pipe		
QC8	Conemaugh Twp Penn Dot Rt 30	307 2410	35.34 125.66	1	road			K	+	1 12	6.0 8.0	7.5 20.0			CMP Has rip rap SWs 9' each	W WWW TO E WWY ZZ Truns under rit. Oo (estimation,	QC QC2
QC82	Penn Dot Rt 30	2410	125.66	111	road			K		12	8.0	20.0	1	<u> </u>	Concrete msry WW 11' 2 WWs 5' Opening is half moon shaped	could not get under)	UU2

Watershed: Completed by: Checked by: Date(s): Stonycreek

Elliptical Culverts Calculation Sheet

SCR129

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

499

Penn Dot

65.97

road

msry = Stone Masonry Structure
CMP = Corrugated Metal Pipe
CPP = Corrugated Polyethylene Pipe T= Amount of fill
D= Diameter
HT = Height

(-)-	, , , , , , , , , , , , , , , , , , ,	g				,			_		W = Widt			BCCMP = Bituminous Coated Corrugated Metal Pipe		
						Оре Туре	ning Shape	e (√)		Measi	PW = Pie	er Wid	Ith (if app	licable)		A
Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?		Culvert Purpose	Culvert 0 C	Bridge			W (ft)	PW (ft)		material	NOTES	ID No Space
QC86	Lincoln Twp	99	11.00	1		road	x		2	3.5	4.0			CMP has blacktop over it	rocks around sides with vegetation	QC6
QC87	Private Camper's archery	128	18.85	1		road	x		0.5	4.0	6.0			CMP has loose rocks over site as HW	Rocks around edge, sides	QC7
QC90	Penn Dot 601	88	8.25	1		road	x		3.5	3.0	3.5			RCP encased in concrete concrete HW 7' Wide	HW 4' High large rocks on both sides of pipe	QC0
QC95	Lincoln Twp	663	63.22	1		road	x	:	2	7.0	11.5			CMP rocks both sides	bottom third of pipe is cut off	QC5
SC104	State Rt. 160	200	20.42	1		road	x		2.5	4.0	6.5			RCP		SC04
SC111	Paint Twp	1834	108.38	1		road	x		8	9.2	15.0		80.0	CMPboth WW 13' at 45 degrees	Pipe 5% full of concrete in bottom of pipe	SC11
SC124	Lost Turkey Trail	163	14.42	1		trail	x		4	2.7	6.8			CMP		SC24
SC126	Lost Turkey Trail	140	23.56	1		Trail road	x		0.1	4.0	7.5			CMP Top is very flat		SC26
SC14	State Rt. 56 (paint twp)	300	28.27	1		road	x		2.9	4.8	7.5		60.0	HW and WW		SC4
SC22	State Rt 56 (Ogle twp)	930	51.86	1		road	x		10	7.1	9.3		70.0	BCCMP		SC2
SC23	Gallitzin State Forset Ogle Twp	111	11.49	1		road	x		2.5	3.3	4.5		80.0	CMP		SC3
SC24	Gallitzin State Forset Ogle Twp	109	9.57	1		road	x		4	2.9	4.2			CMP front of pipe dented up, does not obstruct flow		SC4
SC25	Gallitzin State Forset Ogle Twp	103	8.66	1		road	x		4.5	2.9	3.8			CMP		SC5
SC26	Gallitzin State Forset Ogle Twp	44	6.38	1		road	x		1	2.5	3.3			CMP		SC6
SC36	Gallitzin State Forset Ogle Twp	473	45.95	1		road	x	:	2	6.5	9.0			wide pipe in bottom		SC6
SC39	State Rt 160 Paint twp	125	11.19	1		road	x		4	3.0	4.8		60.0	RCP with concrete HW 3' above pipe North WW 2.8' at 90 degrees		SC9
SC40	Paint twp	56	5.50	1		old walkway	x	:	3.5	2.0	3.5			both of fill		SC0
SC5	State PennDot	32	3.18	1	х	road	x		3	2.7	1.5			CMP 10% blocked by sedimentation		sc
SC53	Shade Twp	1384	65.97	2		road	x		2	7.0	12.0			North WW 10.5' at 45 degrees	HW AND WW constructed of corrugated metal (steel)	SC3
SC61	Railroad	636	43.98	1		RR	x		6	7.0	8.0			Both WW 10.5' at 90 degrees Concrete pipe and WW		SC1
SC66	Shade Twp	2175	194.62	1	х		x		2.2	8.4	29.5		110.0	concrete		SC6
SC74	Shade Twp	186	23.56	1		road	x	:	0.5	6.0	5.0		100.0	CMP entrance to pipe is oval shaped and opens to a circle d=6.5'		SC4
SC75	State Rt. 160	65	5.89	1		road	x	:	4	2.5	3.0			RCP		SC5
SC79	State Rt. 160	97	12.76	1		road	x		1.25	3.3	5.0			both WW 5.5' at 60 degrees RCP		SC9
SC96	Paint Twp	402	40.29	1		road	x	:	2	5.7	9.0		60.0	CMP east WW 11.5' at 45 degrees West WW 8' at 90 degrees	Pipe is in concrete HW 7' highx 9.5' wide	SC6
SCR1	Southmont Boro	138	9.42	1		Road	x	:	7.5	3.0	4.0			solid concrete HW 7' wide 5' hig 2WW 5'each	looks okay. Road not on map?	SCR
SCR2	Southmont Boro	90	4.71	1		Road	x		14.0	2.0	3.0			RCP encased in msng HW 4' high 7'wide	They buried bottom 1/3 of pipe	SCR
SCR22	Dale Quail Ave.	154	15.71	1		road	x		2.5	4.0	5.0			RCP msry HW 8' 2WW 15' each	brick encases the RCP WW breaking up some	SCR2
SCR25	Richland Twp	279	21.60	1		road	x	:	5	5.0	5.5			RCP HW msry 7.5' N SW 10' long	SW bottom 20% breaking up HW is not very sturdy	SCR5
SCR26	Richland Twp	140	14.14	1		road	x		2.5	4.0	4.5		45.0	CMP loose rock as fill	clear, okay	SCR6
SCR27	Richland Twp	308	25.53	1		road	x		3.5	6.5	5.0		60.0	CMP lots of loose rock as fill	looks good, some minor sticks in front	SCR7
SCR29	56 Penn Dot	2506	87.96	1		road	x		30	7.0	16.0			msry with cement over HW 9' high 2 WW 7'each	very high gradient stream	SCR9
SCR33	Richland Twp	133	17.28	1		road	x	:	1	4.0	5.5			CMP No HW, No SW, No WW	loose rocks as fill all around	SCR3
SCR34	Geistown	349	18.85	2		road	x		2	4.0	6.0	0.5		2 CMP loose rock fill	south pipe is junky, thus the North pipe was put in	SCR4
SCR35	Geistown	343	17.28	2		road	x		2.5	4.0	5.5	1.0		2 CMP	pipe	SCR5
SCR37	Geistown 756	2915	106.81	1		road	x		27	8.0	17.0		45.0	solid concrete, HW 10' N SW 15' S WW 10'	water hits WW, then goes under half moon culvert	SCR7
SCR4	Johnstown near McCort High School	1073	112.31	1		road	x	:	0.0	11.0	13.0		80.0	msry cement bottom HW 16.5' high msry SW ~40' each	All man made channel disappears from here	SCR
SCR103	CONEMAUGH TWP	354	43.20	1		road	x		1	5.0	11.0			BCCMP	Screened rip pad packed as sidewalls	SCR103
SCR106	Comemaugh Twp	41	8.25	1		road	x			3.0	3.5			RCP-Encased in concrete HW-4' high 7.5 wide	Swampy Area	SCR106
SCR108	Conemaugh Twp	2376	94.25	1		road	x		22	10.0	12.0			Concrete Msry NWW-10' SWW-12' high		SCR108
SCR113	Twp (Holsopple)	102	13.74	1		road	x		1	3.5	5.0			CMP-	Downstream side-bottom of pipe rusted away	SCR113
SCR123	Mining road Conemaugh Twp	119	8.25	1		road	x		7	3.0	3.5		45.0	CMP loose rock and dirt fill	okay	SCR123
SCR124	PennDot 403	149	8.25	1		road	x		12	3.0	3.5			Concrete msry HW-5' high 9' wide No WWs SWs	not blocked, 3 large trocks sitting in culvert	SCR124
SCR125	Paint Twp	67	12.37	1		road	x			3.5	4.5		30.0	concrete msry HW-7.5' wide 5' high	WSW-2.5'	SCR125
1			1		1		. —					1				1

7.0 12.0

CMP encased in cement HW-8.5 high

No fill above HW water running in

SCR129

Watershed: Stonycreek

Elliptical Culverts Calculation Sheet

Completed by: Checked by:

SR104

SR122

Somerset Twp

Somerset Twp

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

18.85

11.78

84

road

road

T= Amount of fill msry = Stone Masonry Structure D= Diameter CMP = Corrugated Metal Pipe HT = Height CPP = Corrugated Polyethylene Pipe

into pipe

CMP

W = Width BCCMP = Bituminous Coated Corrugated Metal Pipe PW = Pier Width (if applicable) Type Shape (✓) Measurements Owner or Address Capacity Nos. Part of T D HT W PW skew NOTES Map ID. Culvert of Obstruction (SQ. FT) Purpose (ft) (ft) (ft) angle ID No Space 190 4.5 5.0 CMP SCR131 SCR131 17.67 843 20 6.5 7.0 Concrete 2 WWs-10' each SCR133 SCR133 Penndot 403 35.74 road AMD 69 11.00 0.25 4.0 3.5 SP Flowing well SCR134 Quemahoning Twp 6.0 15.0 SCR138 SCR138 TWP Hooversville 1119 70.69 road Msry N WW 25' wide S SW 8' wide 102 13.74 1 3.5 5.0 SCR141 SCR141 Hooversville road CMP encased in stone msry bottom foot filled in with sediment 6.0 Quemahoning Twp 286 30.63 1.5 6.5 SCR147 231 30.24 road 0.5 5.5 7.0 RCP-No HWs WWs SCR148 SCR148 Quemahoning Twp SCR149 118 8.25 1 3.0 3.5 SCR149 Quemahoning Twp road CMP-2 pipes same size one pipe is old and rusted out backing up 258 31.42 5.0 8.0 CMP no HW no SW no WW doesn't block flow SCR151 SCR151 Run Rd road 6.0 21.0 SCR156 Shade 698 98.96 45.0 Msry- HW-10' High/50' Wide AMD SCR156 5.0 45 114 SCR157 SCR157 Privato 17 67 road SP-Flowing Good Pipe surrounded by rocks 864 25 7.0 6.0 Channelizers?? Under Culvert SCR164 SCR164 PennDot 219 Just N of Stonycreek 32.99 solid concrete HW 9' S WW9' W WW 11' 7.0 6.0 SCR169 Stoystown 251 32.99 road 0 cement/msry HW 12' high 20' wide No WW no SW cement around opening is breaking up SCR169 65 1.5 3.0 3.5 SCR180 SCR180 Quemahoning Twp 8.25 road BCP No HW. No WW. No SW looks okay SCR188 Shade Twp 1824 127.23 road 9.0 18.0 CMP encased in concrete HW 10.5 ' high flowing well SCR188 Private 103 8.25 5 3.0 3.5 CMP SCR189 SCR189 road backing up SCR194 Penn Dot 30 1430 47.12 rb 30 35 5.0 12.0 30.0 Concrete HW 7' E WW 11' W WW 8' SCR194 goes under 1.5 4.0 5.0 SCR195 SCR195 Shade Twp 132 15.71 road RCP solid 496 2.5 6.5 9.0 Pipe blocked 15% by wood debris SCR199 45 95 SP loose stone/wood HW 7' High 20' Wide SCR199 Stonycreek road 1.5 107 4.0 4.0 SCR211 Conemaugh Twp 12.57 road 4.0 CMP No water flowing in SCR211 53 0 3.0 4.5 SCR227 Penn Dot 403 10.60 road CMP-Encased in concrete 2 WWss 4' each 1/4 of pipe filled with stream sediment SCR227 0.5 3.5 5.5 SCR39 SCR39 Geistown 98 15.12 road CMP good condition bottom half foot filled in with stream gravel 5.5 SCR55 Private 198 25.92 Drive way 0.5 6.0 CMP with rocks around ft stone SWs 10 each SCR55 SCR56 Private 391 40.84 Drive way 1.5 6.5 8.0 SP-2 low angle WWs 10' each SCR56 1 4 0 SCR57 SCR57 Private n 0.00 Drive way SP-encased in cement Stone HW-5' 2 Stone WWs-8' each Blocked 15.5 with wood debris 112 5.89 road 2.5 3.0 2.5 2 CMP-both pipes same size water runs in both equally SCR58 SCR58 Conemaugh Twp 100 0.5 4.5 4.0 CMP-Patch Stone SWs water flowing well SCR62 SCR62 Private 14.14 road 3.0 5.0 SCR63 84 11.78 road CMP SCR63 CR65 84 11.78 3.0 5.0 CMP-stones around pipe SCR65 84 11.78 3.0 5.0 SCR66 SCR66 Pricate CMP-Patchy stone SWs 8' each road 4 0 4.5 SCR72 Conemaugh Twp 217 14.14 road 2 CMPs some size Patchy WW-8' South SCR72 SCR76 Conemaugh Twp 304 31.42 road 2 5.0 8.0 CMP-Encased in stone E-WW-16' Wide WW made out of msry-water flowing well SCR76 208 36.13 road 4.0 11.5 45.0 Concrete NWW-13' wide SW-8' S WW-18' Water hits N WW-before going under culvert SCR77 SCR77 PENNDOT 403 1.5 4.0 5.0 SCR85 Conemaugh Twp 132 15.71 road Sp-Channel is swampy SCR85 CR86 Geistown Ohio Street 1728 65.97 road 25 7.0 12.0 solid concrete HW10' 2WW 12' each half moon shaped culvert filled hard to measure SCR86 5 3.0 4.0 RR thies and big rocks around pipe serve no purpose SCR87 SCR87 Richland Two Belmont/Moxham 118 9.42 15.0 CMP No HW, No SW, No WW road 2 SCR88 PENNDOT 403/Belmont 39 4 71 road 2.0 3.0 RCP W WW msry 4' debris all around pipe, looks like it has overflowed SCR88 SCR90 Eisenhower Blvd Penndot 166 15.71 road 3 4.0 5.0 CMP encased in cement 2 WW 8' each HW 5' half moon culvert stream channel is grassy SCR90 1 8 7.0 10.0 15.0 SCR94 SCR94 Eisenhower Blvd Penndot 901 54.98 road CMP encased in cement HW 8' 2 WW 8'each Bottom 1' of pipe filled with cement CR97 Penndot 453 21.60 road 15 5.5 5.0 BCCMP-encased in cement HW-6.5' high W WW-7' E WW-9' Water Flow well SCR97 9 9.0 13.0 SCR98 SCR98 Penndot 219 exit Davidsville 1594 91.89 road concrete- HW-11.5' high 2 WW's -12' each Half Moon Culvert 1.25 5.0 4.5 151 17 67 Private road approx 30' long CMP ... Somerset Twp 153 17.67 1.3 5.0 4.5 60.0 SR02 151 1.2 4.0 6.0

> 3.0 5.0

SR04

SR22

Box Culvert / Box Bridge Capacity Calculation Sheet
Watershed: Stonycreek
Completed by:
Checked by:
Date(s): NOTE: Different parameters assigned to CMP and it

NOTE: Different parameters assigned to CMP and RCP culverts in capacity column

Elliptical Culverts Calculation Sheet

T= Amount of fill
D= Diameter
HT = Height
W = Width msry = Stone Masonry Structure
CMP = Corrugated Metal Pipe
CPP = Corrugated Polyethylene Pipe
BCCMP = Bituminous Coated Corrugated Metal Pipe

						Ope	ening						PW = F						
						Туре		Shape	(✓)			Measu	rement	s					
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert		Culvert	Bridge		D	HT	W	PW	skew		NOTES		
#	of Obstruction	(CFS)	(SQ. FT)	of?	Bridge?	Purpose		0 0		(ft)	(ft)	(ft)	(ft)	(ft)	angle	material		ID No Space	
SR134	Quemahoning Twp	94	11.78	1		road		x		1.5		3.0	5.0		75.0	CMP		SR34	
SR139	Lincoln Somerset Twp	455	42.41	1		road		x		2.5		6.0	9.0			CMP		SR39	
SR140	Somerset Twp	399	39.47	1				х		1.75	1.5	6.0	8.0			CMP/CMP smooth inside		SR40	Duplicated
SR185	Coal Company (PBS)	1003	22.58	2		road		x		18		5.0	5.8			SP		SR85	
SR190	Stonycreek Twp	563	51.95	1		road		x		2.5		6.3	10.5		75.0	S WW 5' at 80 degrees		SR90	
SR192	State Rt. 30	1192	90.12	1		road		x		4		8.5	13.5		100.0	East WW 9.5' at70 degrees		SR92	
SR235	Berlin Boro	62	4.71	2		road		x		1		2.0	3.0			Both CMP		SR35	1
SR99	Someset Twp	142	18.85	1		road		x		0.3		6.0	4.0		70.0	CMP for 1st 5 feet thn rest is SP		SR9	

188

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Stonycreek Completed by: Checked by: Date(s):

Arch Culverts Calculation Sheet

msry = Stone Masonry Structure
CMP = Corrugated Metal Pipe
CPP = Corrugated Polyethylene Pipe
BCCMP = Bituminous Coated Corrugated Metal Pipe T= Amount of fill
D= Diameter
HT = Height
W = Width
PW = Pier Width (i

							Opening						er Width ((if applica	ible)		
						Туре	Shape	(✓)			Measu	rements					
Map ID.	Owner or Address	Capacity	Area	Nos.	Part of	Culvert	Culvert	Bridge	Т	D	HT	W	PW	skew		NOTES	
#	of Obstruction	(CFS)	(SQ. FT)	of?	Bridge?	Purpose			(ft)	(ft)	(ft)	(ft)	(ft)	angle	material		ID No Space
BC1	Penn Dot Mill under 271	902	46.67	1		road way		x	12		7.0	10.0			msry WW ~12' each HW to road (12')	high water	BC
BC48	Conemaugh Twp	1821	232.50	1	х	road		x			7.5	46.5			MSRY 2 WW/1 HW 12' high EWW 12' WW WW 12'	built in 1917 still in good shape rocks on sides	BC8
PC35	Richanland Twp	53782	1632.00	1				x	30		36.0	68.0		110.0	North WW 35' at 45 degrees South WW 38' at 45 degrees		PC5
PC42	Windber Twp	848	64.00	1				x	4.8		6.0	16.0			made from concrete		PC2
PC77	Private	472	61.33	1	х			x	1		4.0	23.0			wooden arch bridge walkway		PC7
QC138	Private	#DIV/0!	0.00	4		road		х	1		4.0	12.0			4 RCPs have loose rocks - Arch bridge now installed	water flowing in well	QC38
QC172	Lincoln Twp	1381	170.67	1	х			x			8.0	32.0		45.0	Concrete HW 44' Wide 12.5' high	Bridge is not old, in good shape	QC72
QC26	Quemahoning Twp	964	132.17	1	х			x			6.5	30.5		45.0	Solid cement W HW 11.5' E WW 10.5'	neither HW nor WW look like they are needed	QC6
QC41	Jenner Twp	1037	148.00	1	х			x			6.0	37.0		30.0	msry HW 11' 2 WW 12' each	WW at a low angle HW showing wear	QC1
QC52	Jenner Twp	3147	242.00	1	х			x	3		11.0	33.0			msry Hw 15' N WW buried, S WW 12'	solid	QC2
QC96	Lincoln Twp (Quecreek)	1956	228.00	1	х			x			9.0	38.0			msry HW 12.5' S SW 40'/5' high	S WW 10' Wide N WW 13' Wide Built 1917	QC6
															msry HW 9' Low angle WWs 2 WW 11' each Bridge built in		
QC99	Lincoln Twp	767	120.00	1	x			x			5.0	36.0			1914		QC9
															South WW 12' at 75 degrees W WW 23' at 45 degrees		
SC107	Shade Twp	2633	191.49	1	x			x	4.5		8.6	33.4			Concrete WW and HW		SC07
															North WW 32' at 90 degrees South WW 32' at 60 degrees		
SC122	Railroad Norfold Southern	16331	661.33	1	x			x	13.5		31.0	32.0		110.0			SC22
SC135	Railroad Company	3814	144.67	1	х			x	22		14.0	15.5			Both WW 18' at 90 degrees (stone construction)		SC35
SC94	State Rt. 160 Central City	2809	194.07	1	х			x	5.4		8.2	35.5			Both WW 9.2' at 60 degrees HW and WW Concrete		SC4
SCR137	TWP Hooversville Borough	532	76.00	1	х			x			6.0	19.0			concrete HW 13' high		SCR137
SCR173	Quemahoning Twp	810	126.67	1	х			x			5.0	38.0			msry HW 65' wide 14' high	solid	SCR173
SCR177	Quemahoning TWwp	1381	170.67	1	х			x			8.0	32.0			msry HW 12' high 40' wide 2 low angle WW	N WW 18' S WW 9' Road is in horrible shape	SCR177
																New concrete on top of msry water flowing well, nice stream bridge looks	
SCR191	Shade Twp	1802	210.00	1	x			x			9.0	35.0			14' High	good	SCR191
SCR52	Conemaugh Twp	431	53.33	1		road		x			8.0	10.0			CMP-encased in Cement	East SW-8'	SCR52
SCR82	PENNDOT 403	569	78.00	1		road		x			6.5	18.0		15.0	Concrete WWs8' high NWW-12' SWW-14'	Runs along SWW before going under bridge, Half moon culvert	SCR82
															North WW 21' at 10 degrees South WW 12' at 20 feet HW		
SR148	Quemahoning Twp	2388	176.00	1	x	1		x	4.5		8.0	33.0		1	and WW msry		SR48
SR156	Quemahoning Twp	2385	156.00	1	х			x	7		6.0	39.0			HW msry		SR56
SR195	PA Turnpike 70/76	6125	224.00	1	X			x	24		14.0	24.0			Both WW 20.5' at 45 degrees HW and WW concrete		SR95
SR196	PA Turnpike 70/76	3097	164.27	1	Х			x	10		11.2	22.0			Both WW 14.3' at 60 degrees HW and WW concrete		SR96
															West WW 25' at 30 degrees East WW 20' at 90 degrees		
SR43	State owned PA Turnpike	11358	277.20	2	x	1		x	12		12.6	33.0	9.0	1	HW and WW are concrete		SR3
SR90	Somerset Twp	568	52.00	1	х			x	2.5		6.5	12.0		70.0	Both WW 11.5 at 30 degrees HW and WW concrete		SR0

27

Box Culvert / Box Bridge Capacity Calculation Sheet Watershed: Nesham Completed by: Checked by: Date(s): Neshaminy Creek

No Data Culverts Calculation Sheet

T= Amount of fill D= Diameter HT = Height W = Width msry = Stone Masonry Structure
CMP = Corrugated Metal Pipe
CPP = Corrugated Polyethylene Pipe
BCCMP = Bituminous Coated Corrugated Metal Pipe

			-		Opening	9		PW = Pier Width (if applicable)					Width (if appl	licable)			
			_	Type		Shape (✓)				Measur	rements					
									T	D	HT	W	PW				
#	of Obstruction	(CFS)	of?	Bridge? Purpose	0	0)		(ft)	(ft)	(ft)	(ft)	(ft)	angle	material		ID No Space
BC115	Private		2	road					4.00	4.0	·			5.0	2 CMP pipes pinched and squeezed down	See Drawing (over)	BC15
BC135	Jenner Twp		1	road					2.5	2.5	Γ,				CMP	upstream pipe is old and rusty, downstream pipe looks better	BC35
BC50	Conemaugh Twp								2		4.5	5.0			BCCMP rock/cement pipe has rocks surrounding it HW 12' W	Long south SW 50' made of stone	BC0
QC101	Lincoln Twp		1	road					2.5		4.0	4.5			CPP stream channel grassy	water runs out of swampy ditch	QC01
QC11	Conemaugh Twp		1	road					2		3.0	3.5			RCP loose rocks around pipe	Concrete Turns in to CPP under road	QC1
QC17	Conemaugh Twp			x road							1.0	18.0			MSRY HW 3' 2 WWs 5' each	Water flooded from nearby pond	QC7
QC206	Lincoln Twp		1	road					3	2.0	·				CMP		QC06
QC9	Private		1	road							5.0	6.0			SP water going in well	Cement slab laying flat on top of pipe for headwall	QC
SC10	Ogle Twp			road					1.5	2.5				120.0	CPP smooth inside		SC0
SC116	Railroad		6	×					6.5		52.0				See Back # 116		SC16
SC37	Paint Twp		2	road					1.7	1.8				120.0	RCP with concrete HW 1.7' above top of pipe		SC7
SC38	Paint twp		2	old road					2	1.8	·				RCP on an old road grade		SC8
SC55	Shade Twp		2						2.5	3.5	·				RCP	all water is in middle pipe	SC5
											Γ,				South www zo it at oo degrees Worth www zo it at oo degrees riw		
SC6	State (Penn Dot)								4		8.0	29.6			and WW concrete		SC
SC7	Private owned								1		3.0	20.0			wooden bridge with wood supports and 2x4 decking		SC
SC81	Shade Twp			road					1		3.0	2.8		120.0	SP		SC1
SC9	Ogle Twp			×					1.7		4.0	27.5		70.0	east WW 14' at 30 degrees West WW 10' at 90 degrees	HW and WW concrete steel support beams asphalt/wood decking	SC
											1 '						
SC98	Railroad			×					10.7		15.0	12.0			and WW constitutional of slope		SC8
SCR115	403 Benson		2	x road							13.0	185.0	3.5		cement bridge N SW 20' S WW 20'	looks good	SCR115
SCR43	Conemaugh Twp Recreation Park			X							10.0	38.0			Concrete-2 WWs HW 13' high	North WW-8' SWW16' Kaufman Bridge built in 1988	SCR43
SCR46	Conemaugh Twp			x							13.0	52.0			Msry-no SW WWs	Old -made of I beams wood concrete	SCR46
SCR53	Private						1				5.0	9.0			Concrete NWW-15' SWW-10'		SCR53
SCR91	Richland Twp		1	road			1		0		10.0	9.0		45.0	CMP encased in cement HW 11' E WW 13' W WW 100' +	water runs along W WW for 100+ then goes under	SCR91
SR166	Stonycreek Twp			road							<u> </u>			60.0	Sec #166 on back SP		SR166
SR172	Private			×					1.5		5.0	25.0			HW msry		SR172

25

D. DATA COLLECTION FORMS (FORMS A, C – J, O)

WATERSHED					PROBL							
		- 1	ORM CO	t in the con-	1 22		Bef	ore F	illing (Dut Fo	orm,	
Name: STONYCHT	("b"	Nar	ne.	U 12 102	11816 112		See	e Instr	uction	ıs On	Back	
Municipality: 2/10111000	Pare	Tele	enhone:	- <u>19. J. J. S.</u> - 20. 19. 4	<u> </u>	1417	 _					
Name: StoryCoor Municipality: 2/10190000 County;		Date	9;		Valley Valley		- For	Coun	ity Use	э:		
MAP NO. *	A-	A-	IA-									
Types of Storm Water Problems		1//	17.	Α-	Α-	A-	Α-	Α-	A-	Α-	A-	Δ
Flooding												7
Accelerated Erosion	7	ion	J. S. F	: : /		····		<u> </u>				T
Sedimentation	7				1 . 1							1
Landslide	7						ļ	<u> </u>				十
Groundwater	7											†
Water Pollution	+							<u> </u>				†
Other (Explain)	7						·	<u> </u>				†
Explanation Line No. (On Back)	7											T
Cause (s)		 	1 1		-	,	···					T
Storm Water Volume	 	 -	 		 							
Storm Water Velocity	 				L							
Storm Water Direction	 		 									<u> </u>
Water Obstruction	 											
Other (Explain)	 											
xplanation Line No. (On Back)	 							1				
requency	 									$\neg \neg$		
ear Most Recent Occurred	 											
ear First Known Occurred												
egularity											_	
fore Than 1 Year											-	
ess Than 1 Year										_		
nly During Agnes							$\neg \top$					
uration (if Applicable)				L	[-+		····
ess Than 1 Day												
Day + (Enter Days)												
operty Damage						1		_				
ss of Life/Vital Services												
vate									- +-		-+-	
re Than One Owner							1					
pes of Properties												
mber of Properties								+-				
Dlic (List Types)		_					_		-+			
							_					
danation Line No. (On Back)							+-		+-	+-		
gested												
		$\Box\Box$					+					
anation Line No. (On Back)			1				+		·			_
nally Proposed anation Line No. (On Back)											ļ	- 1

\triangle				FORM C - EXIS	TING FLOOD	CONTROL PR	OJECT	SHEET	OF
WATERSHE Name: Municipality: County:	STONYCREEK Westmony Boro Cambria	Name:	MPLETED H.F. L.E. Rick Be 8-10-	uz Co CEHM 9.9346			vation / Widening	DF FLOOD CONTROL PROJECTS Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County UMap ID No.	Jse: Type of Flood Control Project	et	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and Ph	one
C-	Not APPLICABLE		The state of the s						
C-									
C-									
C-									
C-									
C-									
C-									

				FORM D - F	PROPOSE	FLOOD C	ONTROL P	ROJECT			SHEET OF
WATERSHE	D	FORM CO	MPLETED	y Co.			TYPICAL	TYPES OF	FLOOD CC	NTROL PR	ROJECTS
Name: Municipality: County:	STORYCREEK MESTHANT BORD CAMBRIA	Name:	RICK EI	26 43 4 6 2 - 43 4 6			xcavation / Realignment ap			Levee Gabions Pipe Chan	Dams Floodwall nnel Concrete Lining
For County (Jse:	····•					TOT				
Map ID No.	Type of Flood Control Project	Stu YES Prelim.	dy Phase B S Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Desigr Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Name, Address, and Phone
D-	THERE ARE NO PROPOSED FLOOD CONTROL PROVECTS.										
D-											
D-											
D-					-						
D-											
D-											
D-											

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond			FORM E - EXISTING STORM WATER C	CONTROL FACILITIES	SHEET OF)F
WATERSHE Name: Municipality: County: For County U	STONYCREEL. WESTMONT BORD CAMBRIA	FORM COMP Name: Telephone: Date:	PLETED BY H.F. LEHZ CO. RICK BREWM 814-269-9346 8-10-2005	Definition of Storm Water Control Facility A natural / man-made device or structure specificall utilized to reduce the rate and / or volume of storm from a site or sites.		
ì						
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments	
E- 1	UNDERGEOUND DETENTION	2002	FERMINAL SCHOOL DAST	100 DARTHOTH AVE	De. WILLIAM GROJE - SUPER.	
E- \		<u> </u>		814-525-6724		
E- 2	DETENTION FOLLD	1982	WESTERNAM PROPER	1000 LOYERUL STREET	ROBERT BATEY - DIE, FUBLIC	
				형목 시엄니는 학국자들	1/0000]
E-						
E-						1
E- E-						
?						
F.						
<u>-</u>			<u> </u>			1
E.						· · · · · · · · · · · · · · · · · · ·
E- E- E- 3E-						1
} } _F .						
įE-	<u> </u>	<u> </u>				1
E-						
1						
E						
<u>E-</u>						
E-		1				
E					· · · · · · · · · · · · · · · · · · ·	
E-						-
E		1				
<u>}</u> E		1				4
	PES OF STORM WATER CONTROL FACIL Retention Basin d or Wetland Pondling	Roof-Top Stor Semi-Pervious		und Tank)		
						⁻ ank)

\bigcirc					FORM G -	EXISTING S	STORM WA	TER COLLI	ECTION SYST	TEMS		SHEETOF_	1			
WATERSHED FORM COMPLETED BY					INSTRUCTIONS											
					Diagram each system on the appropriate map. Establish map points to show changes in system elements,											
					pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific											
					informatio	n on constri	uction is ave	ilahla Hea a	enarate for	m for each	system. Identify the points v	vithin a				
			Telephone: <u>영(석 - 26</u> 역 - 역공식 등			information on construction is available. Use a separate form for each system. Identify the points within a										
County:	CARRE	r ³	Date: <u>∞ - 10 - 2 ○ 0 ≤ </u>			system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher.										
						For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse. Measurements * Design Name of Final										
Map I.D.		Syst	em's Elements (x)							Year	Design Data	Contact Person	Ownership and			
	No.				Pipe	Channel / Swale			Material							
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth	l	Constr.	Available	Name and Phone	Maintenance Responsibility			
G-	G-	4-5				1										
·		DRAWIN	65 NUBIC	15 - 183 a	E 8 - E											
G-	G-	2				İ		i								
<u> </u>	19	V/LC169	wyn Boar		518 1 1	+		<u> </u>		- 	 					
_	G-				a e f te		1				1					
G-	<u>G</u> -	CONCR	FROM 1136	12 500	74 : 4 0	+	 	 	 	 	 					
_	1_															
G-	G-	}					<u> </u>	<u> </u>								
			4.1.5 A2	4 - F 80 (A)	0 14 14.	1				1						
G-	G-					<u> </u>	<u> </u>	<u> </u>			<u></u>					
										1]					
G-	G-							ĺ								
	 	•														
G-	G-					1	1			1						
<u> </u>	<u> </u>	÷				 		<u> </u>		 		*****				
_	G-]						
G-	<u> </u>	-					ļ		<u></u>		 					
_							İ		1	1						
G-	G-					<u> </u>	ļ <u>.</u>	ļ								
						1										
G-	G-						<u> </u>				ļ					
							i			i						
G-	G-					ŀ										
							T .									
G-	G-									1						
							I	†		1						
G-	G-	İ								İ						
<u> </u>	<u> </u>					 					 		 	·····		
_		1							•	1						
G-	G-					<u> </u>				 	 					
		-	1				4									
G-	G-]								

^{*} See measurement key on reverse side.

WATERSHED FORM COMPLETED BY						INSTRUCTIONS									
Name: <u>Стоычсе</u> Municipa <u>lity: Westr</u> County: <u>C գտ</u> նը		7 Engl 4 T	Name: Telephone:	H.F. LENT CO. RICK BREHM 814-269-9246 8-10-2005		On the map for proposed storm water collection systems, diagram each proposed system, indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed, new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23.). Be sure to show the point where proposed additions connect into existing systems, using the map									
						point number from the existing system form and map. Se			e Sample Diagrams and	nd Form on Reverse.			Design	Contact Person	Name of Final
Map I.D.		Syst	em's Elemer	ns (x)	D:	Measurements * Open Channel / Swale		Material	Map I.D. Nos.**	Const. Dates		Data	Name and	Ownership and	
rom	No.	Pipe	Casa Channal	Swale	Pipe D	TW	B	Depth	Material	Form A	Start		Avail.	Phone	Maintenance Responsibilit
OH	То	Pipe	Open Channel	Swale	U	1 1 1 1 1 1		Depart		1 0111171	101611				
	H-	THEFE	ARE NO												
		🕇 l Kancal	b 5796.6		·····										
	H-	WATEC.	CONSECT.	Ori											
		342761	45.												
····	H-	4			 	<u> </u>				<u> </u>	ļ				
	H-	+		+	 					 					
	H-			ı İ											
	11-	 								<u> </u>					
	H-														
	H-				,					ļ					
	H-				····	<u> </u>				ļ				w	
	ы														
	H-					<u> </u>	<u> </u>			 					
	H-]							
	··				• • • • • • • • • • • • • • • • • • • •										
	H-													<u></u>	
	H					ļ				<u> </u>					
]			
	H									 					
	H-											-			
	1 1"					<u> </u>									
	H-		İ	l											

Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

		FORM I - PRESENT	& PROJECTED	DEVELOPMENT IN THE FLO	OOD HAZARD AREA	SHEET OF				
Municipa	STONMERGER STONMERGER LINESTMONT BORD CAMBRIA	Name:	ED BY H.F. LEOF Co. Rick Beehn 814-269-9- 8410-2005	2 N es	DEFINITION FLOOD HAZARD AREA: A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS SUSCEPTABLE TO BEING INUNDATED BY THE 100-YEAR FLOOD.					
For Cour Map ID No.	ty Use:	DPMENT	Year Built	Contact Perso		Comments				
1 -	HOT APPLICABLE									
-										
l -										
- -										
-										
I -	MARK AND AND AND AND AND AND AND AND AND AND									
1 -										
I -										

WATERSHED				FO	RM C	OMPL	ETEL	D BY	rak di Tana di Inggaya			
Name: Improvement												
<u> </u>	: -			Nam	ie: phone ·	4.(<u>. / `</u>		1.76.1	1.7.	. 1. 6
] ele	phone	:	1. 5	e - 11%	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1			
County: <u>CANDER</u>		****		Date	:	<u> </u>	- (0) -	Commence Commence	÷ ./	····	··········	
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	IJ-
Types of Water Quality Problems					<u> </u>	_1	 	- -	15-	+3-	- 3 -	13-
High Community Tolerence		1		1								
High Temperature	Non	fs. v	1131		A 27							
High Turbidity	l l											
Hydrocarbon Pollution			15 m							1		
Low Community Diversity	FO.	5 Q	er est	e- ya 11	,							-
Low Dissolved Oxygen												
.ow pH												
Nutrient Enrichment										1		
Poor Habitat					1				1			
Other/Explanation Line No.												
otential Cause(s)	<u> </u>		 			 -	 	╂	ļ	 	 	
griculture			 		<u> </u>	├	 	╂	-		<u> </u>	↓
Construction Site								1				[
rosion	1 1					1		1				
ake Discharge								1				
TP Outfall								1				
ther/Explanation Line No.] [· .							
requency								<u> </u>				
ear Most Recent Occurence	 											
ear First Known Occurence			- 1									
ource of Information	 											
WA Streamwatch	 											
ounty Water Quality Study				1		1		- 1				
iveby				l		ſ		- 1				
CCD Complaint Investigation				1	1					- 1		
			- 1	1	1		- 1	- 1				
her/Explanation Line No.				1	1			İ				
······································	EXPLA	VATIC	N LINE	S								
				- 		*****						
		····	· · · · · · · · · · · · · · · · · · ·									
		******					 ,			·		
				·····				· · · · · · · · · · · · · · · · · · ·				
					· · · · · · · · · · · · · · · · · · ·							
												

UPPER YODER TOWNSHIP SUPERVISORS

Cambria County 302 Elim Street Johnstown, PA 15905 (814) 255-5243 Fax (814) 255-1805

RECEIVE

JUN 23 2003

Mr. Robb Piper, Director Cambria County Conservation District 401 Candlelight Drive Suite 221 Ebensburg, PA 15931

CASSANTATE OF STREET

Subject:

Stonycreek River Act 167 Stormwater

Management Plan
Phase I-Scope of Study

Dear Robb:

Attached, please find one copy of Form A – Stormwater Problem Areas and one "marked-up" copy of Sheet No. UYT-ZM-1, Zoning Map. This information is submitted for your use in completing the subject project. Upper Yoder Township could provide the attached map in digital form along with Township wide aerial mapping in digital form.

Please contact this office if you have any questions or require additional clarification or information to complete your project. My email address is: kmesko@charter.net

Sincerely,

UPPER YODER TOWNSHIP

Hunete a Melo

Kenneth A. Mesko, P.E.

Township Engineer

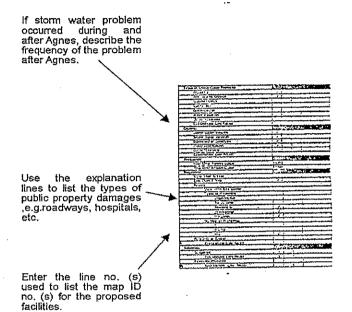
[CoP	Name	e:	Koni	n est		See	Instru	ction							
<u>Cor</u>	Teler Date:	hone:	8147	FORM COMPLETED BY Before Filling Out Form, See Instructions On Back Name: Ven Melke Telephone: 814-355-5243 For County Use: Date: 6-78-03											
	Dute.	111		18-1	>&4 <u>3</u> ઉ	For County Use:									
	1 3		<u></u>			1									
\- I	A-2	A-3	A- i-	A-5	TA-60	A-7	A-8	ĪA-	IA-	A-	Α-	TA-	Α-	A-	IA-
	1			· ·	-	1					 	 	ĺ.	 	-
V	/	/			1		T		 		†	·	 	1	1
					1				1		1		1		1
··							 	 	1						
	1	i	<u> </u>		<u> </u>			1	1			 	 	+	┪
	1						<u> </u>	 	 		†	\vdash	1	 	
***************************************	1			 		1			 	1	†	┪		+	-
			+	 		—		\vdash	 	 	 	 	+-		+
			 			 		├──	 	 	 	 	┼	-	+
				 	 -	 	<u> </u>				 	 	 	╁	
			 		1	 					╂	-	 	+	
	•			1		-		 		 		┞	┼	+	-
				1	 	 	<u> </u>			ļ		<u> </u>		╄	
<u>~</u>	-	-		- imme		 	<u> </u>		 	ļ		ļ	ļ	-	
	 	 		 				ļ	-	ļ	ļ			-	<u> </u>
	<u> </u>	<u> </u>	 	├─	 	├			<u> </u>		<u> </u>			—	
		<u> </u>	 	-	<u> </u>					ļ	ļ			<u> </u>	ļ
·	<u> </u>				<u> </u>										<u> </u>
			ļ	<u> </u>	ļ	ļ				ļ	L		ļ		ļ
			<u> </u>		<u> </u>							L	<u> </u>	ļ	
					<u></u>	<u> </u>		<u></u>	11.0						
	ļ		<u> </u>							<u></u>			L	<u> </u>	
<u> </u>		·//	<u> </u>			<u> </u>									
			<u> </u>										<u> </u>		
					- 2										
V		-/-			$\sqrt{}$	V									
		-												٠, -	
											-				
/	V	~	レ	1,000	/	V						•			
														<u> </u>	
							<u>-</u>								
									\dashv						

<u> </u>	or for	lintir			oniliti d				1	i	1				<u> </u>

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table: "-

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

EXPLANATION LINES (continued)

Terry Ostrowski

From: Robb Piper [piper@co.cambria.pa.us]

Sent: Monday, July 07, 2003 10:20 AM

To: Terry Ostrowski

Subject: Re: Berlin Boro - Stonycreek

Just got a call from Stoystown and they have no problems, please count them in the response tally for the scope of study

---- Original Message -----From: Terry Ostrowski

To: Robb Piper (piper@co.cambria.pa.us)
Sent: Thursday, June 26, 2003 2:47 PM
Subject: Berlin Boro - Stonycreek

Subject: Berlin Bolo - Stonycree

Robb;

FYI.

Kerry Claycomb from Berlin Boro, Somerset Co. contact me and will be sending their problem area information directly to our office.

Terry

WATERSHED		1												
		FOF	RM CC	MPLE	TED	BY	Befo	ore Fil	ling C	out Fo	rm,			
Name: Greg Walker Municipality: Spanyweck County: Somerset	e or	Name	ə: (greg	Wall	ce/	See	Instru	uction	s On	Back			
Municipality: Stangereck	TUP	Telep	hone:	78	14-210	7-3212	For	Coun	v Use					
County: <u>Somerset</u>		Date:		Avsy	st 19	2005		For County Use:						
MAP NO. *	A- <i>k</i>	A- 2	A- 3	A-	A-	A-	A-	A-	A-	A-	Α-	A-		
Types of Storm Water Problems			<u> </u>											
Flooding	· ·	<u>ا</u> ا	-							T				
Accelerated Erosion												1		
Sedimentation	سيسيرا	1 2	<u></u>			T			1			T		
Landslide								T		1				
Groundwater									1		<u> </u>	1		
Water Pollution								1	1			 		
Other (Explain)								1	 	†		†		
Explanation Line No. (On Back)	È	L	<u></u>		T		T	1	†	†	 	†		
Cause (s)					1		1	 	·	-	1	 		
Storm Water Volume					†	1	<u> </u>	 	 	·	_	 		
Storm Water Velocity					<u> </u>	1		 	 	 	╁	 		
Storm Water Direction					1	-	 	†	 	 	╁┈─	 		
Water Obstruction	(,		<i>i</i>		 	 	<u></u>	 	 	 	╁━┉	 		
Other (Explain)		1			 	 		 	 	 	┼	 		
Explanation Line No. (On Back)		1		***************************************	 	 		 		 	 	 		
requency		 			 			├	 -	 	┼	-		
ear Most Recent Occurred								 		 	 	 		
ear First Known Occurred		 			ļ			 			╂	 		
Regularity	····	1			 	İ				 	 	 		
More Than 1 Year			<u></u>		<u> </u>									
ess Than 1 Year					 	-	<u></u>				 	 		
Only During Agnes		 		·	 						<u> </u>			
Puration (If Applicable)		 			 						ļ	ļ		
ess Than 1 Day		┠━━┼		······································							ļ	ļ		
Day + (Enter Days)	5	2	2		<u> </u>							<u> </u>		
roperty Damage		<u>~</u>										<u> </u>		
oss of Life/Vital Services														
rivate														
ore Than One Owner														
ypes of Properties								—						
umber of Properties														
ublic (List Types)	-													
xplanation Line No. (On Back)									ļ					
olutions														
uggested														
xplanation Line No. (On Back)														
ormally Proposed											I]		
planation Line No. (On Back) Include Map ID No. if found o										I				

Swamp Hollow Road TR-509. This road is located at the headwaters of the Stonycreek river. This road experiences constant flooding in the spring of the year. Water Swells to a depth of 12 inchs on approximately one tenth of a mile of this roadway. Beavers Dams sediment and thick growth seem to have completely clossed the main streambed. Average times this road floods is approximately 12 times per year. This continuously wish road material such as growel from the road bed and causes sedimentation in the streambed.

A-2 Balteer Bridge Road - TR-539. A portion of this road has flooding during more heavy roinstorms caused by beaver dams that backup the drainage of water bunoff. The dams cause backups of sedimentation and causes heavy vegitation growth in the streambed.

A-3 Piney Run Road TR-726 A portion of this road has flooding during heavy rainstorms caused by beaver dams. This area is upstream from the Baltzer Bridge Road. Heavy vegitation growth is also in the streambed

AUG 9. A 2005



NA

			ł	FORM C - EXIST	ING FLOOD (CONTROL PRO	DJECT	SHEET	SHEET OF			
WATERSHED		FORM COMP	PLETED E	BY			TYPICAL TYPES O	F FLOOD CONTROL PROJECTS	3			
Name: Municipality: County:		Name: Telephone: Date:				Channel Excar Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining			
For County Us	e;	<u></u>										
Map ID No.	Type of Flood Control Proje	(Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	od Discharge C.F.S.		Owner Name, Address, and Ph	none			
C-												
C-												
C-												
C-				e de la companya de l								
C-						***************************************						
C-				, , , , , , , , , , , , , , , , , , ,								
C-	ş							•				

N/A

	(FORM D - P	SHEET OF						
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS
Name: Municipality: County:		Name: Telephone: Date:				Channel Ex Channel R Rock Ripra	ealignment			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining
For County U	se:				-						
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Be Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Name, Address, and Phone
D-											
D-											
D-											
D-											
D-											
D-	1 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
D-											

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.



\Diamond	J	FORM E - EXISTING STORM WATER CONTROL FACILITIES	CONTROL FACILITIES	SHEET OF
A TEDOCIED		× 1		
WAIERSHED	FORM COMPLETED BY	teled BY	Definition of Storm Water Control Facility	
Name:	Name:		A natural / man-made device or structure specifically designed and / or	esigned and / or
Municipality:	Telephone:		utilized to reduce the rate and / or volume of storm wate	er runoff
County:	Date:		from a site or sites.	
For County Use:				
Map ID No. Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
-3				
-3				
ய்				
-3				
-3				
-3				
ů.				
-3				
ம்				
-3				
크				
-i-	~~~~			
Ŀ.				
<u>-</u> 필				
·id				
- -				
ம்				
ъ.				
<u></u>				
<u>-</u> п-				
i i i i i i i i i i i i i i i i i i i				
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	.ITIES Roof-Top Storage Semi-Pervious Pav Infiltration Device (IES Roof-Top Storage Semi-Pervious Paving Inflitration Device (Seepage /Recharge Basin or Underground Tank)	ылд Талк)	

NA	
7	

•				FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES	SHEET OF				
WATERSHED Name: Municipality: County:		FORM CO Name: Telephone: Date:	MPLETED			Storm Water Control Facility A natural / man-made device or struct utilized to reduce the rate and / or volution from a site or sites.	ture specifically designed and / or ume of storm water runoff				
For County Use											
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments				
F-											
F-											
F-											
F.											
F-											
F-											
F-											
F-					:						
F-											
F-											
* Enter the stor	* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem. TYPICAL TYPES OF STORM WATER CONTROL FACILITIES										
Detention / Rete Natural Pond or Parking Lot Pon	Wetland					Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepag	ge / Recharge Basin or Underground Tank)				

V/A

\bigcirc				(FORM G - E	XISTING S	TORM WAT	ER COLLE	CTION SYSTE	SHEETOI	F		
WATER	SHED		FORM COI	MPLETED I	ВҮ	Diagram ea	nch system		INSTRUCTIO		ap points to	show changes in syster	n elements,
Name:			Name:			pipe size. c	r pipe direc	tion. (If unk	nown, outline t	he system o	extent.) Con	aplete this form only who	ere specific
Municip	ality:		Telephone:			information	on constru	ction is avai	lable. Use a se	eparate forn	n for each s	ystem. Identify the point	s within a
County:			Date:			system con	secutively (ex. G-1,G-2	2,G-3). Start th	e first point	in each add	itional system 20 number	ers higher.
						For example	e, G-3 ends	one syster	n, so G-23 beg	gins the nex	t. See Sam	ole Diagrams & Form or	Reverse.
Ma	ap I.D.	Syst	stem's Elements (x)			Measurer					Design	Orașia și Drusau	Name of Final
······································	No.				Pipe		annel / Swa		Material	Year	Data	Contact Person Name and Phone	Ownership and Maintenance Responsibility
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Waintenance Responsibility
G-	G-							*****					
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
<u>G</u> -	G-				******			******					
G-	G-												
<u>G-</u>	<u> </u>				₩.								
G-	G-				***·								
G-	G-				**			*********					
G-	G-								<u> </u>				
G-	G-												
G-	G-											3	
G-	G-	· · · · · · · · · · · · · · · · · · ·	,										

^{*} See measurement key on reverse side.

MA

(•)					FORM H - P	- PROPOSED STORM WATER COLLECTION SYSTEMS SHEET OF										
WATER	SHED		FORM COM	APLETED B	3Y				INSTRUCTIO	NS						
						On the map for pro	posed storm water	collection systems	, diagram each proposi	ed system. Indicate	a map point	to show char	iges in system el	lements, pipe size, pipe direction an	d connections	
Name:			Name:											. Complete a separate form for each		
Municip	ality:		Telephone:			4								I-1, H-2, H-3). Start the first point in		
County:			Date:			† ·						oint where pr	oposed additions	s connect into existing systems, using	ng the map	
								form and map. Se	e Sample Diagrams an							
Ma	ap I.D.	Sys	tem's Element	s (x)		Measurer				Map I.D.		osed	Design	Contact Person	Name of Final	
	No.				Pipe		Channel /		Material	Nos.**	Const		Data	Name and	Ownership and	
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility	
H	H-															
H-	H-															
H-	H-															
	H-															
H-																
<u>H-</u>	H-		-													
H-	H-															
H-	H-							*******								
H-	H-									<u> </u>						
H-	H-							***************************************								
								**************************************						-		
H-	H-															
H	H-												······			
H	H-												***************************************			
H	H-															
H-	H-											and the state of t				
H-	H-		;													

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

N/A

	FORM I - PRESENT &	PROJECTED DEVE	LOPMENT IN THE FLOOD HAZARD AREA	SHEETOF
WATERSHED Name: Municipality: County:	FORM COMPLETED Name: Telephone: Date:	BY	DEFIN FLOOD HAZARD AREA: A NORMALLY DRY LA SUSCEPTABLE TO BE 100-YEAR FLOOD.	IITION IND AREA THAT HAS BEEN OR IS EING INUNDATED BY THE
For County Use: Map ID TYPE OF DEVEL No.	OPMENT	Year Built	Contact Person Name, Address and Phone	Comments
1 -				
1-				
1 -				
1 -				
1 -				
I -				
1 -				
1 -				
1 -				

N/A

10/2-1												
\Rightarrow	FORM	J - WA	TER QL	IALITY F				SHEE	Γ	OF	:	
WATERSHED				FOI	RM CC	MPL	ETED	BY				
Name:				Nam	e :							
Municipality:				Teler	phone:							
County:				Date								
SITE	J-	IJ-	J-	- J-	J-	IJ-	J-	J-	IJ-	J-	J-	J-
Types of Water Quality Problems		1		1	+	+	1	<u> </u>		 		
High Community Tolerence	i							ł				
High Temperature	l											
High Turbidity												
Hydrocarbon Pollution					ŀ							•
Low Community Diversity	1											
Low Dissolved Oxygen	1				1							
Low pH					1							
Nutrient Enrichment												İ
Poor Habitat					1							
Other/Explanation Line No.												
Potential Cause(s)	1				1	1			 	 		
Agriculture	1			1	1	1	***************************************		<u> </u>			
Construction Site				1				i				
Erosion			1		İ			ļ			1	
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
Frequency	1		<u> </u>			1			1			
Year Most Recent Occurence	1		***************************************	1	1	1			<u> </u>			
Year First Known Occurence				ŀ			•			l		
Source of Information												
BWA Streamwatch	T					T			Γ			
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.					<u> </u>					<u></u>		<u> </u>
	EXPL	ANAT	ION LI	NES								
1			····	···								
2												
3				····	······							
4		,										
5												
6				·····								
7												
8										·		
9												
10												

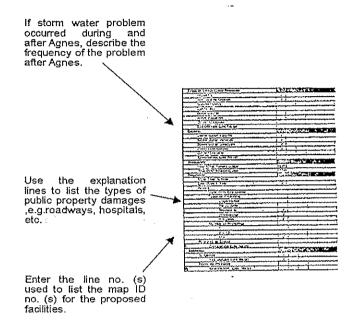
JUN 16 2003 SHEET____OF FORM A - STORM WATER PROBLEM AREAS WATERSHED FORM COMPLETED BY Before Filling Out Form, - .8.51%8 See Instructions On Back TERRY BERKEBUB Name: Name: TERRY BERKEBUB Name: TERRY
Municipality: STONYCREER Telep (5/14) 266-31/1 For County Use: Date: County: CHMBRIA MAP NO. * A-2 A-3 A-4 A-A- 1 A-Α-Α-A-Α-Α-Α-Types of Storm Water Problems Flooding 3/ Accelerated Erosion 1 Sedimentation Landslide 1 V 1/ Groundwater Water Pollution Other (Explain) Explanation Line No. Cause (s) V V Storm Water Volume Storm Water Velocity Storm Water Direction Water Obstruction Other (Explain) Explanation Line No. Frequency 2003 2003 2003 2003 Year Most Recent Occurred 1917 1977 1977 1977 Year First Known Occurred Regularity More Than 1 Year V V / Less Than 1 Year Only During Agnes Duration (If Applicable) V V Less Than 1 Day 3+ 1 Day + (Enter Days) **Property Damage** Loss of Life/Vital Services 1 Private 1 More Than One Owner Types of Properties Number of Properties Public (List Types) Explanation Line No. Solutions Suggested Explanation Line No. Formally Proposed Explanation Line No. * Include Map ID No. if found on any other form listing proposed facilities. **EXPLAINATION LINE(S)** FLOODING FROM RIVER ALSO OVERFLOWING SEWER SYSTEM STREAM SEDIMENTATION ACCUMULATING AT DEBRIS BASINS 3) 4) SANITARY SENGR OVERFLOWS DULLING HEAVY STOKMS A-4 5) 6) 7)

A Brown Star Const. Co.

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table: "-

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

EXPLANATION LINES (continued)											

,											
	,										
		·									
		-									



August 17, 2005

Project No. 00-2253.86

Mr. Robb Piper Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931

TRANSMITTAL STONYCREEK RIVER STORMWATER PLAN SOUTHMONT BOROUGH, CAMBRIA COUNTY

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from Southmont Borough, Cambria County.

Sincerely yours,

Paul C. Rizzo Associates, Inc.

Mark W. Lazzari

Watershed/Land Use Planner

WECEIVE

MWL/RJF/lir Enclosure

pc:

Southmont Borough Supervisors

AUG 19 2005 CAMBRIA COUNTY

COMSERVATION DISTRICT

1.001-2253.086/00

	A - STORM WATER PROBLEM AREAS										SHEETOF						
	1					200	Inate		- 0-					<u></u>			
di	Teler	hone.	<u>- 11 </u>	700	2001	For	Coun	ty He						······································			
23 Herigori	Date	:	(g-	16-0	31041. 3	0	Coun	ty Ost									
						<u> </u>											
A-	A-	A-	A-	A-	A-	A-	Α-	A-	A-	Α-	A-	A-	A-	A-	Α-		
 	ļ		-	<u> </u>	<u> </u>	<u> </u>	 										
	 	 	┼	 	-		 	+	-	-	_	_			 		
 	 		┼	 	-	ļ		+			-	 		┿	 		
	 		 	 			-	+			+			-			
-	 	+	 -	· 	 	<u> </u>	+	-		+-	╁—						
	 	-	 	 	┼		+	+		+	+	 		-			
 	-	1		┼─	+-		+-	┪		┿		 	-	- 	+		
 	 		- 	1	 	 	+			+		╁		- 	+		
 	 	 	 	+	 		-		┼	+			+		1		
 	 	 	 	1	 		-	-	+				+	+	╂		
 	 	 	 	+-	 	 	┼		+	+	-	+	-	- 	+		
	 	 	 	+	 	l	+-		+		-	 	+-				
 		\vdash	 	 	+		+-	+	 	-	<u> </u>	 	+	+	+		
 	-	 	 	 	-	 		+		+-	+	╂		+			
	 		 	-	-		┼	+	+	-		 	┼				
 		 	+	 	┼		-	+		+-	+	-	 		┼		
-			 	 	-		 	+	+		-	+	 		+		
		1	·	┪┈──	╁		┼──		┼		+-	+	 		╂		
1	 		 	 	+		 	+-	+		+	+-	+-	+	╁		
-		 	 	 	\vdash		 	+	╁	+		+	+				
 		 	 	 	\vdash		·	╁──	 		 	1	╂	-	\vdash		
		 	 	 	-		┪	-}	+	╂		-	+	+	+-		
 		 	 	╅	 		 	-	+	-	+		 	+	 		
 		-	 	 	1		 	 	+	┼		+		-	 		
		 		 			┼─		+	+	+	+	 	+	-		
			1				┼		╅	┪	 	┿	╂	+	 		
			 	 	-		-		 		+	╁──	 		┼		
		 	-	 	1		┼	+	 	+-	1	+	 		+		
			1	 	 		+-	+		+	+	┼	╁		+-		
		†	 	+	 		\vdash	+	 	 	+	+-	 	 	-		
	 			 	 	L	\vdash	+	 	+	+-	+	+	+	+-		
 	 		 		 		\vdash	+-	+		 	+	 	 	+-		
†		 	 	 	-		\vdash	+	 	+	+	+	+	+	╁		
 			 				1	+-	 	┪	+	 	 	+	+		
		 	 	 	 	······································	 	+	 		 	+-	 	+	+		
		 		\vdash	1		 	+-	 	+		 	 	+			
<u> </u>				 	 		 	+-	 	+	+	 	+-	+	+		
		 	1	 	-		\vdash	+	+	 	+	 	 	 	╁──		
apy of	her fo	rm lieti	ng pro	nosed	faciliti	AS	1	<u></u>	1			1	.t	Ь			
		Namer Teles Date A- A- A- A- A- A- A- A- A- A- A- A- A- A	Name: Telephone: Date:	Name: SH-Date: G-	Name: Telephone: SIH-255-Date: G-16-0	A- A- A- A- A- A- A- A- A- A- A- A- A- A	Name: Jan L Boston Telephone: SH-255-3104/ For Date: (5-16-03	Name: Jan L Bosler For Coundate: Co-16-03 For	Name: See Instruction Paris Telephone: SIH-255-3104/ Date: (6-16-03) A- A- A- A- A- A- A- A- A- A- A- A- A- A	Name: Telephone: SH-355-3104/ (5-16-03) A- A- A- A- A- A- A- A- A- A- A- A- A- A	Name: Jan Rosle See Instructions On Back	Name: SAN Bosto Telephone: SH-355-3104/ G-0.3 A- A- A- A- A- A- A- A- A- A- A- A- A- A	Name: San L Bosta For County Use:	Name: Jan Bosto See Instructions On Back	Name: John Rose See Instructions On Back		

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.

Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to first the map ID no. (s) for the proposed facilities.	If storm water problem occurred during and after Agnes, describe the frequency of the problem after Agnes.		
Use the explanation lines to list the types of public property damages etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	alter Agries.		
Use the explanation lines to list the types of public property damages etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Use the explanation lines to list the types of public property damages etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Use the explanation lines to list the types of public property damages etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		True of Condition Name	15777 2013 124
Use the explanation lines to list the types of public property damages etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		Traff 1	
Use the explanation lines to list the types of public property damages etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		21 11 2 2 2 2	ب-سماسيسين
Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		727-273	
Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		100 march 100 ma	
Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	. \	4 P.7 Vis.d An	
Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	A	N. O. Constant	
Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	- ₹	Citivaria and Jacus	
Use the explanation lines to list the types of public property damages ,e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		Creek	CANADA A TOTAL
Use the explanation lines to list the types of public property damages , e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Use the explanation lines to list the types of public property damages, e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		See of the see	
Use the explanation lines to list the types of public property damages ,e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		27.4 (117.44	
Use the explanation lines to list the types of public property damages, e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		Contract Late \$1.41	
Use the explanation lines to list the types of public property damages, e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		Property	
Use the explanation lines to list the types of public property damages, e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed		Triple I May Towers Linear	271
Use the explanation lines to list the types of public property damages ,e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed			The same of the sa
lines to list the types of public property damages , e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	Use the contraction	No. of the Land	1
public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	Ose the explanation	[m Next Vine	
public property damages, e.g. roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	lines to list the tunes of	7, 17,	
public property damages ,e.g.roadways, hospitals, etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed	intes to list the types of	No recta Com	
Enter the line no. (s) used to list the map ID no. (s) for the proposed	nublic property damages		
etc. Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Enter the line no. (s) used to list the map ID no. (s) for the proposed	e a roadwaye hoepitale		
Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Enter the line no. (s) used to list the map ID no. (s) for the proposed	etc	75.450	
Enter the line no. (s) used to list the map ID no. (s) for the proposed	w.o.	10, 15m 11 to 154 to 1	
Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Enter the line no. (s) used to list the map ID no. (s) for the proposed	- €		
Enter the line no. (s) used to list the map ID no. (s) for the proposed			
Enter the line no. (s) used to list the map ID no. (s) for the proposed	/	Salaran Control of the Control of th	CONTRACTOR OF STATE
Enter the line no. (s) used to list the map ID no. (s) for the proposed	/	5. AMERICA	
Enter the line no. (s) used to list the map ID no. (s) for the proposed	/	TIL WOMEN DATE OF GI	
Enter the line no. (s) used to list the map ID no. (s) for the proposed	/) con the restant	
used to list the map ID no. (s) for the proposed	/	A 40 1 2 12 12 12 12 12 12 12 12 12 12 12 12	
facilities	used to fist the map ID no. (s) for the proposed	• -	
	facilities		

Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater
Water in the ground below the water table:

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

	EXPLANATION LINES (continued)											
	·	-										
	·											
	·											
·····	·											

	FUR		TORM W				AS :	SHEET		OF			
WATERSHED		F	ORM C	OMPL	ETED	BY	Before Filling Out Form,						
Name: Cheney Pin				.44			See Instructions On Back						
		Nar	ne:	Wa	rkw.	Lazza	See Instructions On Back For County Use:						
Municipality: Southwat 18	ore	Tel	ephone	84	536-6	6767	For	Cour	ity Us	e:			
County: Cambria		Dat	e:]		,				
MAP NO. *	A-	A-	IA-	Α-	A-	IA-	 A-	ΙΔ	- 1 4	T	7.		
Types of Storm Water Problems				- ^`		-	 	A-	_A-	_ A	A-	A-	
Flooding	<u> </u>				+		 	┽—					
Accelerated Erosion						┼	┼	┥	 		 	4_	
Sedimentation		_		- 	 	- 	 		-	- 			
Landslide			 	- -	+	+	 	+	-	<u> </u>	 		
Groundwater	1		+		 -	+	 		+	 	 		
Water Pollution	┪		- 	1	1 A	. 				 			
Other (Explain)	-	<u> </u>	1/	-	+	\	 		<u> </u>	╀	<u> </u>	-↓	
xplanation Line No. (On Back)	<u> </u>		1		╁┈╂┈	1	ļ		 	 			
Cause (s)	 		1 1	1-1	┼╌╂╭			 	ļ.,	ļ	<u> </u>		
Storm Water Volume	 		1	4	╂	1		ļ	 	<u> </u>		↓	
Storm Water Velocity	 		-	1		#		 	<u> </u>	<u> </u>			
Storm Water Direction	 	+	1	1		_		ļ .	<u> </u>		<u> </u>	L	
Vater Obstruction	+	┪——	+-		 '-			<u> </u>	<u> </u>	<u> </u>			
Other (Explain)	-		 \	 	 	ļI		<u> </u>				<u> </u>	
xplanation Line No. (On Back)	 	┪	 	 		 		ļ					
requency	 		 	 		 		<u> </u>					
ear Most Recent Occurred	 	╅───	 	ļ		 		<u> </u>					
ear First Known Occurred	 	+	 	 									
egularity		 	 	 		 						L	
ore Than 1 Year	 	┪┈┈┈	 										
ess Than 1 Year		 	 										
nly During Agnes		 	 					[
uration (if Applicable)		 				}							
ess Than 1 Day		 											
Day + (Enter Days)							ļ						
operty Damage													
ss of Life/Vital Services													
vate													
ore Than One Owner													
pes of Properties									[
mber of Properties													
blic (List Types)													
planation Line No. (On Back)													
lutions						_							
gested													
planation Line No. (On Back)						_	_						
mally Proposed							_						
												_	

				FORM C - EXIS	TING FLOOD	CONTROL PR	OJECT	SHEET	OF	
WATERSHE	ED .	FORM COM	MPLETED E	BY .			TYPICAL TYPES	OF FLOOD CONTRO	L PROJECTS	
Name; Municipality: County:	Cheney Run Soothwood Boro Sambria	Name: Telephone: Date:	Mark h 814-5 817/05	l. Lazzari 36-6767	The state of the s	Channel Exca Channel Reali Rock Riprap	vation / Widening ignment	Levee Gabio Pipe C	ns Flo	ams podwall pncrete Lining
For County U	Jse:									
Map ID No.	Type of Flood Control Project Cheney Run Flood Trapezzal aL	Pojec	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Add South mont	Boroven	814-255-3104
	Concrete Lined C	hannel	1987	50+	100			148 Wonde Johnstown	DA 15905	
c- 2	Concrete Lined C 84" Concrete Pipe - 8	inclosed	977	50+	100			11	· i	
C-										
C-										
C-										
C-		7788								
C-										

distribution to succession and

		FORM D - P	ROPOSED	FLOOD C	ONTROL P	ROJECT		SHEETOF					
Vv.4TERSHE	D	FORM CO	MPLETED	BY			TYPICAL T	TYPES OF	FLOOD CC	NTROL PR	OJECTS		
	Cheney Run Southmont Boro Cambria	Name: Telephone: Date:	Mark l 814.536	J.Lazzain 6767			xcavation / ealignment ap		nel	Dams Floodwall Concrete Lining			
For County U	Jse:												
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase B 3 Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner	Name, Address, and Phone	••••
D-		111111111111111111111111111111111111111						AND THE PERSON NAMED IN COLUMN					
D-		^	(Λ									
D-				X									T
D-			10										
D-													
D-													
D-													

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond	FORM E - EXISTING STORM WATER CONTROL FACILITIES		SHEET OF
WATERSHED Name: Cheney Run Municipality: Southment Dorg County: Cambria	FORM COMPLETED BY Name: Mark W. Lazzavi Telephone: 814 536-6767 Date: 817	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	igned and / or runoff
Use:			
	1996-97 JAn Bolley	Southment Bereugh 148 Wonder E. Johnstown & 15905 84 255-3104	Bore two R Ownership Approx. In 2003
-12	The state of the s	The state of the s	
Ę,			
- <u>i</u>			
1. J.			
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Sen Parking Lot Pondling	LITIES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	ground Tank)	

•				FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES	SHEET OF									
WATERSHEI Name: Municipality: County:	Cheney Run Southmont Boro Egmbria		Mark W. 814-53			Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.										
For County U	lse:															
Map ID No.	Type of Storm Water Control Facility		Proposed Constant	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments									
F-																
F-			٨													
F-																
F-		Λ	M													
F-																
F-		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \														
F-		1														
F-																
F-																
F-																
* Enter the st	torm water problem area's Map	ID No., if the p TYPICAL T	roposed proj YPES OF S	ect will solve FORM WATI	or reduce ar ER CONTRO	ny / all of an identified drainage problem. PL FACILITIES										
Detention / Re Natural Pond Parking Lot P						Roof-Top Storage Semi-Pervious Paving	ge / Recharge Basin or Underground Tank)									

\bigcirc					FORM G - E	EXISTING STORM WATER COLLECTION SYSTEMS SHEET OF										
WATER	SHED		FORM CO	MPLETED	BY				INSTRUCTIO	NS						
Name: Municipa	Cheney	mont Boro		Mark W	1. Lazzari -6767	pipe size, o information system cor	or pipe direction on construction on construction of the construct	tion. (If unk ction is ava ex. G-1,G-2	known, outline t ilable. Use a se 2,G-3). Start th	the system of eparate form e first point	extent.) Con n for each s in each add	show changes nplete this form ystem. Identify litional system : ple Diagrams &	only where the points w 20 numbers	specific ithin a higher.		
M	ap I.D.	Syst	em's Elemen	ts (x)	,	Measurer		, 0,10 0,010.	T		Design	<u> </u>		Name of Final		
	No.			(1)	Pipe		nannel / Swa	ale	Material	Year	Data	Contact Per	son	Ownership and		
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and P	hone	Maintenance Responsibility		
G-	G-								_							
G-	G-						$-\Delta$	(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Im	-AG	EGAH	-04 <i>M</i>		*******	
G-	G-			$ \lambda$?	x ac	160	1	\ \ \	1 44	A Assi		- /0(1)	Y.V.Y		********	
G-	G-			1	1,			_ ^ \	A	11	\ <u> </u>		······································			
G-	G-						15	H1	1 HM	Y II WA	NY					
G-	G-	:					\ /									
G-	G-															
G-	G-			*******												
G-	G-															
G-	G-			41												
G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-)									*****	, . , , , , , , , , , , , , , , , , , ,	₹.		

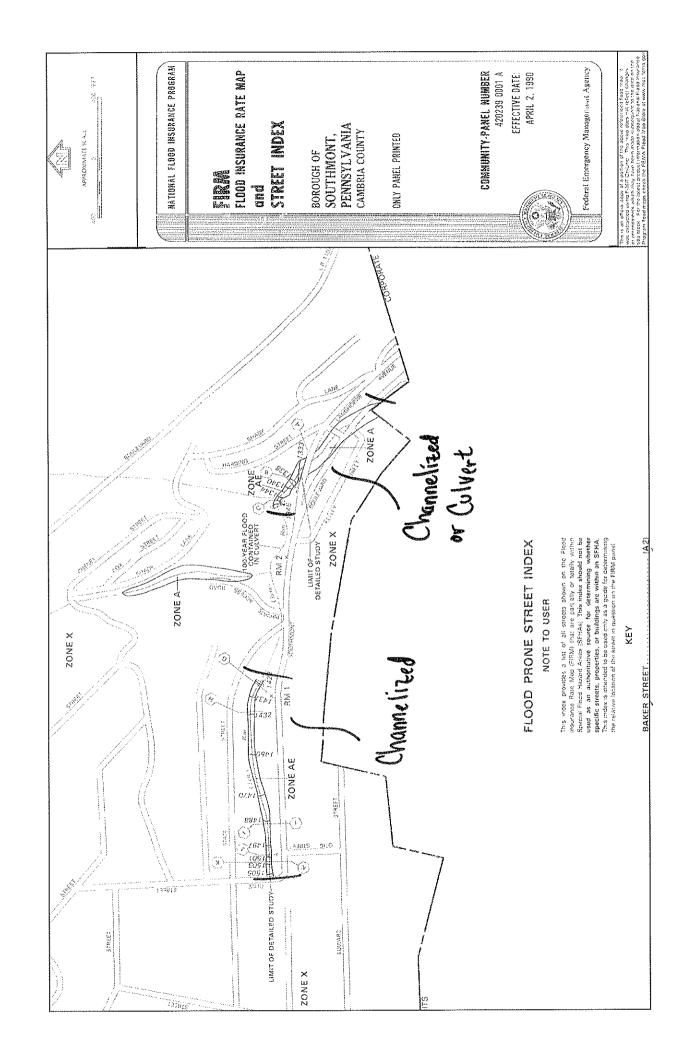
^{*} See measurement key on reverse side.

•					FORM H - F	ROPOSED STORM WATER COLLECTION SYSTEMS SHEET OF									
WATER	SHED		FORM CO	MPLETED I	3Y				INSTRUCTION	ONS					
1		^				On the map for pro	posed storm water	er collection systems	, diagram each propos	sed system. Indicate	a map point	to show cha	nges in system e	fements, pipe size, pipe direction and	connections
Name:	Chenev	kun	Name: Telephone: Date:	Mark W.	azzari									3. Complete a separate form for each	
Municipa	ality: South	mont To Rose	Telephone:	814 536	-6767									I-1, H-2, H-3). Start the first point in e	
County:	Campha	inen 1 9010	Date:		-, -,									s connect into existing systems, using	
		1.5	,			→			ee Sample Diagrams a						
Ma	ip I.D.	Svst	em's Elemen	ts (x)		Measurer				Map I.D.	Prop	osed	Design	Contact Person	Name of Final
	No.	1		` '	Pipe	Open	Channel /	Swale	Material	Nos.**	Const.	Dates	Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	Ď	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
H	H-														
<u> </u>															
H	H-							l							
															PA-4-1
H-	H-														
							- 1								
H-	H-						1		İ						
								1/1							
H-	H-					\	a de la composition della composition della comp		l						
											:				
H-	H-					.1 \		1X	l						
H-	H-														
								1				İ			
H-	H-														<u> </u>
											1 1				
H-	H-							l							
H-	H-														
												•			
H-	H-														
H-	H-														
· · · · · · · · · · · · · · · · · · ·		·													
H-	H-														
H-	H-													9	<u> </u>
H-	H-		ż						<u> </u>	<u> </u>					<u></u>

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

	FORM I - PRESENT & PROJ	ECTED DEVEL	OPMENT IN THE FLOOD HAZARD AREA	SHEETOF							
Name: Chency Run Municipality: 500 Mmont Boro County: Cambria	Name: Mark Telephone: 9/4 Date:	W. Lazzari 36-6767 105	DEFINITION FLOOD HAZARD AREA: A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS SUSCEPTABLE TO BEING INUNDATED BY THE 100-YEAR FLOOD.								
For County Use: Map ID TYPE OF DEVEL No.	OPMENT Year Built		Contact Person Name, Address and Phone	Comments							
1 -		Son	Mal I Fama MAD								
1 -		7(1	Attaly Fema MAP								
1-											
-											
1 -											
1 -											
1 -											

\Rightarrow	FORM	J - WAT	ER QUA	LITY P	ROBLEI	M ARE	AS :	SHEET	-	OF	***************************************	
WATERSHED				FOF	RM CO	MPLE	TED	BY				
					Name: Mark W. Lazzari Telephone: 814 536-6767 Date:							
SITE	IJ-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems		1										
High Community Tolerence		1							1			
High Temperature								İ	1			
High Turbidity							1					
Hydrocarbon Pollution					ļ			Ì				
Low Community Diversity												
Low Dissolved Oxygen												
Low pH			,]					
Nutrient Enrichment				/ I								
Poor Habitat		A		1								
Other/Explanation Line No.			\ 				ļ					
Potential Cause(s)		1 1	\ 	X		1		 		T		
Agriculture		1	111									
Construction Site		1 1		\	1							
Erosion		· '	1 V 1									
Lake Discharge			1				:					
STP Outfall	1		1									
Other/Explanation Line No.												
Frequency												
Year Most Recent Occurence									<u> </u>			
Year First Known Occurence											<u> </u>	
Source of Information												
BWA Streamwatch												
County Water Quality Study						ł						
Driveby	1										1	
UCCD Complaint Investigation		:		:								
Other/Explanation Line No.						<u> </u>				<u></u>	<u> </u>	L
	EXPL	ANATI	ON LI	<u>VES</u>	~							
1												
2												
3												
4			*********									
5				·····								
6			·									
7					·							
8												
9						*******************************						
10												



	EODM	I A CT	○□	(ATC:D.)	anoni e	-1.2.1.55.00								
	FORIV	IA-STO	JRIVI VV	AIERE	'ROBLE	M ARE.	AS S	SHEET	1	OF				
WATERSHED		FO	RM C	OMPL	ETED	BY	Before Filling Out Form,							
Name: STONYCREEK		Nam	Name: J. BIANCOTTI						See Instructions On Back					
Municipality: SOMERSET TW	Р				-445 -		For	Coun	ty Llo					
County: SOMERSET CO	Date		6/30		40/3	- ' ''	Cour	ty US	₽,					
	1	•	9) 50	// U.L	***************************************	-								
MAP NO. *	A- /	A- 2	A-	A-	Α-	A-	Α-	A-	A-	A-	A-	A-		
Types of Storm Water Problems														
Flooding														
Accelerated Erosion			ļ											
Sedimentation	1											1		
Landslide														
Groundwater			ļ									T		
Water Pollution									T			T		
Other (Explain)			<u> </u>											
Explanation Line No. (On Back)									T			1		
Cause (s)											1			
Storm Water Volume		<u> </u>	<u></u>									1		
Storm Water Velocity														
Storm Water Direction										1	1			
Water Obstruction								T	1	1	1	1		
Other (Explain)											1	 		
Explanation Line No. (On Back)	1	1					 	1	<u> </u>	<u> </u>	 	1		
Frequency]				1	 	 	†	 		
Year Most Recent Occurred	2004	2004					<u> </u>	1			†	†		
Year First Known Occurred								1		†	 	 		
Regularity						1						 		
More Than 1 Year		-									 			
Less Than 1 Year					T	—		†		 	 	 		
Only During Agnes														
Duration (If Applicable)										· · · · · · · · · · · · · · · · · · ·		 		
Less Than 1 Day						1		<u> </u>						
1 Day + (Enter Days) 🕂 ▮	9	1								———				
Property Damage						1		·						
oss of Life/Vital Services				 	†	†								
Private	1				†	 								
More Than One Owner					1	 					 			
Types of Properties				1	†	11								
Number of Properties				 	<u> </u>	 								
Public (List Types)			***************************************		 									
xplanation Line No. (On Back)					<u> </u>									
Solutions					 	╂								
Suggested	~				 	 								
xplanation Line No. (On Back)	1										\longrightarrow			
ormally Proposed	1					 	 -}			}				
xplanation Line No. (On Back)						├──┼								
Include Map ID No. if found of	on any off	er forr	n listir	na pror	need	facilitie								

mg.

MOTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.

If storm water problem occurred during and after Agnes, describe the frequency of the problem after Agnes.			
		Topical Liver Apic Religion	100000000000000000000000000000000000000
_		An and section in	
	\	Manager 1	
	_	***************************************	
	74	ANY PARA	
	-	100000000000000000000000000000000000000	
		tank.	7.7.7.7.7.7.7.7.7.1.1.1.1.1.1.1.1.1.1.1
		Breat Co or products	+ 5
		27 47 (12 mg	
		THE PARTY OF THE P	
		Parkets.	
		The same of the sa	17.51
4.4		10000	
Use the explanation		10000	
lines to list the types of			
mies to use the types of	·	AND THE PROPERTY OF	
public property damages	-		
e.g.roadways, hospitals,	_	19.1.5%	
		-	
etc.		- Street	
		" THE ALL PROPERTY.	
			
	-	***	
		CHARGE LANGE	
	/	LANCE TO SERVICE THE PARTY OF T	72.000.000
	/	2 975	
,	/	Territorian I co be at	
/		COMMO 100 010	
Enter the line no. (s)			
mire ine ine in. (2)			
used to list the map ID			
no (c) for the areasond			
no. (s) for the proposed			
facilities.			

Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

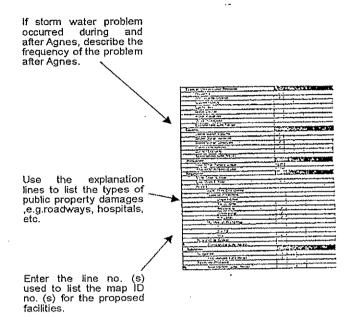
A1 + A=	STREAM CHANNEL LOSES SLOPE PERMITTING SEDIMENTATION; REDUCES VOLUME STREAM CHANNEL. SUGESTED SOLUTION: DREDGE CHANNEL.	OF
-		ĺ

	FORM	A - STORM WATER PROBLEM AREAS SHEET 1 OF 1														
WATERSHED						Before Filling Out Form, See Instructions On Back										
		1					For County Use:									
Municipality:SOMERSET TWP					45-46	/5	for (ount	y use							
County: SOMERSET CO.		Date:		6/	2/03		-									
MAP NO. *	A- /	A- 2	A- 2	ΙΑ-	A-	Α-	A-	A-	A-	ĪA-	A-	Α-	A-	A-	Α-	Α-
Types of Storm Water Problems	 ``	 ``	<u> </u>	 ` ` 	 ``	, , 	ť	 		† `	 ``	 ```	ļ			
Flooding	1		 	 	1	 	1	1			†					
Accelerated Erosion		<u> </u>													*********	***************************************
Sedimentation	V															
Landslide																
Groundwater			_									<u> </u>				
Water Pollution		1	./	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ	<u> </u>				
Other (Explain)		 	<u> </u>			1	ļ			<u> </u>	 		<u> </u>			
Explanation Line No.	-	1		<u> </u>		-	 	 	 	 	 		<u> </u>	<u> </u>	 	<u> </u>
Cause (s)	1			<u> </u>	 	 	 	 	 	 	 		 		 	ļ
Storm Water Volume	+-				+	-	 	 	ļ	 	 	<u> </u>		<u> </u>	\vdash	 -
Storm Water Velocity		 		ļ		 	 	 	<u> </u>	 	<u> </u>			<u> </u>		<u> </u>
Storm Water Direction Water Obstruction				 	+		-	 			\vdash					
Other (Explain)		 	 	 	+	1	 	 		\vdash	 					
Explanation Line No.	- 	 			+		\vdash	\vdash	 	 	 	 				
Frequency				\vdash	+	\vdash		ļ		†			\vdash		<u> </u>	
Year Most Recent Occurred	2005				1		\top	 		1	†		 -		\vdash	
Year First Known Occurred	;'	T			1		1	<u> </u>	 	1	1					
Regularity					1	1	1	1								
More Than 1 Year	V															
Less Than 1 Year																
Only During Agnes																
Duration (if Applicable)						ļ		<u> </u>	ļ		<u> </u>	<u> </u>			<u> </u>	L
Less Than 1 Day				ļ		ļ	ļ	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ			<u> </u>	<u> </u>
1 Day + (Enter Days)	2	<u> </u>		<u> </u>		 	 		<u> </u>	1	 	ļ		<u> </u>	 	<u> </u>
Property Damage		 		ļ	 	<u> </u>	-	 	 	ļ	_		ļ		 	<u> </u>
Loss of Life/Vital Services		 	<u></u>	 		 	 	 	<u> </u>	 			 	_		<u> </u>
Private	-	-	-	 	 	 	 	-	-	 	 	-	 	-	 	
More Than One Owner Types of Branarties	+	-	 	 		 	 	\vdash	 	 	 	-	 		ļ	
Types of Properties Number of Properties		+-	 -	 	-	 	+	-	\vdash	 	 	 	<u> </u>	 		
Public (List Types)	+	-	<u> </u>	 	 	 	1	+	 	 	 	\vdash	 			
Explanation Line No.	+		<u> </u>	 	-	 	1	 	+-		 	\vdash	 	 	 	
Solutions	+		<u> </u>	 		\vdash	1	†	\vdash	T	 	T	 		 	
Suggested	 		1	1	1	 	1	†	1	†	 	†				
Explanation Line No.			1	†	1	†		1	1		T	1				
Formally Proposed	1		<u> </u>	1	· · · · · · · · · · · · · · · · · · ·	1		1	1							
Explanation Line No.						L	L	L								
* Include Map ID No. if found o	n any o	ther fo	rm listi	ng pro	posed	facilit	ties.									
EXPLAINATION LINE(S) 1) A circl Mijve 2) 3) 4) 5) 6) 7) 8)	aswa	ge_				···········								 		
3)																
4)																
5)																
6)																
7)																
8)																

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landsides, or any other problem as a result of storm water runoff,

Groundwater
Water in the ground below the water table:

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

EXPLANATION LINES (continued)

				FORM C - EXIS	STING FLOOD CONTROL PROJECT SHEET OF										
WATERSHE	.D	FORM CO	MPLETED	BY	TYPICAL TYPES OF FLOOD CONTROL PROJECTS										
Name: Municipality: County:	STONYCREEK SOMERSET TWP SOMERSET CO.	Telephone:	. BIANCO 814-445- 6/30/05	TTI 4675	Channel Excavation / Widening Channel Realignment Rock Riprap			Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining						
For County U	Jse:	<u> </u>			<u> </u>	······································									
Map ID No.	Type of Flood Control Project	ot	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and Phone							
C-	NONE- DOES NOT APP	PLY													
C-															
C-															
C-															
C-															
C-															
C-	;			14.2											

				FORM D - P	ROPOSED	FLOOD CO	ONTROL P	ROJECT	SHEET OF				
WATERSHE	D	FORM CO	MPLETED	BY	TYPICAL TYPES OF FLOOD CONTROL PROJECTS								
Name: Municipality: County:	STONYCREEK SOMERSET TONWHSIP SOMERSET COUNTY	Name: J. BIANCOTTI Telephone: 814-445-4675 Date: 6/30/05			Channel Excavation / Widening Channel Realignment Rock Riprap					Levee Darns Gabions Floodwall Pipe Channel Concrete Lining			
For County U	Jse:					-							
Map ID No.	Type of Flood Control Project	Flood Control Project Study Phase Begun YES N0 Prelim. Final		egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.		Owner Name, Address, and Phone		
D-	NONE- DOES NOT APPLY												
D-													
D-													
D-													
D-													
D-													
D-								And the second s					

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

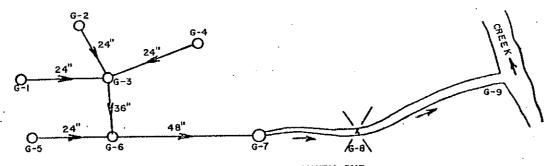
•				FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES_	SHEET 1 OF 1
WATERSHE Name: Municipality: County:	STONYCREEK SOMERSET TOWNSHIP SOMERSET CO.	FORM CO Name: Telephone: Date:	MPLETED J. BIANO 814-445- 8-12/05	OTTI		Storm Water Control Facility A natural / man-made device or struct utilized to reduce the rate and / or volu from a site or sites.	
For County L	Jse:						
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments
F-	NONE- DOES NOT APPLY						
F-				:			
F-			-				
F-							
F-							
F-		1.010.00					
F-							
F-							
F-							
.F-							
F-							
* Enter the s	torm water problem area's Map II	D No., if the pr TYPICAL T	oposed proj YPES OF S	ect will solve TORM WATE	or reduce ar	ny / all of an identified drainage problem. DL FACILITIES	
Detention / R Natural Pond Parking Lot F						Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepag	ge / Recharge Basin or Underground Tank)

\bigcirc					FORM G - E	XISTING S	TORM WAT	TER COLLE	CTION SYSTI	EMS		SHEET 1 OF	1
WATER	SHED		FORM CO	MPI FTFD	BY				INSTRUCTIO	NS			
, , , , , , , , , , , , , , , , , , ,	OFILE			.,,,,		Diagram e	ach system				an points to	show changes in system e	lements.
A 1		~~~~~	Mana	T DT 1370	~ mm **	nino oizo	r nino diroc	tion (If unk	nown outline t	he evetem	evtent) Con	nplete this form only where	specific
Name:	STONY			J. BIANC		pipe size, c	y hihe direc	uon. (n unk	Howir, Outmie (on aroto for	oxiona, oon	votem Identify the points w	ithin a
		RSET TWP	Telephone:		4675	information	on constru	ction is ava	liable. Use a si	eparate ion	ii ioi eacii s	ystem. Identify the points w	Mulli d
County:	SOME	RSET CO.	Date:	8/12/05		system cor	isecutively ((ex. G-1,G-2	2,G-3). Start th	e first point	in each add	litional system 20 numbers	nigner.
								s one syster	ო, so G-23 beდ	gins the nex	t. See Sam	ple Diagrams & Form on Re	everse.
Ма	ıp I.D.	Syst	em's Elemen	ts (x)		Measurer	ments *				Design		Name of Final
	No.	Í		. ,	Pipe	Cł	nannel / Swa	ale	Material	Year	Data	Contact Person	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility
1 10111	10	1 100	Open Onamic	Onaro									
<u></u>	G-	NONE- DOE	ር ፑርጥ ለወቅ	v									
G-	G-	NONE DOL	o nor arr	0.1									
G-	G-												
G-	G-												
G-	G-												
											ŀ		
G-	G-												
G-	G-												
	<u> </u>	***************************************											
_				-						j .			
G-	G-					*******							
_	_												
G-	G-												
G-	G-	-											
G-	G-												
	······································												
G-	G-												
<u> </u>													
G-	G-								-				
<u> </u>	5										<u> </u>	***************************************	
_	G-												
G-	<u>5-</u>			W							 		
_	_												
G-	G-												
G-	G-												

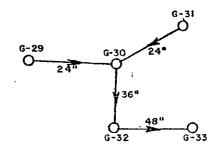
^{*} See measurement key on reverse side.

Measurement
Key

D = Diameter
TW = Top Width
B = Bottom Width



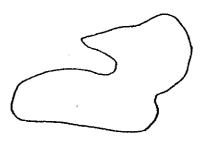
SAMPLE DIAGRAM FOR SYSTEM ONE



SAMPLE DIAGRAM FOR SYSTEM TWO

SAMPLE FORM (System One Only)

						~	P21	coles si	-	COLLECTIO	M STATEM	100H 4	2111
H	4. ··					***	+1.177						off to files. Prop. sing on plans discretion, jet upperman, quelling field invitabilities are supplied for the supplied field invitabilities are supplied for the supplied field in the supplied field field for the supplied field
Ξ	TA	L								J=	Ħ	2227	Productions Westernaments
<u> </u>	-3- 01	7	2-2				-*-			1875	Yes	Adm Dos 1224567	Security of ASC
62	6,	-			,,.				0.00	1971	Y.	34a Get 1734HD	Surphy of ASC
54	۵,	,	-	_	74"				صه	1978	788	بهر (مور) 123-4947 ممور)	Sprengt of ASC
	G.4	,	 		. -					ten	Yes	Jahn Con 12124887	brough of ABC
ge.	Ç.0	,	<u> </u>		" .	_	-		Car.	1916	Yes	20% Dec 1354587	teraph of ARC
C.	ar	,	\vdash		44*			-	0.00	1878	Yes	Julya Ope 123-4587	Bernyh of ASC
G 7	c •	 				24"	-	74	Carerra	1890	Yes	Jahrs Dave 173-4587 -	Surrey of ASC
C 8	0.9	\vdash	1	,		m-	-	*	-	•			hamp of ARC
•	•	T	1		Γ		Γ	Γ					
•		1	1		Γ	1	1			Ţ			
•	-	1	1			\vdash				T			



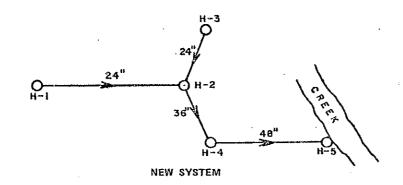
Outline known areas where construction exists but construction data is unavailable.

$\langle \bullet \rangle$					FORM H - P	ROPOSED	STORM W	ATER COL	LECTION SYS	STEMS		(SHEET _	_1OF1		
WATER	RSHED		FORM CO	MPLETED I	3Y				INSTRUCTIO	NS						
Municip	STONYCRE pality: SOME SOMERSE	ERSET TWP	Name: J. Telephone: Date:	BIANCOT 814-445 8/12/05	-4675	to existing systems new system and on additional system 2	. For proposed add e for each existing 0 numbers higher	oitions to existing s system having on (if H-3 ends one sy	ystems, diagram only the e or more proposed add	ne additions and thei ditions. Identify the p ith H-23). Be sure to	ir connection points within a show the p	n point into the a system cons	existing system secutively (ex. H	lements, pipe size, pipe direction an n. Complete a separate form for each 1-1, H-2, H-3). Start the first point in s connect into existing systems, usin	h proposed. each	
M	lap I.D.	Syst	tem's Elemen	ts (x)		Measuren		The state of the s		Map I.D.		osed	Design	Contact Person	Name of Final	-
	No.	,		. ,	Pipe	Open	Channel / S	Swale	Material	Nos.**		Dates	Data	Name and	Ownership and	
From	To	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility	
H	H-	NONE-	DOES NOT	APPLY												
H-	H-															
H-	H-				-											
H	H-						-									_
	H-												:			7
H																-
H-	H-															-
H	H-															-
H-	H-						·······									_
H	H-															_
H	H-															
H-	H-															
H-	H-															
H-	H-			b												•
······	H-			***************************************										5		1
H-			<u>;</u>						I							_
H-	H-	<u> </u>	1 :	** [L arabiam ar	ogo! Man I	D Noc if r	roposed proje	ot will solve	or redi	ice any /	all of the	drainage problems		ٺ

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

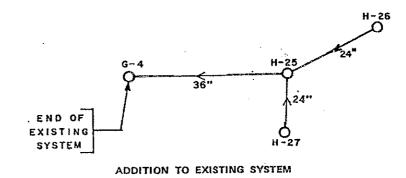
Measurement
Key

D = Diameter
TW = Top Width
B = Bottom Width



SAMPLE FORM (New System Only)

-	_				-	٠	#LETES		-1	****			~	1==		areans, physical party die befolken bed pag one provincipale in michig feminik ning one de party problems namens kannak strong (m. 148 ont)
Court					_		_		_1	<u> </u>						
		-	0	ועים	~=.	· 0	ቘ		-		=:			=		Mark Committee
73.	7e_ 11.2	,	_Coccet.		74"	199	*	- Carry	cus		A-1		,	Yas	Juha Dao 123-4407	Surpoph of ASC
**1	H2	,			76				Cur		м	1982	1967	y.,	Japan Care 125-4167	Serveyh of ABC
H2	14.4	,			ж.	_			040		A-3	1992	1947	Yet	John Date 173-4567	Burneys, of ASC
 H4	μ,	,			4				ص		A-3	1983	1002	Yan	50- Dec 123-1661	Boraugh of ABC
H								<u> </u>				_	_			
*	jų.						<u> </u>		L			_	_			
**	14						_		L			_	_		<u> </u>	ļ
pė.	н.	_							ļ_		_		ļ	<u> </u>		<u> </u>
H	+					_	<u> </u>		_			ļ				
14	*					<u>L</u>	L	<u></u>	L		<u>L</u>	<u>L_</u>	<u>L_</u>	<u> </u>	<u> </u>	I
7				t	O. 1844.	* ***	-		~ .		-					



		FORM I - PRESENT	- & PROJECT	ED DEVELO	OPMENT IN THE FLOOD HAZ			SHEET 1	OF1	
WATERSHED Name: STONYCR Municipal <mark>ity: SOME</mark> County: SOME	RSET TWP	FORM COMPLETE Name: Telephone: Date:	J. BIANCO 814-445-4 8/19/05		FLOOD HAZARD /	AREA: A NORMALLY [TO BEING INUNDA	HAT HAS BEEN OR IS ATED BY THE	8	Windows and the second
For County Use: Map ID TY No.	PE OF DEVELO	PMENT	Year Built		Contact Person Name, Address and Phone			Comments		
	DNE							4444444		
-					A STATE OF THE STA		14 30 10 74 74 74 74 74 74 74 74 74 74 74 74 74	1000000		
-										
l -										
-				Live and the second of the sec				essergens with worsts in the second s		
-										
I -										2 2 2005

\Rightarrow		FORM .	J - WAT	ER QU	ALITY P	ROBLE	M ARE	AS	SHEE	г <u> </u>	0	F1_	
WATERSHED					FOF	км со	MPLE	TED	BY				
Name:	STONYCREEK				Name			BIA					
Municipality:	SOMERSET TO) 			hone:		4-44		/5			
County:	SOMERSET COU	JNTY			Date:		8,	/19/0)5				
SITE		J- 1	J - 2	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Q	uality Problems												
High Community T	olerence									1			
High Temperature													
High Turbidity		1					1			1		ļ	
Hydrocarbon Pollu	tion]		
Low Community D	iversity								1				
Low Dissolved Oxy	/gen		~										
Low pH													
Nutrient Enrichmer	nt												
Poor Habitat]					ļ		İ			
Other/Explanation	Line No.				ļ			ļ			•		
Potentiai Cause(s													
Agriculture													
Construction Site		İ											
Erosion]		
Lake Discharge													
STP Outfall													
Other/Explanation	Line No.	1	/		1	ŀ					1		
Frequency			,										
Year Most Recent	Occurence	ongory	مان كان					T					
Year First Known 0	Occurence	0	8 40				-						
Source of Informa	ntion												
BWA Streamwatch	····									1			
County Water Qua	lity Study				-								
Driveby	·		_{//}										
UCCD Complaint I	,		້										
•	Ţ.	1]					
Other/Explanation	Line No.					İ							
		EXPL/											
1 ACID MINE	DRAINAGE FRO	M OLD	COAL	MINE	ES								
2 VILLAGES (OF HUSBAND AN	D ZIMN	1ERMA	N; PI	ROBABI	E MA	LFUN	CTIO	NING	OR :	I-NON	EXIS.	CENT
ON-LOT SEV	VAGE DISPOSAL	SYSTI	EMS.	AREA	IDENT	IFIE	D IN	MOS'	r RE	CENT	ACT	537	PLAN
	TWP CURRENTL												
DISPOSAL S	SYSTEM.												
·													
	***************************************								~~~				



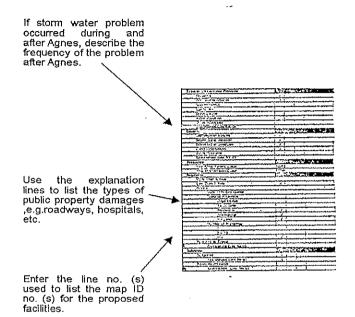
JUN 1 (6 -24M 2	A - STOI	RM WAT	TER PR	OBLEM	1 AREA	s				SHI	EET_	1	0	=_/	
WATERSHED		· _V FOR	м сог	MPLE	TED E	ΪΥ			ling O							
ONSERVATIO Name:	ai dis		e:						ictions		3ack					
Name:		Name	: ;	59 M	Doni	A										
Municipality: Quemakonin	4 T.OP	Telep	hone(: ና	8 (1-18	43-5	025	For (Count	ty Use	:						
Name: Municipality: County: Municipality: Quemahmin Sunersct	<u></u>	Date:		12 5	ine	03										.[
													·····		,,	
MAP NO. *	A- 1	A- <u>L</u>	A- "3	A-	A-	A-	A-	Α-	A-	A	Α-	A-	A-	A-	A-	A-
Types of Storm Water Problems						ļ	ļ	ļ	<u> </u>	<u> </u>	ļ				<u> </u>	
Flooding	W	<u></u>			<u> </u>	ļ		└				ļ	<u> </u>			
Accelerated Erosion	ļ					<u> </u>	ļ					ļ	<u> </u>	ļ	ļ	igwdown
Sedimentation		ļ			 		ļ	 		-		ļ	<u> </u>	ļ	ļ	igwdown
Landslide	<u> </u>					ļ	<u> </u>	ļ				<u> </u>	ļ		ļ	
Groundwater	ļ			<u> </u>		ļ	 	 	ـــــ		<u> </u>	ļ			ļ	
Water Pollution	<u> </u>						ļ	 	 	<u> </u>	<u> </u>	ļ	<u> </u>			
Other (Explain)	-	<u> </u>	<u> </u>	<u> </u>		1	 	<u> </u>		<u> </u>	 	ļ	-	<u> </u>	 	 _
Explanation Line No.		<u> </u>	<u> </u>				 	-	<u> </u>	Į	ļ	 	 	 	 	
Cause (s)	 	<u> </u>					<u> </u>	<u> </u>		 	ļ		 	<u> </u>	ļ	1
Storm Water Volume	1 1	اسسا	<u> </u>	<u> </u>	<u> </u>	 	<u> </u>	 	<u> </u>	<u> </u>	<u> </u>	-	ļ		ļ	↓
Storm Water Velocity						-		<u> </u>				<u> </u>		 	 	↓
Storm Water Direction	<u> </u>				<u> </u>		 	 		<u> </u>		<u> </u>		ļ	 	↓
Water Obstruction				ļ	ļ		1	 	_	<u> </u>	_		ļ	 	-	+
Other (Explain)			<u> </u>				<u> </u>				 	<u> </u>	ļ	ļ	ļ	
Explanation Line No.						ļ		<u> </u>			ļ		ļ	<u> </u>	<u> </u>	
Frequency								ļ			ļ			ļ	ļ	
Year Most Recent Occurred					<u> </u>	<u> </u>	<u> </u>	<u> </u>		ļ		<u> </u>	ļ			
Year First Known Occurred							<u> </u>	<u> </u>		ļ	<u> </u>			ļ	ļ	<u> </u>
Regularity	,			ļ <u>.</u>			<u> </u>					ļ	ļ		ļ	<u> </u>
More Than 1 Year	ŷ			<u> </u>			<u> </u>	<u> </u>			<u> </u>			<u> </u>	ļ	
Less Than 1 Year	20							<u> </u>				ļ	<u> </u>	ļ		
Only During Agnes	19,	<u> </u>						<u> </u>		<u> </u>	<u> </u>		<u> </u>		ļ	
Duration (If Applicable)	1/2	ļ.,											<u> </u>	ļ	ļ	↓
Less Than 1 Day	J.	ļ				ļ		ļ			ļ	1	<u> </u>	ļ	<u> </u>	$\perp \perp \perp$
1 Day + (Enter Days)				ļ				<u> </u>		<u> </u>			<u> </u>			
Property Damage		<u> </u>									<u> </u>		<u> </u>		ļ	
Loss of Life/Vital Services										<u> </u>		<u> </u>	<u> </u>	ļ	<u> </u>	
Private	V	·/												<u> </u>	ļ	
More Than One Owner	V	/										↓	ļ	<u> </u>		
Types of Properties	4030		<u> </u>		1									<u> </u>		
Number of Properties	1/2/2							<u> </u>			ļ		<u> </u>	<u> </u>	—	<u> </u>
Public (List Types)	Assa of	1	<i>``</i>					1						ļ	ļ	
Explanation Line No.	Road	Roid	Road					<u> </u>		ļ			<u> </u>	ļ		
Solutions								_					ļ			
Suggested		<u> </u>					<u> </u>	 					ļ	ļ	<u> </u>	1
Explanation Line No.								<u> </u>				<u> </u>	<u> </u>			
Formally Proposed				<u> </u>			<u> </u>	<u> </u>					<u> </u>	 	<u> </u>	
Explanation Line No.			<u></u>	<u> </u>	<u> </u>		<u> </u>				<u> </u>			L		
* Include Map ID No. if found o	n any o	<u>ther fo</u>	<u>rm listi</u>	ng pro	posec	l facili	ties.									
2) unknown solution	edged											·····			······	
3) 1\ \(1\)																
7 / 5)																
6\																
7)		······································														
<u>/)</u>																

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

EXPLANATION LINES (continued)



ENGINEERING ARCHITECTURE and DESIGN SERVICES



October 12, 2005

OCT 12 2005

Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931

CONSERVATION DISTRICT

ATTN: Robb Piper

STONYCREEK ACT 167 PLAN STORMWATER MANAGEMENT

Dear Robb,

On behalf of Paint Township, we have completed the forms for the Stormwater Management Plan received at the Phase II Meeting on June 22, 2005. The completed forms are enclosed with this memo as well as a map of the areas contributing to the Stonycreek Watershed.

If you have any questions or concerns, please contact us at (814) 445-6551.

THE EADS GROUP, INC. (Somerset)

By: Jeffrey S. Haynal, E.I.T.

cc: File # 6036-G-01, w/ enc.

Paint Township, w/ enc.

Pat Mulcahy Central File

Somserv/Jeff H/Paint Twp/Act 167 Cover Letter

NA	FORM	MA-ST	ORM WA	TER F	ROBLE	M ARE	AS S	HEET_		OF	9	
WATERSHED		FC	RM CC	MPLI	ETED I	BY			ling C			
Name: Stony CREEK Municipality: PAINT Tunnsh		Nan	ne:	PAT	Mucci	344						
Municipality: PAINT Townshi	119	Tele	phone:	814	~ 445~l	0551	For	Count	y Use	 }:	·····	
County: Somepse7		Date	ne: ephone: e:		7/23/05	-			,			
MAP NO. *	A-	A-	A-	A-	A-	Α-	A-	A-	IA-	A-	Α-	A-
Types of Storm Water Problems									1		1	1
Flooding]						1		
Accelerated Erosion												
Sedimentation					T	T					1	
Landslide												
Groundwater												
Water Pollution												
Other (Explain)								1				
Explanation Line No. (On Back)									T			
Cause (s)									1			
Storm Water Volume												
Storm Water Velocity								Î				
Storm Water Direction												
Water Obstruction								1				
Other (Explain)						************				1	1	
Explanation Line No. (On Back)									1			
Frequency				I			T		T	1		
Year Most Recent Occurred											1	
Year First Known Occurred												
Regularity												
More Than 1 Year												
Less Than 1 Year												
Only During Agnes												
Duration (If Applicable)												
Less Than 1 Day												
1 Day + (Enter Days)								I				
Property Damage												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
Solutions												
Suggested												
Explanation Line No. (On Back)					1	<u> </u>						
Formally Proposed												
Explanation Line No. (On Back)			Ţ			<u> </u>	<u> </u>					
Include Map ID No. if found or	any o	ther fo	rm listir	g pro	posed	faciliti	es.					

\triangle \wedge	l _A			FORM C - EXIST	ING FLOOD (CONTROL PRO	DJECT	SHEET_	Z of	}
WATERSHE	O	FORM COM					TYPICAL TYPES C	OF FLOOD CONTROL PROJECTS		
Name: Municipality: County:	STONYCREEK PRINT TOWNSHIP SOMERSET	Name: Telephone: Date:	Par Mu 814-4 9/23/	LCAHY 45-6551 105		Channel Excav Channel Realion Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining	
For County U	se:		······································							92.4
Map ID No.	Type of Flood Control Projec	et :	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	od Discharge C.F.S.		Owner Name, Address, and Pho	ne	
C-										
C-								~		
C-										
C-										
C-					-					
C-										
C-	:		A desperation of the second of							

	N/A			FORM D - P	ROPOSED	FLOOD CO	ONTROL PI	ROJECT			SHEET_	3	_OF	9	
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS				
Name: Municipality: County:	Stonycreek Paint Township Somerset	Name: Telephone: Date:	Pay Mu 814-445 9/23/	LCAHY -655/			xcavation / ealignment ap			Levee Gabions Pipe Chan	nel	Dams Floodwa Concret			
For County U	se:														
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Bo	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owne	r Name, A	ddress, ar	d Phone	
D-															
D-											***************************************	w+10+10+10+10+10+10+10+10+10+10+10+10+10+		***************************************	
D-															
D-															
D-															
D-															
D-									=						

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond			FORM E - EXISTING STORM WATER CONTROL FACILITIES	ONTROL FACILITIES	SHEET / OF /
WATERSHED	l	FORM COMPLETED BY		Definition of Storm Water Control Facility	
Name; Municipality; County;	STANYCREEK FAINT TOWNSHIP SOMEOSET	Name: Telephone: Date:	147 (Mucayy 814-445-6551 9/23/05	A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	ssigned and / or er runoff
For County Use:			- Company of the Comp		
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
<u>-</u>	SEDIMENT TREP	2005	PAINT TONNENIP OFFICE	1751 BASIN DRIVE	
ů.				MINNSOR, PA 15963	
<u>.</u>				0,	
ιὑ					
'n					
-3					
ú					
Ü					
<u></u>					
μ̈́					
ů.					
ம்					
ய்					
ü					
<u>.</u>					
ம்					
Ų.					
Ē,					
ய்					
ឃុំ					
ធ់រ					
ü					
TYPICAL TYPES OF STr Detention / Retention Bas Natural Pond or Wetland Parking Lot Pondling	ORM WATER CONTROL FACILIT	TIES Roof-Top Ston Semi-Pervious Infiltration Devi	IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	und Tank)	

•	NA			FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES	SHEET <u>5</u> OF <u>9</u>
WATERSHE Name: Municipality: County:	StonyCleeK	FORM COM Name: 2 Telephone: Date:		CAHY		Storm Water Control Facility A natural / man-made device or structure utilized to reduce the rate and / or volume from a site or sites.	
For County U	Jse:		····				
Map ID No.	Type of Storm Water Control Facility	[Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments
F- F-							
F-							
F-							
F-							
F-							
F-							
F.							
F-							
F-							
	torm water problem area's Map	ID No., if the pro	posed proj	ect will solve	or reduce ar	ny / all of an identified drainage problem.	
	. ,	TYPICAL TY	PES OF S	TORM WAT	ER CONTRO	L FACILITIES	
Detention / Ro Natural Pond Parking Lot P						Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /	Recharge Basin or Underground Tank)

													•	,
\bigcirc					FORM G - E	XISTING S	TORM WAT	TER COLLE	CTION SYSTI	EMS		SHEET 6 0	=9	
10/075	COLIED		FORM CO	MOLETED	RV	T .			INSTRUCTIO	NS				
WATER	KOMEU		PORIVI COI	MILITER	ы	D:		on the ener	anziata man	Establish m	an nainte ta	show changes in syster	n elements	
				0 1		Diagram ea	ach system	on the appr	opnate map. I	Establish III	ap points to	Show changes in system	r cicinonto,	
Name:	STONYCL	Township	Name: Telephone:	Fro Muce	AHY	pipe size, o	or pipe direc	tion. (If unk	nown, outline i	the system	extent.) Con	nplete this form only who	ere specific	
Municir	pality:	of Towers 11.12	Telephone:	814-44	-6551	information	on constru	ction is ava	ilable. Use a s	eparate forr	n for each s	ystem. Identify the point	s within a	
County	Somers		Date:	9/23/03		system cor	nsecutively (ex. G-1.G-2	2,G-3). Start th	e first point	in each add	litional system 20 numb	ers higher.	
County	·NMERS	5.7	Date.		·	For evamn	le G-3 ends	one system	m so G-23 bea	gins the nex	t. See Sam	ole Diagrams & Form or	Reverse.	
				4- (-4)	r	Measure	monto *	one oyeter	11, 00 0 20 20;	1	Design	g	Name of Final	
IV	lap I.D.	Syst	em's Elemen	ts (x)					9.6 . ()	V	Design	Contact Person	Ownership and	
	No.				Pipe		nannel / Swa		Material	Year			1	
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility	
G-	G-													
~						 								
_	G-				-					1				
G-	<u> </u>						<u></u>				· · · · · ·			
_										1				
G-	G-						<u> </u>							
G-	G-													
G-	G-													
													1	
G-	G-				ŀ	1	-						•	
<u>G</u> -	_ 													
	1												1	
G-	G-													
G-	G-													
C	G-										ŀ			
G-	<u> </u>													
_													1	
G-	G-										ļ			
G-	G-													
G-	G-													
<u> </u>	1					 				 		## - ## WAR WAR WAR		
^														
G-	G-													
G-	G-													

G.	G-		i											

^{*} See measurement key on reverse side.

•	NA				FORM H - P	ROPOSED	STORM W	ATER COL	LECTION SYS	STEMS			SHEET_	7of^	<u> </u>
WATER	SHED		FORM CO	MPLETED I	BY				INSTRUCTIO	NS					
, , , , , , , , , ,						On the map for pro	posed storm water	collection systems	, diagram each propose	d system. Indicate a	a map point	to show char	nges in system e	tements, pipe size, pipe direction and	connections
Name:	Sompere ality: Pann	e K	Name: Telephone: Date:	FAT Mu	CCAHY	to existing systems	s. For proposed add	ditions to existing s	stems, diagram only the	e additions and their	r connection	point into the	e existing system	. Complete a separate form for each	proposed.
Municipa	ality: Russ	TOWNSHIP	Telephone:	814-445	-655-1	new system and o	ne for each existing	system having one	e or more proposed add	itions. Identify the p	oints within	a system con	secutively (ex. F	3-1, H-2, H-3). Start the first point in e	ach
County:	Somerse	7	Date:	9/23/05	5									s connect into existing systems, using	
,			1 .		<u> </u>	1			e Sample Diagrams and						
Ma	p I.D.	Svst	em's Element	ts (x)	1	Measure	ments *			Map I.D.	Prop	osed	Design	Contact Person	Name of Final
	No.	,		` ,	Pipe	Open	Channel /	Swale	Material	Nos.**	Const.	Dates	Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	Ď	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
H-	H-														
H-	H-						-, ·····								
T1-	111-														
H-	H-														
1 1-	111-														
H-	H-														
	<u>'''</u>								·····						
H-	H-														
··									****						
H-	H-				ŀ					[
H-	H-														
<u> </u>															
H-	H-														
										1					
H-	H-		ļi												
H-	H-														
H-	H-								~~~~~~						
H-	H-														
			t 1				********								
H-	H-				<u> </u>										
					l										
H-	H-														

H-	H-											l			

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

N/A	FORM I - PRESEN	Γ & PROJECTED DEV	ELOPMENT IN THE FLOOD HAZARD AREA	SHEET <u>8</u> OF <u>9</u>
WATERSHED Name: Stonyclerk Municipality: PAINT TONNISH County: Summerset	FORM COMPLET Name: Telephone: Date:	EDBY	SUSCEP	DEFINITION ALLY DRY LAND AREA THAT HAS BEEN OR IS TABLE TO BEING INUNDATED BY THE R FLOOD.
For County Use: Map ID TYPE OF D No.	EVELOPMENT	Year Built	Contact Person Name, Address and Phone	Comments
] -				
I -				
1 -				
1 -				
1 -				
1 -				
l -				
1 -				
l -				

$\stackrel{\wedge}{\searrow}$	FORM J	- WATE	ER QUA	LITY PI	ROBLE	M ARE	EAS	SHEE	T	7 _0	f_7	
WATERSHED				FOR	м со	MPLI	ETED	BY				
Name: STONYCREE	de .			Name	e:	Į.	R1 /1 8/4-	Muc.	4114			
Municipality: Pawz 7	onusus		····		hone:		8/9-	445.	- 65:	5/		
County: Some PSET				Date:			9/23	3/05				
<u></u>			···	Dato.		}	7/ 6	-/				
SITE	J- / J	J- 2	J- 3	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems												
High Community Tolerence												1
High Temperature					l						-	•
High Turbidity		,										1
Hydrocarbon Pollution												
Low Community Diversity		K						ŀ				
Low Dissolved Oxygen	K-11	, ,										1
Low pH												
Nutrient Enrichment		l										1
Poor Habitat		1						1				
Other/Explanation Line No.		1								1		
Potential Cause(s)					 	 	 	-	+	 	+	1
Agriculture						 		1	\vdash	+-	 	
Construction Site		,										
Erosion		1/1	,							1		
		1/11	-							1		
Lake Discharge	1 1											
STP Outfall							1					
Other/Explanation Line No.					 				 	 		-
Frequency					 	-	├ ─	+	┼	╂	╂	
Year Most Recent Occurence	Lucia	NA	£									
Year First Known Occurence	400	/4 / 8 1			ļ	ļ		ļ	<u> </u>			
Source of Information						<u> </u>			<u> </u>	—		
BWA Streamwatch									1		Ī	
County Water Quality Study								1				
Driveby		املا									ł	
UCCD Complaint Investigation		V/H	market of								1	
		î								1		
Other/Explanation Line No.								<u> </u>				
	EXPLA	VATIO	N LIN	IES								
1 THESE LOCATIONS		N-GA			IP M	// <i></i> /€	5,78	£5,				
2												
3												
4												
5												
6	***************************************							1.1				
7									.,			
8								~		······································		***************************************
9												
·						~~~~~						
10												



ENGINEERING ARCHITECTURE and DESIGN SERVICES



October 12, 2005

OCT 2 2005

Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931

ONSERVA ON DISTRIC

ATTN: Robb Piper

STONYCREEK ACT 167 PLAN STORMWATER MANAGEMENT

Dear Robb,

On behalf of Paint Borough, we have completed the forms for the Stormwater Management Plan received at the Phase II Meeting on June 22, 2005. The completed forms are enclosed with this memo as well as a map of the areas contributing to the Stonycreek Watershed.

If you have any questions or concerns, please contact us at (814) 445-6551.

THE EADS GROUP, INC. (Somerset)

By: Jeffrey S. Haynal, E.I.T.

cc: File # 6035-S-02, w/ enc.

Paint Borough, w/ enc.

Pat Mulcahy Central File

Somserv/Jeff H/Paint BoroAct 167 Cover Letter

	FORM	A - STC	A - STORM WATER PROBLEM AREAS SHEET OF / OF / OF / OF / OF / OF / OF / OF										
WATERSHED							See	Instru	uction	s On			
Name: STONYCREEK		Nam	e:	DENM	ıs Bei	RKEY	ĺ						
Name: Stowyckeck Municipality: Paint Borou	GH	Telep	phone:	Denn 814-4	67-6	904	For	Coun	ty Use	э:			
County: SomeRSET		Date	:		7-200				•				
MAP NO. *	A- /	A- 2	A- 3	A- 4	A-5	A-6	Α-	A	A-	Α-	Α-	A-	
Types of Storm Water Problems				<u> </u>		1	<u> </u>						
Flooding		V	·//	V	5								
Accelerated Erosion			<u> </u>	<u> </u>									
Sedimentation	1/	<u> </u>	<u> </u>		V	V						T	
Landslide			<u> </u>										
Groundwater												T	
Water Pollution													
Other (Explain)										1			
Explanation Line No. (On Back)]						Ī	1		1	
Cause (s)									·		1	 	
Storm Water Volume									1	1		1	
Storm Water Velocity										1		†	
Storm Water Direction			1					<u> </u>		†	-	1	
Water Obstruction			Ì	1	l			1	1	 		 	
Other (Explain)	1	1	1				*** ** *****	1	 	 	1	 	
Explanation Line No. (On Back)		<u> </u>	l	1				 	1	 	 	 	
Frequency				 				 	 	 	 	 	
Year Most Recent Occurred	2004	2004	2004	2.004	2005	2005		 	 	 	╁──	 	
Year First Known Occurred	1977	1977	1977	1977	1977	1977		 	 	 -	 	 	
Regularity								 	 	 	 	 	
More Than 1 Year							······································		 	-	 		
Less Than 1 Year			k						 	-	 	 	
Only During Agnes								 	 	 -	 		
Duration (If Applicable)	—							 	 	 	┼──		
Less Than 1 Day	 	<u> </u>					·· - · · · · · · · · · · · · · · · · ·	 		-	 		
1 Day + (Enter Days)	 	1	<u>-</u>	7	,	7				 	ļ		
Property Damage		<u> </u>		· · · ·				 			 		
Loss of Life/Vital Services								-			 		
Private	1				$\overline{}$	7		 			-		
More Than One Owner	+'/			1,/		<u> </u>		 					
Types of Properties		<u>`</u>	V					 					
Number of Properties	_										 		
Public (List Types)								 			 		
Explanation Line No. (On Back)											 		
Solutions		 					· · · · · · · · · · · · · · · · · · ·				 		
Suggested						 					 		
Explanation Line No. (On Back)								 			 		
Formally Proposed		 									 		
Explanation Line No. (On Back)			<u> </u>					 			 		
* Include Map ID No. if found o	n orwest	hor for	on lindi-						l		L		

\triangle				FORM C - EXIST	ING FLOOD (CONTROL PRO	DJECT	SHEET _	Z_of_/6
WATERSHE	D	FORM CO	MPLETED I	3Y			TYPICAL TYPES OF	FLOOD CONTROL PROJECTS	
Name: S Municipality: County:	FRINT BOROUGH SMERSET	Name: Telephone: Date:	DENNIS BE 814-467- 8-17-20	6984		Channel Excav Channel Realio Rock Riprap	ration / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County L	se:	·							:
Map ID No.	Type of Flood Control Project CHANNEL REALIGNMEN PIPE CHANNEL		Year Constr Built /979	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and Pho	one
C- Z	OCHANNEL REALIGNMENT	7	1960	100	50	75			
C- 3	· PIPE CHANNEL	and the second	1979	60	50	75			
C- 4	. PIPE CHANNEL		1995	50	100	123			
C- 5	· PIPE CHANNEL		1985	60	50	38			
C-			:						
C-	3			1.0 100000					

				FORM D - P	ROPOSED	FLOOD CO	ONTROL P	ROJECT			SHEET 3 OF 16
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS
Name: Municipality: County:	STONYCREEK PAINT BOROUGH SOMERSET	Name: Z Telephone: Date:	DENNIS BE 814-467 8-17-1	-6904		Channel E. Channel R Rock Ripra	ealignment			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining
For County U	lse:										
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	ly Phase Be Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Name, Address, and Phone
D- /	PIPE CHANNEL			Х	2006	2006	100	50	75	A-4	UNKNOWN AT THIS TIME
D- Z	PIPE CHANNEL			×	2006	Z006	100	50	12	A-5	PAINT BOROUGH PROPERTY CSX RAILROAD
D- 3	PIPE CHANNEL			×	2006	Z006	100	55	12		PAINT BOROUGH FERRALL GAS COMPANY
D-											
D-											
D-											
D-											

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond			FORM E - EXISTING STORM WATER CONTROL FACILITIES	SONTROL FACILITIES	SHEET 4 OF 16
WATERSHED		FORM COMPLETED BY	PLETED 8Y		
Name: Municipality: County:	STOWYCREEK PHINT BOROUGH SOMERSET	Name: Telephone: Date:	DENNIS BERKEY 8/4-4/67-6764 8-17-205	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	esigned and / or er runoff
For County Use:	:				
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
E- /	DETENTION BASIN	0661	CHURCH OF GRENGERS HOME	277 HAFFMAN FIVENERE WINDSEK	GOOD CONDITION
ū					
-3					
យ់រ					
ů.					
ů.					
Ē.					
ij					
ш					
Ē.					
ů					
ιù					
យ់		-			
'n					
Ш					
ú					
'n					
ய்					
ıμ					
ம்					
ய்	AND A SECTION OF THE PROPERTY				
ш					
TYPICAL TYPES OF STOR Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	ITIES Roof-Top Stor Semi-Pervious Infiltration Dev	IES Roof-Top Storage Semi-Pervious Paving Inflitration Device (Seepage /Recharge Basin or Underground Tank)	und Tank)	

(•)	N/A			FORM F - PI	ROPOSED S	TORM WATER CONTROL FACILITIES	SHEET <u>5</u> OF <u>/6</u>
WATERSHE Name: Municipality: County:	STWYCKEEK	FORM CO Name: Telephone: Date:	MPLETED E	ВУ		Storm Water Control Facility A natural / man-made device or stru utilized to reduce the rate and / or ve from a site or sites.	octure specifically designed and / or colume of storm water runoff
For County U	Jse:						
Map ID No.	Type of Storm Water Control Facility		Proposed Co Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments
F-							
F							
F-							
F-						AMERICA AND AND AND AND AND AND AND AND AND AN	
F-							
F-							
F-							
F-							
F-							
F-							
F-							
* Enter the	storm water problem area's Map	ID No., if the p TYPICAL T	roposed pro YPES OF S	ject will solve TORM WAT	or reduce at ER CONTRO	ny / all of an identified drainage problem. DL FACILITIES	
	Retention Basin d or Wetland Pondling					Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seep	page / Recharge Basin or Underground Tank)

	Syst	Tem /			FORM G - E	EXISTING S	TORM WA	TER COLLE	ECTION SYST	EMS		SHEETOF_	<u>/b</u>
WATER	SHED		FORM CO	MPLETED	BY					Establish m		show changes in system e	
Name:	STONYCE	EEK	Name: 🛴	DEMMS BEI	rkey							nplete this form only where	
Municipa	lity: Paul	7 BORNGH	Telephone:	814-467.	-6904	information	on constru	iction is ava	ilable. Use a s	eparate for	m for each s	ystem. Identify the points w	ithin a
County:	Somer	SET	Date:	8-17-2	2005	system cor	nsecutively	(ex. G-1,G-2	2,G-3). Start th	ne first point	in each add	litional system 20 numbers	higher.
			<u> </u>	. , ,	r			s one syster	m, so G-23 be	gins the ne	kt. See Sam	ple Diagrams & Form on Re	everse.
	p I.D.	Syst	tem's Elemen	ts (x)	<u> </u>	Measure		I _	Matarial	Year	Design Data	Contact Dorson	Name of Final
	No.		T		Pipe		nannel / Sw		Material	1	Available	Contact Person Name and Phone	Ownership and Maintenance Responsibility
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth	<u> </u>	Constr.	Available	Name and Phone	Iwaintenance Responsibility
G-34	G- 3Z				12"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G- 32	G- √	/			/2"				CPP				
G- 35	G- [∀]	V			/2"				CPP				
	g- U	/			/2"				CPP				
	g. U	/			12"			:	CPP			ujavataja paraka	
	G- U-T	/			/2"				CPF	are a prior or make Continues and		V THE PROPERTY OF THE PARTY OF	
	G- <i>⊤</i>	/			12"				CPP			and a second sec	
G- 29	G- 7	1			/2"				CPP	111111111111111111111111111111111111111		1000	
	g. S	/			12"				CPP	A Vennando			
	G- 7- \$	/			/2 h				CPP	NE LANGE NO.		TOTAL AND AND AND AND AND AND AND AND AND AND	
	G - ≤				/2"				CPP	a make de company of the special state of the speci		And the state of t	
G- 25	G- 40-5	/			12"				CPP	11 i saa moodoo mada a saa			
	G- S	1			12"				CPP			TATAL DE STATE OF STA	
	G- 🗘	/			18"				CPP	17			F)
G- 33		/	ķ		12"			_	CPP	· ·			\mathbb{V}

^{*} See measurement key on reverse side.

\bigcirc	Sysn	'em /-	- CONTINUE	Ę D	FORM G - E	XISTING S	CISTING STORM WATER COLLECTION SYSTEMS SHEET 7 OF 16								
WATERS			FORM CO		BY				INSTRUCTIO						
Name: Municipa		EEK T BOROUGH ET			rkey - 6904	pipe size, o information system cor	or pipe direct on constru	ction. (If unki ction is avai (ex. G-1,G-2	nown, outline t lable. Use a se 2,G-3). Start th	the system of eparate form e first point	extent.) Con n for each s in each add	show changes in system on pplete this form only where ystem. Identify the points litional system 20 numbers ole Diagrams & Form on F	e specific within a s higher.		
Ma	p I.D.	Syst	L em's Element	ts (x)		Measurer		o one cyclon	11, 00 0 20 008		Design		Name of Final		
	No.	0,00	0,770	(,	Pipe		nannel / Sw	ale	Material	Year	Data	Contact Person	Ownership and		
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility		
G- Q	G- P	/			18"				CPP	/997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH		
G- 23	G- Q-P	✓			/2"				CPP						
	G- 0-P	1			12"				CPP						
	G- 0	/			18"				C PP						
G- 22	G- [©]	/			12"				C PP						
	G- N	/			18"				C PP						
	G- 0-N	/			12"				CPP						
,	G- M	/	111111111111111111111111111111111111111		18"				CPP						
G- /8	G-1/-M	/			/2"				CPP				7		
	G- <i>N</i> -M	/			/2 "				CPP				300		
G- [№]	G- L	/			18"				CPP			Color			
	G- M-L	1			12"				CPP	of promote Andreas		4 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
G-/6	G-M-L	/			/2"				CPP			unavaya paga a sa sa sa sa sa sa sa sa sa sa sa sa			
	G-M-L	/			12"				CPP	7		7	57		
G- 6		/	3		24"				RCCP	V			W		

^{*} See measurement key on reverse side.

\bigcirc	System 1 - CONTINUED FORM G - EXISTING STORM WATER COLLECTION SYSTEMS SHEET 8 OF 16													
WATERS	SHED		FORM COI	MPLETED I	BY				INSTRUCTIO					
				,		Diagram ea	ch system	on the appro	opriate map. E	Establish ma	ap points to	show changes in system of	elements,	
Name:	STONYCRE	EF	Name:	DENNIS BER	rkev	pipe size, c	r pipe direc	tion. (If unkr	nown, outline t	he system	extent.) Con	nplete this form only where	specific	
Municina	lity: 24	7 BORGHGH	Telephone:	814-467-	6904	information	on constru	ction is avail	lable. Use a se	eparate for	n for each s	ystem. Identify the points v	vithin a	
	Somers		Date:	8-/7-2		system con	secutively (ex. G-1,G-2	G-3). Start th	e first point	in each add	litional system 20 numbers	higher.	
	دعاء ۱۱ الرامي	- /		<u> </u>	<u> </u>	For example	e. G-3 ends	s one systen	n, so G-23 bea	gins the nex	t. See Sam	ple Diagrams & Form on R	everse.	
Ma	p I.D.	Syst	em's Element	s (x)		Measurer					Design		Name of Final	
	No.	3,51		. ()	Pipe		annel / Swa	ale	Material	Year	Data	Contact Person	Ownership and	
From	To	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility	
G- K		/ 1,50	орол опагатог		24"			1	RCCP	1997		DENNIS BERKEY 814-467-6904	PAMI BOROUGH	
G- 41		/			12"				CPP					
G- /0		/			/2"				CPP					
G- /3		/			12"				CPP			THE PARTY OF THE P		
G- 14		/			12"				CPP			escillation dans		
1	G- I	/			12"				CPP			100		
G- /2_	G- I	/			12"	:			CPP					
	G- ^μ	/			12"				CPP			Annual management		
G- H	G- G	/			15"				CPP					
1	G- 4-G	✓			/2"				CPP	Anna Parameter				
	G- H-G	✓			12"		. ,		CPP	V personal representation of the second seco		Total and the second se	07 22 22 22 22 22 22 22 22 22 22 22 22 22	
	G- B	/			24"				RCCP	A desirant lateral and a second				
I	G- ^{J=}	/			/2"				CPP	Constitution of the Consti		THE PROPERTY OF THE PROPERTY O	, and a second s	
- 1	G- F	/			/2"				CPP	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		7	57	
G- F	G- E	/	ÿ		12"				CPP	- Annual Control		Y	\	
See me	easuremer	nt key on reve	rse side.											

Manicipality	\bigcirc	System 1-CONTINUED FORM G-EXISTING STORM WATER COLLECTION SYSTEMS SHEET 9 OF 16																
Name: Struck Resk Name: Dewin Sector Telephone: \$\frac{\text{T} \text{ Name: } \text{ Pict of Pick } \text{ Pick of Pick of Pick } \text{ Pick of Pick of Pick of Pick of Pick } Pick of Pick	WATER	SHED		FORM CO	MPLETED E													
Major D. No. System's Elements (x) Measurements Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe Channel / Swale Pipe P	Municipa	lity: AW	T BORGUGH	Telephone:	814-467-	KEY 6904 1005	pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher.											
Pipe Channel / Swale D TW B Depth Constr. Available Available				<u> </u>	. , ,				s one syster	n, so G-23 beg	ins the nex		ole Diagrams & Form on Re					
From To Pipe Open Channel Swale D TW B Depth Constr. Available Name and Phone Maintenance Responsibility			Syst	em's Element	s (x)	Pine			ale	Material	Year		Contact Person	1				
G. E. G. D. V. 15" CPP G. 3 G. D. V. 12" CPP G. 4 G. D. V. 12" CPP G. D. G. C. V. 15" CPP G. F. G. C. V. 12" CPP G. C. G. B. V. 24" RCCP G. G. G. G. G. G. G. G. G. G. G. G. G. G			Pipe	Open Channel	Swale					Waterial			Name and Phone	1				
G-3 G-D /	G- 5	G- <i>E</i>	/			12"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH				
G- 4 G- D		G- D	/		:	15"				CPF								
G. D. G. C. V. 1/5" CPP G. F. G. C. V. 1/2" CPP G. 42 G. C. V. 1/2" CPP G. G. G. B. V. 24" RCCP G. G. G. G. G. G. G. G. G. G. G. G. G. G	G- 3	G- D	/			/2"				CPP								
G. F. G. C. / /2" CPP G. 42 G. C. / /2" CPP G. G. B. / 24" RCCP G. B. G. G. G. G. G. G. G. G. G. G. G. G. G.	G- ⁴ /	G- D	/			12"				CPP								
G- 42 G- C /	G - ⊅	G- C	/			<i>15"</i>				CPP								
G-C G-B / 24" RCCP	G-F	G- C	/			12"				CPF								
G- G- B	G- 42	G- C	/			12"				CPP								
G- G- G- G- G- G- G- G- G- G- G- G- G- G	G- C	G- B	/			24"				RCCP	- 17			17				
G- G- G- G- G- G- G- G- G- G- G- G- G- G	G-B	G- END	/			36"				RCCP	\mathbb{V}		<u>\</u>	V				
G- G- G- G	G-	G-	***************************************															
G- G- G G G G G G G-	G-	<u>G-</u>				<u> </u>												
G- G-	G-	G-				<u>.</u>												
	G-	G-											- Hillian					
G- G- j	G-	G-											÷					
* See measurement key on reverse side.			13	11														

\bigcirc	Sy s	TEM Z	7		FORM G - E	EXISTING S	KISTING STORM WATER COLLECTION SYSTEMS SHEET 10 OF 16									
WATER Name: Municipa County:		EEK T BORGUGH	Telephone:	DENNIS BEA	ekey - 6904	INSTRUCTIONS Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.										
Ma	ip I.D. No.	Syst] tem's Elemen	ts (x)	Pipe	Measurer			n, so G-23 be Material	year Constr.	t. See Sam Design Data Available	Contact Person	Name of Final Ownership and Maintenance Responsibility			
From G- 62	To G- 63	Pipe	Open Channel	Swale	D 8"	1 00	Б	Бери	CPP	1997	Available	DENNIS BERKEY 814-467-6904	PAINT BOROUGH			
	G- 64	V			8"				CPP							
G- 64		/			8"				CPP							
G- 65	G- 66	/			8"				CPP							
G-66					8 1				CPP							
G-68	2				8"				CPP			17				
	8-C-5				3"				CPP	W.		V	V			
G-	G-															
G-	G- G-															
G- G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-		,													

^{*} See measurement key on reverse side.

	Sys	TEM C	3		FORM G - E	EXISTING STORM WATER COLLECTION SYSTEMS SHEET//_ OF/6										
WATER			FORM CO	MPLETED I	3Y				INSTRUCTIO							
Mamai	C		Namo: T	Dennie P.		Diagram ea	ach system	on the appro	opriate map. E	Establish ma	ap points to extent) Con	show changes in system e nplete this form only where	lements, specific			
Municipa	STANKER	T BORGUGH	Tolophopo:	ENNIS DER	KEY	information	on constru	ction is avai	lahle Hseas	enarate forr	n for each s	ystem. Identify the points w	ithin a			
Country	Somer.	7 DOKEUGH	Date:	8-17-2	'00 E	system con	secutively ('ex G-1 G-2	G-3) Start th	e first point	in each add	litional system 20 numbers	higher.			
County.	OINE(L	3 ∈ /	Date.	0// 2		For example	e G-3 ends	one syster	n. so G-23 bed	ins the nex	t. See Sam	ple Diagrams & Form on Re	everse.			
Ma	p I.D.	Syst	em's Elemen	s (x)		Measurer		1	.,		Design		Name of Final			
	No.	, , ,		()	Pipe		annel / Swa	ale	Material	Year	Data	Contact Person	Ownership and			
From	То	Pipe	Open Channel	Swale	Ď	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility			
	G- 89	<i>V</i>	·		8"			•	CPP	1997		DEMNIS BERKEY 814-467-6904	PAINT BOROUGH			
	G- 96	/			12"				CPP	1997						
G- %	G- 90				8"				CPP	1997						
G- ⁹ °	G- 79	V			15"				CPP	1997						
G- 95	G- 92	/			8"				CPP	1997						
G- 92	G- 9 <i>3</i>				8"				CPP	1997						
G-93	G-94				12"				C.P.P	1997		47				
G- 14	g. с-3	/			15"				CPP	1997		V	V			
G-	G-															
G-	G-															
G-	G-															
	G-															
	G-															
	G-							:			a					
G-	G-		J													

^{*} See measurement key on reverse side.

PAINT BOROUGH - FORM G

\bigcirc	S	ystem 4	4		FORM G - E	EXISTING STORM WATER COLLECTION SYSTEMS SHEETOFOF										
WATER	SHED		FORM COM			INSTRUCTIONS Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a										
Municipa	ality: AW	T BORNUGH	Telephone:	814-467-	6904	information	on constru	ction is avai	ilable. Use a se	eparate for	n for each s	ystem. Identify the points wi	thin a			
County:	Somer	ET	Date:	8-17-2	2005	system con	secutively (ex. G-1,G-2	2,G-3). Start th	e first point	in each add	itional system 20 numbers l	nigher.			
,		<u></u>	•			For example	le, G-3 ends	one syster	n, so G-23 beg	gins the nex	t. See Sam	ole Diagrams & Form on Re	verse.			
Ma	ap I.D.	Syst	em's Element	s (x)		Measurer	nents *				Design		Name of Final			
	No.	Í			Pipe	Cl	nannel / Swa	ale	Material	Year	Data	Contact Person	Ownership and			
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility			
*****	G- 115	/			8"				CPP	1999		DENNIS BERKEY 814-467-6904	PAINT BOROUGH			
	Q- C-4	/			8"				CPP	1999		1	V			
G-	G-															
G-	G-															
G-	G-	·														
G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-															
G-	G-											a				
	G-		2													

^{*} See measurement key on reverse side.

															, , , , , , , , , , , , , , , , , , ,	
$\langle \bullet \rangle$	NA	ļ			FORM H - PI	ROPOSED	STORM W	ATER COLI	ECTION SYS	STEMS		,	SHEET	14of/(<u></u>	
			FORM COM	ADI ETED E	v I				INSTRUCTIO	NS			······································			
WATER	SHED		FURNICUN	/IPLE I EU C		On the man for are	nneed storm water	collection systems.	diagram each propos	ed system. Indicate a	map point	to show char	nges in system etc	aments, pipe size, pipe direction an	nd connections	
			Namo:	· mic R	-avel	to axistina systems	For proposed add	ditions to existing sy	stems, diagram only th	ne additions and their	connection	point into the	e existing system.	Complete a separate form for eac	n proposed.	
Name:	STONYCR	EEK	Name: D	SIN AIL	1-904	now exetem and or	e for each existing	system having one	or more proposed ad	ditions Identify the po	oints within	a system con	isecutively (ex. H-	1, H-2, H-3). Start the first point in	eacn	
Municipa	ality: PAINT Some RS	Bo2046.14	Date:	8-17-2	2005	additional system 2	O numbers higher ((if H-3 ends one sy	stem, begin the next w	ith H-23). Be sure to	show the p	oint where pr	roposed additions	connect into existing systems, using	ng the map	
County:	Somers	7	Date.	C 1 / 2		noint number from	the existing system	n form and map. Se	e Sample Diagrams ar	nd Form on Reverse.						
8.4.		Sve	L tem's Element	s (x)	l	Measurer				Map I.D.	Prop		Design	Contact Person	Name of Final	
IVI	ap I.D. No.	Jys	(CITS LIGHTON)	.5 (X)	Pipe		Channel / S	Swale	Material			Dates	Data	Name and	Ownership and	
From	To	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility	
From	10	ripe	Open chamici	011010												
H-	H-															
1 1-	1 -		 													
H-	_{H-}									<u> </u>						_
7.7	† `		<u> </u>													
H-	H-										ļ					
H-	H-									_ 	ļ					
H-	H-									_	 					
H-	H-					<u></u>		<u> </u>		- 						
							ļ									
H	H					<u> </u>	<u> </u>	ļ	 		 					
				,	.					1						
H	H-					<u></u>	 	ļ			 					
]	1											1				
H	H-	 					 	 	<u> </u>							
	ļ.,															
H	H				 		 	†	1							
l. .	LI								l		<u> </u>					
H	H-					<u> </u>									****	
 	L	1												<u> </u>		
H-	H-	 	- 		t									1		
 H-	H-								1		<u> </u>	ļ	<u> </u>			
1 1-	111"	 			1											
H-	H-								<u> </u>		 	<u> </u>		<u></u>		_
	- ` 	 					1									
_{II} _	н.		3									<u></u>	<u></u>	l . '		

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

	MA	FORM I - PRESI	ENT & PROJECTED DE	VELOPMENT IN THE FLOOD HAZARD AREA	SHEETOF
Municipal	HED Start Rorolly Somerset	FORM COMPL Name: Telephone: Date:	ETED BY DENNIS BERKEY 814-467-6904 8-17-2005	FLOOD HAZARD AREA: A NORMA SUSCEPT 100-YEAF	DEFINITION ALLY DRY LAND AREA THAT HAS BEEN OR IS TABLE TO BEING INUNDATED BY THE R FLOOD.
For Coun					Comments
Map ID No.	TYPE OF DEVEL	OPMENT	Year Built	Contact Person Name, Address and Phone	Comments
1 -					
-					
1 -					
) -					
1 -					
I -					
1 -					

-	44479				

₩ N/A	FORM	J - WA٦	ER QUA	ALITY PI	ROBLEI	M ARE	AS	SHEET	- /(, <u>2</u> OF	. //4	2
WATERSHED				FOR	м со	MPLE	ETED	BY				
Name: Stony Creek Municipality: Print Breouling County: Someaset	r-f-			Name Telep Date:	e: hone:		DENNU 314-4 8-17	(67 - - 20	090 05	14		
SITE	J-	J-	J-	J-	J-	J-	J-	IJ-	J-	J-	IJ-	J-
Types of Water Quality Problems	 	<u> </u>	<u> </u>	Ĭ -	-		١	ľ	۳	Ť	ř –	Ĭ
High Community Tolerence												
High Temperature					•			ļ		Ì		
High Turbidity						•						
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen		İ]	Ì							
Low pH									Ì]
Nutrient Enrichment										ļ		
Poor Habitat											Ì	
Other/Explanation Line No.								ļ		Ì		
Potential Cause(s)												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
Frequency												
Year Most Recent Occurence												
Year First Known Occurence												
Source of Information												
BWA Streamwatch												
County Water Quality Study												1
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												
Other Englishment Line 110.	EXPLA	NATI		IES	1			LJ				
1			O11 L111	<u> </u>								
2						······						
3					*****						-	
4				····							······································	
5		······································	****							·····		
6	•											
7							······································				************	
8		***********										
9												
10			·									

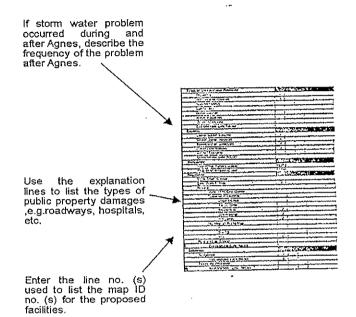
	FORM	A - STC	DRM WA	TER P	ROBLE	M AREA	s				SHI	EET_	1	0	F	<i>j</i>
WATERSHED		FO			ETED I		See Instructions On Back									
Name:		Nam	e:	<u> Dan</u>	p Sl.	IMPC	<u> </u>									
Municipality: Date Two County: Somerset		Tele	phone:	467	-57	5/	For (Count	y Use	:						
County: <u>Somerset</u>		Date	:	6-	-57	23	-									1
MAP NO. *	A- /	A-	A-	IA-	Α-	Α-	A-	Α-	A-	A-	A-	A-	IA-	Α-	A-	IA-
Types of Storm Water Problems		:											<u> </u>			1
Flooding	17	1		1			 	1	1	1						
Accelerated Erosion	1/		 	 				 		 	1	1	 		1	1
Sedimentation	+			 			-	 	1	 			<u> </u>	1		
Landslide	+	\vdash	1	 				 	1	1	 		 	†	1	
Groundwater	17	\vdash	+	+			 	 		╅	 	1	 	i		+
Water Pollution	+			+			 	 	 	+	<u> </u>	1	 	 	1	+
Other (Explain)		 	-	1			 	 		-	 	+		1		+
Explanation Line No.		 	+-	 			 	 	-	 	 		 	†	+	+
	-	+	+	+	+	+	 	 	+	 	 	+	 	†	+	1
Cause (s) Storm Water Volume	+ -		+	+	+		 	 	 	 	 	+	 	\vdash	+	+
	1 -	 	+	+	+		 	 	+	 	 	+	 	\vdash	+	+
Storm Water Velocity		 	+	+	 	-	 	 	+	┿	+	-	-	-	-	┼─┤
Storm Water Direction			 	-				 			-	+	├	├		
Water Obstruction		-	 	-			ļ	 	 		-	-	<u> </u>	-	 	↓
Other (Explain)		<u> </u>	_	-		_	ļ	ļ	ļ			1	<u> </u>	 		
Explanation Line No.		<u> </u>	<u> </u>				ļ	<u> </u>		ļ	 	 	<u> </u>	ļ		
Frequency							<u> </u>	ļ				ļ		ļ		
Year Most Recent Occurred	2003							ļ					<u> </u>	<u> </u>		
Year First Known Occurred	1950							<u> </u>				<u> </u>	<u> </u>	1		
Regularity								ĺ	<u> </u>							
More Than 1 Year	4															
Less Than 1 Year																
Only During Agnes																
Duration (If Applicable)											1					
Less Than 1 Day							1	1								
1 Day + (Enter Days) / 5	1	1				i		1	1		1					
Property Damage										1	1					1
Loss of Life/Vital Services						1	†	1		†		1				1
Private	1	1	-		1		 	1	1	†	 	1		1		1
More Than One Owner	+	 	1	+		1	1	 	1		 	1	-	 		1
Types of Properties		·		+-	<u> </u>		_	1	 		 	†	 	-		1
Number of Properties	 , , 	·	+	+	 		+	 		+	+	1	 	 		1
Public (List Types)		 	+	+	+	+	+	 		 	+-	+	 	1	+	1
Explanation Line No.		·		+	+	+	+	 		+	+-	 	 	 		1
		 	+	+	_	-	 	┼		+	+	+	 	+	1	+
Suggested	 				-		+	 	+	-	+	+	 	+		+
Suggested Continue No.	- 				+	+	 	├		 	-	_	 	 	 	+
Explanation Line No.	+-′	 	+	-			+	 	+	-	 	+	 		-	+
Formally Proposed	-	 		+	+-		+	-		 	 	+	 	┾		+
Explanation Line No. * Include Map ID No. if found of		Ala e C					<u> </u>	<u> </u>			<u></u>		<u> </u>			
EXPLAINATION LINE(S). 1) Raise elevation 07 2) 3) 4) 5) 6) 7)	1 sur	loun.	ding	/.	and	·- (]/c A (A/	n '	Brie	dge	rt I b	5 th T ur 14	ntc (5. 777 up	z) ~ ~	<i>T</i> > .	74 -
5)																
6)																
7)																
8)																

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table:

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

	EXPLANATION LINES (continued)
1	



August 12, 2005

Project No. 00-2254.68

Mr. Robb Piper Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931

TRANSMITTAL STONYCREEK RIVER STORMWATER PLAN LOWER YODER TOWNSHIP, CAMBRIA COUNTY

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from Lower Yoder Township, Cambria County.

Sincerely yours,

Paul C. Rizzo Associates, Inc.

Mark W. Lazzari

Watershed/Land Use Planner

MWL/RJF/ljr Enclosure

pc: Lower Yoder Township Supervisors

L001-2254.068/00

A Carlot A process

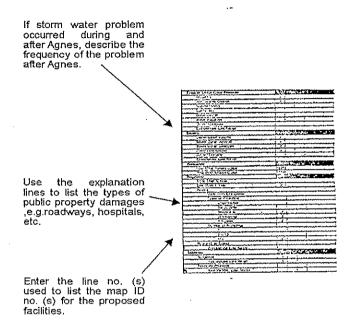
									- 2 C	5003						
	FORM /	4 - STOI	RM WA	TER PR	OBLEM	AREA	S	JUN	, j V	Con	SHE	EET_	į	O	F	/
WATERSHED	·····	FOR	M CO	MPLE	TED B	Y				ut For On E	m,	w I	·			
Name:		Name	: (hone:	ary.	Stiff	ler	See	mstru	Cuons	On E	аск					
Municipality: Lower Vorlet	Tup	Telep	hone:	- 13	36-2.	500	For (County	y Use	:						
Municipality: Jower Vodu (Ambrios		Date:		lo-	- // · D.	Š										
MAP NO. *	A-,,		A-	A-	A-	A-	A-	Α-	Α-	A-	Α-	Α-	A-	A-	Α-	Α-
Types of Storm Water Problems	NA															
Flooding	1'								<u> </u>							
Accelerated Erosion																<u> </u>
Sedimentation						<u> </u>	<u> </u>	ļ								
Landslide		<u> </u>	·							<u> </u>	<u> </u>	ļ			<u> </u>	<u> </u>
Groundwater		<u> </u>											<u> </u>			<u> </u>
Water Pollution								<u></u>		<u> </u>			<u> </u>	<u> </u>	<u> </u>	
Other (Explain)		<u> </u>				,	<u> </u>	<u> </u>		<u> </u>			<u> </u>			
Explanation Line No.																
Cause (s)												ļ				
Storm Water Volume									<u> </u>			ļ				
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)												1				T
Explanation Line No.																
Frequency							}	1								
Year Most Recent Occurred										1						
Year First Known Occurred			-		<u> </u>			<u> </u>								
Regularity		 						<u> </u>								
More Than 1 Year								İ					—			—
Less Than 1 Year								<u> </u>						1		1
Only During Agnes							 		<u> </u>			†	1		1	†
Duration (If Applicable)	- 	 					 			\vdash	<u> </u>		 	1	1	
Less Than 1 Day		†	ļ				 		ļ				†	 		
1 Day + (Enter Days)							 		1			 	1		†	
Property Damage			 				 	 	 			 	 		\vdash	
Loss of Life/Vital Services		<u> </u>				<u> </u>		\vdash	\vdash	-	 	 	 	 	+	
Private							 	 		<u> </u>				+-	1	
More Than One Owner		 	 	<u> </u>		-		\vdash	 	 		 	 	1		
Types of Properties		 		ļ	 	 	 	 	-	 	 	 	\vdash	+-	╁	
Number of Properties		 	 	<u> </u>	 	 	 	\vdash	 	 	 	 	\vdash	+	+	
Public (List Types)		 	 		 	 		 	 	 	 	 	 	+	 	
Explanation Line No.		 	 	 	 	 		\vdash	 	 	 	+-	\vdash	+	†—	\vdash
		 						\vdash	 	 	 	+	\vdash	+	+	
Suggested		<u> </u>	-		 	-		┼	 	 	 	 	\vdash	+	+	
Suggested Evaluation Line No.					 		 	├	 	 	 	 	 	+-	+	
Explanation Line No.		<u> </u>	 			<u> </u>		 		 	 	┼─	\vdash	+	 	
Formally Proposed		 		ļ <u> </u>				 	-	 	 	 	 	+-	 	
Explanation Line No. * Include Map ID No. if found of		<u> </u>	L	<u> </u>	L	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>		1	<u> </u>
EXPLAINATION LINE(S) 1) 2) 3) 4) 5) 6) 7) 8)	ni any o	GIGI IQ		ng pio	<u> </u>	TOOM						.,				
3)								.,					,			
4)																
5)																
6)															 	
7)					····											
9)			•••••													

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff,

Groundwater

Water in the ground below the water table:

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

	EXPLANATION LINES (continued)										
		_									

		_									

	FORM	VIA-ST	ORM W	ATER F	PROBLE	M AREA	AS S	HEET	1	OF			
WATERSHED					ETED		Before Filling Out Form, See Instructions On Back						
Name: Little Mill Ca Municipality: Lower Voder T County: Cambria	eek wp.	Nam Tele Date	ne: phone e:	<u>Mar</u> : 514	KW.1 536-	.9229vi -6767	For County Use:						
MAP NO. *	Α-	A-	A-	A-	IA-	IA-	A-	A-	A-	A-	A-	A-	
Types of Storm Water Problems				1	<u> </u>	<u> </u>		T	1	1	 	 	
Flooding		—			1		1		1	1-	_	- 	
Accelerated Erosion						1			1	1	- 	1	
Sedimentation				1		1	1	1		 	1	———	
Landslide			1	1	_	1	1	1		1	†		
Groundwater					<u> </u>						†	1	
Water Pollution								1	1	1		1	
Other (Explain)		N						-		1		1	
Explanation Line No. (On Back)									1	1			
Cause (s)		1	N		1			1			—	1	
Storm Water Volume			No.	1					 	<u> </u>		1	
Storm Water Velocity		1							1	1		1	
Storm Water Direction				The same of							 	1	
Water Obstruction		1			1					<u> </u>		1	
Other (Explain)					Ì	1	1			1			
Explanation Line No. (On Back)									1	1			
Frequency						1							
Year Most Recent Occurred			,							1			
Year First Known Occurred							Î		1	1			
Regularity													
More Than 1 Year										1			
Less Than 1 Year													
Only During Agnes											-		
Duration (if Applicable)							} • • • • • • • • • • • • • • • • • • •			1			
Less Than 1 Day													
1 Day + (Enter Days)													
Property Damage							,_,,]				
Loss of Life/Vital Services													
Private													
More Than One Owner													
Types of Properties													
Number of Properties													
Public (List Types)													
Explanation Line No. (On Back)		<u> </u>											
Solutions													
Suggested													
Explanation Line No. (On Back)													
Formally Proposed				<u> </u>									
Explanation Line No. (On Back)													
' Include Map ID No. if found o	n anv o	ther fo	rm listi	na pro	nosed	facilitie	26						

				FORM C - EXIS	TING FLOOD	CONTROL PR	OJECT	SHEET	OF						
WATERSHEE	D	FORM COM	MPLETED	ВҮ	TYPICAL TYPES OF FLOOD CONTROL PROJECTS										
Name: Municipality: County:	Little Mill Creek Lower Yoder Tup. Cambria	Name: Telephone: Date:	Mark h 814-53	1.L92841) 16-6767	1	Channel Exca Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining						
For County Us	se:	<u></u>													
Map ID No.	Type of Flood Control Proje	ct	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	od Discharge C.F.S.		Owner Name, Address, and P	hone						
C-															
C-			g e-	C) and C)	\										
C-					A	14444 MATERIA (1									
C-		***************************************													
C-															
C-	AMILYN II WAR														
C-	ž					•••									

Â				FORM D - P	ROPOSED	FLOOD CO	ONTROL P	ROJECT		SHEETOF		
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS	
Name: Municipality: County:	Little Mill Creek Lower Yoder Tup. Cambria	Name: Telephone: Date:		Channel E: Channel R Rock Ripra	ealignment			Levee Gabions Pipe Chan				
For County U	Jse:	f										
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Be Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.		Map ID No. Form A*	Owner Name, Address, and Phone	
D-												
D-			1		٨			**************************************	1			
D-						1						
D-												
D-												
D-												
D-												

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond		FORM E - EXISTING STORM WATER CONTROL FACILITIES	CONTROL FACILITIES	SHEET OF
WATERSHED	FORM COMPLETED BY	PLETED BY		
Name: Little Mill Creek Municipality: Lower Yoder Two.	Name: Telephone:	Mark W. Lazzavi	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff	esigned and / or ter runoff
Combria	Date:		from a site or sites.	
For County Use:				
Map ID No. Type of Storm Water Control Facility Year Built	acility Year Built	Contact Person	Address and Phone	Comments
- 				
Ē.				
<u>'</u>				
<u>.</u>				
<u> </u>				
E-				
<u>-</u>			4	
-3				
Ш				
<u> </u>				
للأ				
Π̈́				
<u> </u>				
<u>i</u>				
- <u>-</u>				
ù				
Ē-				
ù				
Ē				
——————————————————————————————————————				
Ę-				
E				
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	FACILITIES Roof-Top Sto Semi-Perviou Inflitration De	IES Roof-Top Storage Semi-Pervious Paving Inflitration Device (Seepage /Recharge Basin or Underground Tank)	ound Tank)	

•				FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES	SHEET OF							
WATERSHE Name: Municipality: County:	Little Mill Creek Lower Yoder twp. Cambria		MPLETED E Mark l 1914–536	3Y N. Lazzari 6767	DEFINITION Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.									
For County U	Jse:													
Map ID No.	Type of Storm Water Control Facility		Proposed Co Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments							
F-				•••••										
F-					_	Λ								
F-						1								
F-						N .								
F-														
F- F-					V									
F-														
F-														
F-														
* Enter the s	I torm water problem area's Map II	D No., if the pro	pposed proje PES OF S	L ect will solve TORM WATE	or reduce ar ER CONTRO	ny / all of an identified drainage problem. L FACILITIES								
Detention / R Natural Pond Parking Lot F						Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage	e / Recharge Basin or Underground Tank)							

\bigcirc					FORM G - E	- EXISTING STORM WATER COLLECTION SYSTEMS SHEET OF OF									
WATER	SHED		FORM CO	MPLETED	BY				INSTRUCTIO	NS					
						Diagram e	ach system	on the appr	opriate map.	Establish m	ap points to	show changes in system	elements,		
Name:	1 He M	lill Creek r YoderTwp	Name:	MarkW	·Lazzori	pipe size, o	or pipe direc	tion. (If unk	nown, outline	the system	extent.) Con	nplete this form only whe	e specific		
Municipa	ality: ا	r Yodertwo	Telephone:	814-53	6-6767	information	n on constru	ction is ava	ilable. Use a s	eparate for	m for each s	system. Identify the points	within a		
County:	Cambri	1 G	Date:			system cor	nsecutively	(ex. G-1,G-	2,G-3). Start th	e first point	in each add	ditional system 20 number	s higher.		
•								s one syste	m, so G-23 be	gins the ne		ple Diagrams & Form on	Reverse.		
Ma	ap I.D.	Syst	em's Elemen	ts (x)		Measure					Design	_	Name of Final		
	No.				Pipe		hannel / Sw		Material	Year	Data	Contact Person	Ownership and		
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility		
G-	G-														
G-	G-														
G-	G-														
G-	G-														
G-	G-					and the same of th	/								
G-	G-				_	The same of the sa		Washington and the second							
G-	G-			· · · · · · · · · · · · · · · · · · ·				+							
G-	G-				and the second										
G-	G-							9							
G-	G-														
G-	G-														
G-	G-														
G-	G-														
G-	G-											2			
G	G		,												

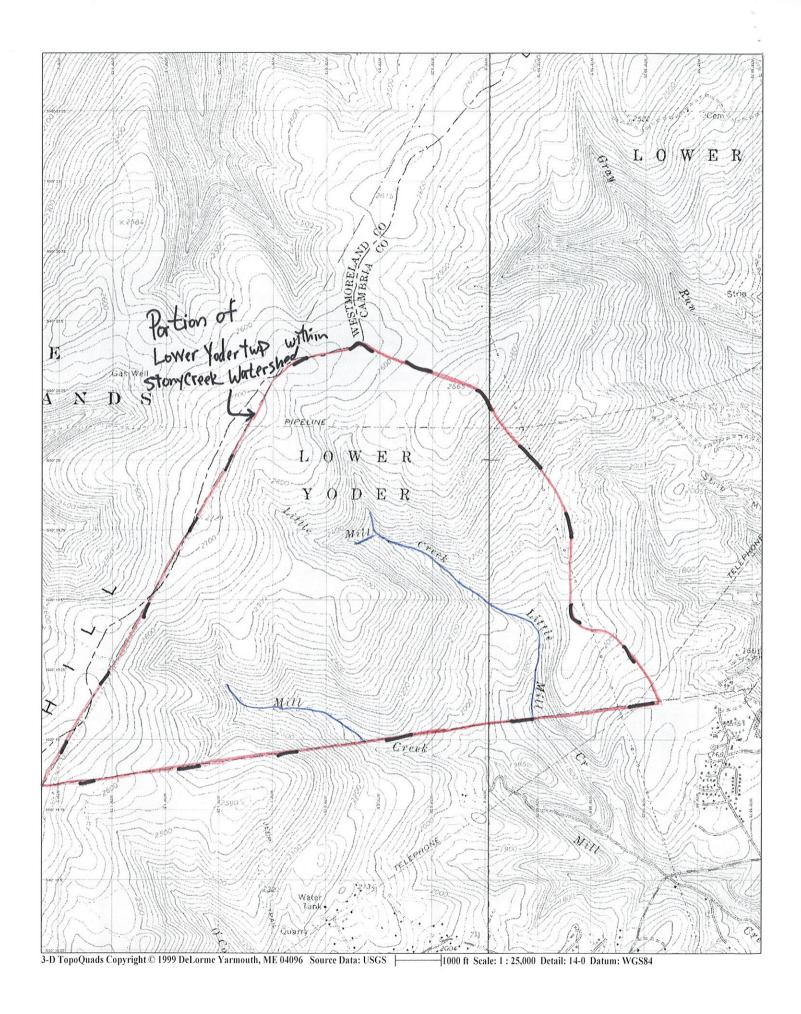
^{*} See measurement key on reverse side.

					FORM H - P	PROPOSED STORM WATER COLLECTION SYSTEMS SHEET OF									
WATER	SHED		FORM CO	MPLETED I	BY				INSTRUCTION	ONS					
			1			On the map for pro	posed storm wate	r callection systems	s, diagram each propos	sed system. Indicate	a map point	to show char	nges in system elem	ents, pipe size, pipe direction	and connections
Name:	Little Wil	1 Creek	Name: Telephone: Date:	Mark W.	Lazzari	to existing systems	. For proposed ad	ditions to existing s	ystems, diagram only t	he additions and the	ir connection	point into the	e existing system. Co	omplete a separate form for ea	ach proposed.
Municipa	ality: Journ	Vodoctup	Telephone:	814-536	0-6767	new system and or	ne for each existin	g system having on	e or more proposed ad	ditions. Identify the p	ooints within	a system con	secutively (ex. H-1,	H-2, H-3). Start the first point	in each
County:	Cambo	10	Date:			additional system 2	0 numbers higher	(if H-3 ends one sy	stem, begin the next w	ith H-23). Be sure to	o show the p	oint where pr	oposed additions co	nnect into existing systems, u	sing the map
,		· · · · · · · · · · · · · · · · · · ·	1			point number from	the existing system	m form and map. Se	ee Sample Diagrams a	nd Form on Reverse					
Ma	ap I.D.	Sys	tem's Element	ts (x)	<u> </u>	Measurer	nents *			Map I.D.	Prop	osed	Design	Contact Person	Name of Final
	No.	,			Pipe	Open	Channel /	Swale	Material	Nos.**	Const.	Dates	Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
		,													
H-	H-		<u> </u>				····								
H-	H-											İ			
117-	11 17					<u> </u>									
H-	H-														
<u>H-</u>	Н-														
H-	H-							Λ						· · · · · · · · · · · · · · · · · · ·	
						٨		/\							
H-	H-		*			-A				_					
H-	H-						ŧ	1							
							1								
H	H-	······································				1 1					 				
H-	H-											İ			
1 1		·····	1						******						
H-	H-											ļ			
												1			
H-	H-														
H-	H-														
H	H										 				
H-	H-														
H-	H-		2								<u> </u>				

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

	FORM I - PRESENT &	PROJECTED DEVEL	OPMENT IN THE FLOOD HAZARD AREA	SHEETOF									
WATERSHED Name: Little Mill Creek Municipality: Lower Yoder two County: Zambria	FORM COMPLETED Name: Telephone: Date:	BY Mark W. Lazzari 314 536-6767	DEFINITION FLOOD HAZARD AREA: A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS SUSCEPTABLE TO BEING INUNDATED BY THE 100-YEAR FLOOD.										
For County Use: Map ID TYPE OF DEVELOR No.	OPMENT	Year Built	Contact Person Name, Address and Phone	Comments									
1 -			. / /										
I -			MA										
-													
1 -													

\Rightarrow	FORM.	J - WAT	ER QUA	ALITY PI	ROBLE	VI ARE	AS S	SHEET	1	OF	1	
WATERSHED				FOR	МСО	MPLE	TED	BY	····			
Name: Little Mill Municipality: Lower Yoder County: Cambri 9	Cree Twp	<u> </u>		Name Telep Date:	: hone:	M. 814	ark - 53	W.	L 167	17Zav	^ <i>j</i>	
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems High Community Tolerence High Temperature High Turbidity Hydrocarbon Pollution Low Community Diversity Low Dissolved Oxygen Low pH Nutrient Enrichment Poor Habitat Other/Explanation Line No. Potential Cause(s) Agriculture Construction Site Erosion Lake Discharge STP Outfall Other/Explanation Line No. Frequency Year Most Recent Occurence Year First Known Occurence Source of Information BWA Streamwatch County Water Quality Study Driveby UCCD Complaint Investigation												
Other/Explanation Line No.												
	EXPLA	NATIO	ON LIN	ES								
1												
2												
3 4 5												
4												
												
6												
7							····	····				
8												
9				· · · · · · · · · · · · · · · · · · ·]
10												



	FORM	/ A - ST	ORM W	ATER P	ROBLE	M ARE	AS S	SHEET		, OF	:/	<i></i>
WATERSHED		FO	RM CC	MPLE	TED	BY	Bef	ore Fi	lling (Out Fo	orm,	
/				,			See	Instr	uctior	ıs On	Back	
Name: Lincoln Th	P,	Nam	ne: () phone:	PAIC	EP	dey						
Municipality: Lincoln	2	Tele	phone:	443	5-79	39	For	Coun	ty Us	e:		·····
Name: Lincolp Tu Municipality: Lincoln County: Somers	Est	Date							•			
MAP NO. *	A-)	A- 2	- A-3	A-4	_ A-	A-C	A-	A-	A-	A-	A-	Α-
Types of Storm Water Problems					1		1			_		
Flooding			1	V	1	V			1			
Accelerated Erosion	I V			V	1	17	1		1	1		
Sedimentation			V	V	1	7			-	1		┪
Landslide		/		/	/	/	1		1			1
Groundwater		V	17	V)	1/		1		1		1-	-
Water Pollution	V				1	1		 	1	_		+
Other (Explain)						1	1	· · · · · ·	†	+		
Explanation Line No. (On Back)						1			╅		+	┪
Cause (s)					/	7		 	1	1-	+	
Storm Water Volume	V	1	1	V	1	1		┪	 	+	 	
Storm Water Velocity	77	1		/	1//	1/	····	 	╁	+	+	
Storm Water Direction		1	<u> </u>		Ĭ,	1	 -	+	 	 	 	+
Water Obstruction	1	1		-/	 /	1	ř	╅				
Other (Explain)		1	1	-	<u> </u>	1		 	┼	-	┪	
Explanation Line No. (On Back)	1		1		 	 		+	╁	 	╂	
Frequency		†	 	<u> </u>	†	·		 	╁┈┈	┼		
Year Most Recent Occurred	2005	2005	2004	2011	2004	2004		╁	┼	+	-	
Year First Known Occurred	1996	1996	1996	1996	1996	1996		 	 	+	┼	
Regularity		1	1 / 1 ×	1114	1.00	7.6.19		_	 	 	-	
More Than 1 Year						1./		 	 	╁	┼	
ess Than 1 Year		1	l		 	1	-	 	 	┼	┼──	
Only During Agnes						 		├─			 	
Duration (If Applicable)		 		/		 		 	ļ	 	 	
ess Than 1 Day		1	7	,/		1. 1	••••••	 	 	-	 	
Day + (Enter Days)	3	.3				15		 	 	 	 	
Property Damage										 	 	
oss of Life/Vital Services			-		1/	1./		 		├	 	ļ
Private		1						-		 	 	
More Than One Owner	455	1/25			1/					 	├	
ypes of Properties		Hones	Hoor		Homes	امدتا					 	
lumber of Properties	12	2	1012		MANY						ļ	
Public (List Types)	<u> </u>				ן-יינינין	5						
xplanation Line No. (On Back)						$\vdash \longrightarrow$					ļ	
olutions	 	- 									ļ	
uggested												
xplanation Line No. (On Back)	 										ļI	
ormally Proposed	 											
xplanation Line No. (On Back)	+											
Include Map ID No. if found o	<u> </u>	hor f-										



A-1 - WASLES TWO VITAL ROADS OUT AND EXPOSES A MAIN TO A GAS LINE OUT WHEN IT WASLES THE ROADS OUT - RIGGS ROE BLUEBIRD SPRINGS RO.

A=2 Degitation GROTATH Changes water Directions
A-2 WASKES MAIN ROAD OUT FOR ABOUT 1/4 OF
A MILE. ALWAYS FLOODS OUT THE 2 Homes
BASEMENTS AND WASKES ROAD OUT. Shaukis RO.

A-4 TOWNShip BRIDGES

\triangle		***************************************		FORM C - EXIST	TING FLOOD	CONTROL PRO	DJECT	SHEET	OF
WATERSHEE)	FORM COM	IPLETED E	3Y			TYPICAL TYPES C	F FLOOD CONTROL PROJECT:	S
		Name: Telephone: Date:				Channel Excav Channel Realiq Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County Us	se:	I		····					
Map ID No.	Type of Flood Control Projec	it	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	od Discharge C.F.S.		Owner Name, Address, and P	hone
C-									
C-		-		4.1.00					
C-									
C-				. And Andrews and					
C-									
C-									
C-	÷								

				FORM D - P	ROPOSED	FLOOD CO					SHEET OF
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS
		Name: Telephone: Date:					xcavation / ealignment ap			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining
For County U	se:	I									
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	ly Phase Bo Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Name, Address, and Phone
D-											
D-											
D-							-				
D-											
D-											
D-	·										
D-		=									

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond			FORM E - EXISTING STORM WATER CONTROL FACILITIES	CONTROL FACILITIES	SHEET OF
WATERSHED		FORM COMPLETED BY	LETED BY		
Zame:		Матне:		Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or	esigned and / or
Municipality:		Telephone:		utilized to reduce the rate and / or volume of storm water	er runoff
County:		Date:		from a site or sites.	
For County Use:			SERVICE CONTRACTOR CON		
Map ID No. Type of Storm Water Control Facility	of Facility	Year Built	Contact Person	Address and Phone	Comments
-3					
-=					
- <u>i</u>					
E-					
-3					
Ē-					
úШ					
Ē					
E-					
E-					
- -					
-3		-	-		
-3					
ů					
-크					
Ē-					
Ē.					
E-					
<u>'</u>					
ம்					
- '					
п -					
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	ROL FACILI	TIES Roof-Top Stors Semi-Pervious Infiltration Devi	TES Roof-Top Storage Semi-Pervious Paving Inflitration Device (Seepage /Recharge Basin or Underground Tank)	und Tank)	,

•				FORM F - PROPOSED STORM WATER CONTROL FACILITIES SHEET OFOF									
WATERSHED Name: Municipality: County:		FORM CO Name: Telephone: Date:	MPLETED		Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.								
For County Use	:												
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments						
F-													
F-													
F-													
F-													
F-													
F-													
F-													
F-													
F-													
F-													
* Enter the stor	m water problem area's Map I	D No., if the pro TYPICAL T	oposed proj YPES OF S	ect will solve TORM WATE	solve or reduce any / all of an identified drainage problem. VATER CONTROL FACILITIES								
Detention / Rete Natural Pond or Parking Lot Por	Wetland				Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage / Recharge Basin or Underground Tank)								

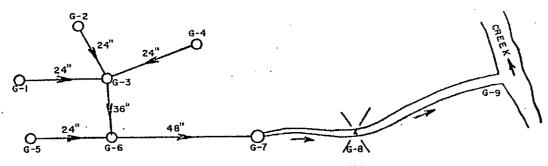
\bigcirc				FORM G - EXISTING STORM WATER COLLECTION SYSTEMS SHEET OF										
WATER	RSHED		FORM COM	MPLETED	BY	T			INSTRUCTIO	NS				
****	101120					Diagram ea	ach system	on the appr	opriate map.	Establish m	ap points to	show changes in systen	n elements,	
Name:			Name:			pipe size.	or pipe direc	tion, (If unk	nown, outline	the system	extent.) Con	nplete this form only who	re specific	
Municip	ality:	<u> </u>	Telephone:			information	on constru	ction is ava	ilable. Use a s	eparate for	m for each s	ystem. Identify the point	s within a	
	i		Date:			system cor	secutively	(ex G-1 G-	2 G-3) Start th	e first point	in each add	litional system 20 number	rs higher.	
County			-			For evamo	la G-3 and	one evete	m so G-23 he	ains the nex	d See Sam	ole Diagrams & Form on	Reverse.	
8./	lan I D	C	tem's Element	(v)	1	Measure		3 One byote	111, 30 0 20 20	1	Design	oro Brogramo a r om on	Name of Final	
IV	ap I.D.	Sys	item s ciemem	(S (X)	Pipe		nannel / Swa	olo.	Material	Year	Data	Contact Person	Ownership and	
<u></u>	No.	Di-	To 0, 1	Civilla		TW	B	Depth	iviateria:	Constr.	Available	Name and Phone	Maintenance Responsibility	
From	То	Pipe	Open Channel	Swale	D	1 77	В	рерш		COHSII.	Available	Name and Fridite	Maintenance responsibility	
_					ĺ									
G-	G-					ļ								
_					ŀ									
G-	G-		<u> </u>		<u> </u>	<u> </u>				<u> </u>		***************************************		
_	1_													
G-	G-					<u> </u>				 				
	1.													
G-	G-						ļ							
	1				i									
G-	G-			·						ļ				
						1				<u> </u>				
G-	G-													
										1	i			
G-	G-													
													1	
G-	G-													
G-	G-		1 1											

G-	G-									1				
	11													
G-	G-													
	+		1											
G-	G-												-	
	† *		 							<u> </u>		······································		
G-	G-													
<u></u>	 		+		<u> </u>	1				ļ				
G-	G-											*		
<u> </u>	- 		 			 								
G-	G-		;											

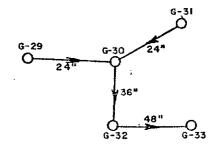
^{*} See measurement key on reverse side.

Measurement
Key

D = Diameter
TW = Top Width
B = Bottom Width



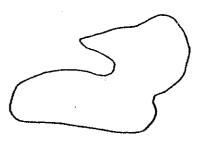
SAMPLE DIAGRAM FOR SYSTEM ONE



SAMPLE DIAGRAM FOR SYSTEM TWO

SAMPLE FORM (System One Only)

Last							180	gri44 51	COM MAIGE	COLLICIO	* \$75779	10** 1						
RATT Herre Mark					. ~	-			[Companied only profession of the assemble ones. Exercise and profession of the assemble ones. Exercise only profession of the assemble of th								
-	Y	T-		ň1		-		_		744	=		Park Company					
-				•		E.		-		one.			 					
61	63	,			N.				سم	1875	Y#	Jahn Con 123-4547	Street of ARC					
C)	63	,			,				D#	1971	٧	344 See 1834 HP	Remark at ARC					
64	6,1	,	· ·	<u> </u>	24"					1978	7#	Jun One 1234947	Service of ASC					
63	6.	ļ, —			35				O#	1975	Y-	Jahn (m. 1224987	Barragh of ARC					
G 6	6.0	,	 		,				0.00	1912	Tim.	John Clay 133-0587	tersup of ARC					
ÇE	g,	,			4-			-	0.4	1878	74	Julya Diga 125-4347	Baranda of ASC					
GT	G4	\vdash	,		Π	şı-		74	Carente	1980	Yet	Jahn Day 123-2587 -	tomph of ASC					
64	04		 	,	 	su*	34°	N-	Hard 5	-			Lease of ARC o					
•	-	\vdash	1	_	Г			Γ		Т								
a		\vdash	 	 	 	├~~	_	T										
4	ļ_	╁	1	 	1	 	1	T		┪	1							



Outline known areas where construction exists but construction data is unavailable.

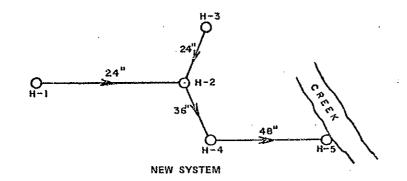
•					FORM H - F	M H - PROPOSED STORM WATER COLLECTION SYSTEMS SHEETOF									
WATER	RSHED	· ·	FORM CO	MPLETED	BY			··············	INSTRUCTION	SNC					
						On the map for pr	oposed storm wate	r collection systems	s, diagram each propos	sed system. Indicate	a map point	to show cha	nges in system e	lements, pipe size, pipe direction an	d connections
Name:			Name:											n. Complete a separate form for each	
Municip	ality:		Telephone:											I-1, H-2, H-3). Start the first point in	
County:			Date:			→						point where p	roposed addition	s connect into existing systems, usin	g the map
}								m form and map. Se	ee Sample Diagrams a					r	At an a C Pin at
M	ap I.D.	Sys	tem's Elemen	ts (x)		Measure			l	Map I.D.		osed	Design	Contact Person	Name of Final
	No.				Pipe		Channel /		Material	Nos.**		. Dates		Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	Ena	Avail.	Phone	Maintenance Responsibility
H-	H-										ļ				
H-	H-												******		
H-	H-														
H-	H-														
H-	H-														
H	H-	<u> </u>			<u> </u>	1		 			 				
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-			·											
														4	
H- H-	H-														

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

SAMPLE DIAGRAMS

Measurement
Key

D = Diameter
TW = Top Width
B = Bottom Width



SAMPLE FORM (New System Only)

								PACTOL	O STORE HA	TEA COLLECT	HON EFE	1107 6	A STA		3HEET
41						MM CO	-4 577							Sambacture	لتوميني بم زمو بمجد يسبب
MAT	ERNIO				1		****								
-	٠				1	™									\$45 Am \$2000 \$100 \$100 \$100 \$100 \$100 \$100 \$10
Marrie	وبالسية				Ta	****			_ i ≔	## 12 pm				(m. c.), us, us, m), town 24	
Court					۱ ۵۰	···			576	******* ** ** **		PH, PH		=======	
					r¹—		=			10.	Pre-	_	-	!) Newsork
	44	١٩		T	~-		===			= .	Care.		2	Carton Person Name and Partel	Red Decide and
	T va	1	27		ᆫ	ne	J.		1	1	_مع	t=t			1
H3	щ,	,			24"				04	A-1	1963	1983	¥α	Jana One 172-4647	Beraugh of ASC
_	-	-		<u> </u>	70.	1	_		0.0	A1	1982	1983	Y.,	Julie Dark 123-4947	Seconds of ASC
*3	H7	1	L	<u> </u>		└	Ь				I `	├			
μz	ил	,			м.	1				A-2	1947	1943	Yar	John Dan 1234507	Baranda , at ABC
	1				ļ	Π	1			42	1962	1003	Yes	John Dan 1224567	Barangh of ABC
144	H.E	1	L	L	<u> </u>	<u> </u>	↓			+	₩				1
*	T.,			Ì		ı	}				1	1	•		<u> </u>
	<u> </u>	↓	ļ	ļ	 	-			 	-	1	1		F	1
14	-			ļ					<u></u>	<u> </u>		lacksquare	<u> </u>	<u></u>	<u> </u>
	 	1		1	Т	1	Γ	Γ-		1	1		1	1	
#	1*		<u> </u>	!	ļ	┞—		ļ	 	-}	┼	⊢		 	
*	۱.		1		1		1	1			1_	L	<u> </u>		
*	1.	T		1	Π	Γ	Π		1		1	1			
	ļ <u>"</u>	 	ļ	 	 	╂	├-	 	 	1	╁~~	╁			
14	*					ł		L	<u></u>	ــــــــــــــــــــــــــــــــــــــ	L.,	<u>L.</u>	<u></u>	<u></u>	1
	 _	 _		Bec	a .	*	-	-			** **	~~ ~~	-		
_	,								-						

END OF
EXISTING
SYSTEM

ADDITION TO EXISTING SYSTEM

3° 2

		FORM I - PRESENT	& PROJECTEI	D DEVELOPMENT IN THE FLOOD HAZARD AREA	SHEET OF
WATERSH	IFD	FORM COMPLETE	D BY		DEFINITION
WATERON				FLOOD HAZARD AREA:	
Name:		Name:			DRY LAND AREA THAT HAS BEEN OR IS
Municipality	y:	Telephone:			TO BEING INUNDATED BY THE
County:		Date:		100-YEAR FLOO	DU.
For County	Use:				
Map ID No.	TYPE OF DEVELO	OPMENT	Year Built	Contact Person Name, Address and Phone	Comments
I -		and the second s	5681		
I -					
1 -	440-440-4				
1	· · · · · · · · · · · · · · · · · · ·				
1					
1 -					
1 -					
1 -					
I					

\searrow	FORM	J - WAT	rer Qu	ALITY PI	ROBLE	M ARE	AS :	SHEET		OF		
WATERSHED				FOR	M CO	MPLE	ETED	BY				
Name: Municipality: County:		J., U. 11-11		Name Telep Date:	: hone:							
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems	1			 		ļ			<u> </u>	<u> </u>	<u> </u>	
High Community Tolerence												
High Temperature									İ			
High Turbidity			1		Ī	İ						
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen								ĺ				
Low pH												
Nutrient Enrichment											.	
Poor Habitat				ļ	[ĺ			
Other/Explanation Line No.					<u> </u>				L	<u> </u>		
Potential Cause(s)												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.	<u> </u>											
Frequency												
Year Most Recent Occurence												
Year First Known Occurence												
Source of Information												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												
CATON EXPIDITED IN CO.	EXPLA	ANATI	ON LIN	IES		L	l	L		Ļ	اا	<u> </u>
1	July 11 14/	., ., 111	~ · · · • · · ·									
2				· · · · · · · · · · · · · · · · · · ·				·	·			
3							***********					
4											·····	
5				······································	••••••••••	·····						
6												==
7												
8		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	······									
9							~	************************				
10				······································		····	····				•	





AUG 2 A 2005

August 22, 2005



Project No. 01-2486.47

Mr. Robb Piper Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931

TRANSMITTAL STONYCREEK RIVER STORMWATER PLAN CITY OF JOHNSTOWN, CAMBRIA COUNTY

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from the City of Johnstown, Cambria County.

Sincerely yours,

Paul C. Rizzo Associates, Inc.

Mark W. Lazzari

Watershed/Land Use Planner

MWL/RJF/ljr Enclosure

pc:

City Manager, Jeffry Silka

Director of Public Works, Darby Sprincz

1.001-2486.47/01

	FORM	MA-ST	ORM W	ATER P	ROBLE	M ARE	AS S	SHEET		OF				
WATERSHED			FORM COMPLETED BY						Before Filling Out Form, See Instructions On Back					
Name: Sony Creek Municipality: City of Johns County: Cambria	Nam Tele Date	ne: phone):	100 1 18 : 3 :	Mark W. Lazzer, 814-536-6767 8/10/05			See Instructions On Back For County Use:							
MAP NO. *	A-	A-	A-	 A-	IA-	A-	A-	IA-	TA-	A-	Α-			
Types of Storm Water Problems	A-		1	- ` 	 	 	/~-	12-	1~	12-	1/~	17-		
Flooding							 	- -		+				
Accelerated Erosion			+	+	- 	+	 		╁─	╅	+	+		
Sedimentation				+-		┪━┈┈	-	+	╫	┪	+	 		
Landslide			-	 		-	1	+	┪		┼			
Groundwater	1		†	 	 	-		+	╅	+-	 -	1		
Water Pollution	<u> </u>		-				1		+	╅		┼		
Other (Explain)	1	1		1.		1	†	-	+-	+	+	 		
Explanation Line No. (On Back)	1			1		╅		1	╅	+	┪	 		
Cause (s)	1	—			$\parallel \setminus$	<u> </u>	 	-	 	+		 		
Storm Water Volume		_	 		1			 	\dagger	 		1		
Storm Water Velocity			11	11	+	X	····		╁	···	†	 		
Storm Water Direction				11		1		1	1	1	 	 		
Water Obstruction	1			1	1			 	1	1		†		
Other (Explain)					1	1			†	 	†			
Explanation Line No. (On Back)				/	M I	<u> </u>	\$	1	1	1	 	1		
Frequency				1		1		†	<u> </u>	1				
Year Most Recent Occurred				1	a	İ					1	<u> </u>		
Year First Known Occurred							1	T	1					
Regularity									 					
More Than 1 Year									1					
Less Than 1 Year														
Only During Agnes														
Duration (If Applicable)								1	1					
Less Than 1 Day														
1 Day + (Enter Days)									Ī					
Property Damage								ĺ						
Loss of Life/Vital Services	<u> </u>													
Private	<u> </u>													
More Than One Owner		<u> </u>	<u> </u>											
Types of Properties	<u> </u>	<u></u>	<u> </u>											
Number of Properties														
Public (List Types)		<u> </u>	<u> </u>											
Explanation Line No. (On Back)		<u> </u>	<u> </u>											
<u>Solutions</u>					ļ									
Suggested	<u> </u>	<u> </u>	<u> </u>	<u> </u>			***************************************							
Explanation Line No. (On Back)	<u> </u>													
Formally Proposed		<u> </u>	<u> </u>		ļ]								
Explanation Line No. (On Back)	<u> </u>		<u> </u>	<u> </u>	<u> </u>									
* Include Map ID No. if found or	anv o	ther for	rm listii	na proi	hasad	facilitie	20							

\triangle				FORM C - EXIST	TING FLOOD CONTROL PROJECT SHEET OF										
WATERSHE	D	FORM CON	APLETED E	BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS									
Name: Municipality: County:	Stony Creek City of Johnstown Camiona	Name: Telephone: Date:		U.L.027an 6-6767		Channel Exca Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining						
For County U	Jse:					***************************************									
Map ID No.	Type of Flood Control Project		Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and	l Phone						
C-	See Attached MAPSOL	Dota	Sheet	ϵ											
C-	WWW. Johnstown	flood	Protec	tion.c	om										
C-	See														
C-															
C-															
C-															
C-			-					V-184-1							

△				FORM D - P	PROPOSED FLOOD CONTROL PROJECT						SHEET_	OF	
WATERSHE	:D	FORM CO	MPLETED	BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS							
Name: Municipality: County:	nme: Stony Creek Name: Mark W. Lazzavi Unicipality: City of Johnstown Telephone: 914-536-576-7 Date: 8/10/0.5					Channel E Channel R Rock Ripra	ealignment			Levee Dams Gabions Floodwall Pipe Channel Concrete Lining			
For County U	Jse:	<u> </u>											
Map ID No.	Type of Flood Control Project	Stu YES Prelim.	dy Phase B S Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.		Map ID No. Form A*	Owner	Name, Address, and Pho	ne
D-					-								
D-											***************************************		
D-													
D-			V 1										
D-													
D-													
D-						and the state of t							

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond	FORM E - EXISTING STORM WATER CONTROL FACILITIES	ONTROL FACILITIES SHEET	OF
WATERSHED Name: For (Yeek Municipality: City of Johnstown County: Cam bris	FORM COMPLETED BY Name: $W_{qv} K_{qv} K_{qv} q = 22qv$. Telephone: $\frac{N_{qv} K_{qv} K_{qv} - 62qv}{8!q - 53e - 62qv}$. Date:	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	
For County Use: Man ID No Trung of Storm Water Control Equility Veer Built	Vas Britt	Address and Drops	
-			
56e At	acked MADS a	Data Sproad shoot	
·ii			
.il			
ú			
[년-			
<u> </u>			
ம்			
-교			
Ē			
Ů.			
ய்			
<u>.</u>			
ப்			
1			
·Ш			
-11			
<u>т</u>			ŕ
ü			
-1			
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Room Natural Pond or Wetland Sem Parking Lot Pondling Infilt	.ITIES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	und Tank)	owen and an extra group and place of the property of the prope

•				FORM F - P	PROPOSED STORM WATER CONTROL FACILITIES SHEET OF									
WATERSHED Name: Municipality: County:	Stony (rook City of Johnstown Cambrik	Name:	MPLETED 1 Mark 6 814 536 8/1405	0.Lazzán	DEFINITION Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.									
For County Us	se:													
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments							
F-														
F-	ſ													
F-	\sim	Λ												
F-														
F-														
F-														
F-														
F-														
F-														
F-														
* Enter the sto	orm water problem area's Map ID	No., if the pr TYPICAL T	oposed proj YPES OF S	ect will solve TORM WATE	or reduce at ER CONTRO	ny / all of an identified drainage problem. DL FACILITIES								
Detention / Re Natural Pond of Parking Lot Po	or Wetland					Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepa	age / Recharge Basin or Underground Tank)							

					FORM G - E	XISTING S	TORM WA	TER COLLE	ECTION SYST	EMS		SHEET OI					
Name: Municip	WATERSHED FORM COMPLETED BY Name: Mark W. Lattar Municipality: City of Johnstown County: Cambrid Date: 8/10/05						INSTRUCTIONS Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher.										
Map I.D. System No.		em's Elements (x) Open Channel Swale		Pipe D	For examp Measure	Measurements * Channel / Swale		m, so G-23 be Material	Year Constr.	e next. See Sam Design ar Data	ample Diagrams & Form or n Contact Person	Reverse. Name of Final Ownership and Maintenance Responsibility					
G-	G-		See	A	tachec	M	Aρ	20	2								
G-	G- G-																
G-	G-																
G-	G-										-						
G- G-	G-																
G-	G-											***************************************					
G-	G-			******													
G- G-	G- G-																
G-	G-			-								MALLON DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA C					
G-	G- G-											^					
G-	G-		ĵ					<u> </u>									

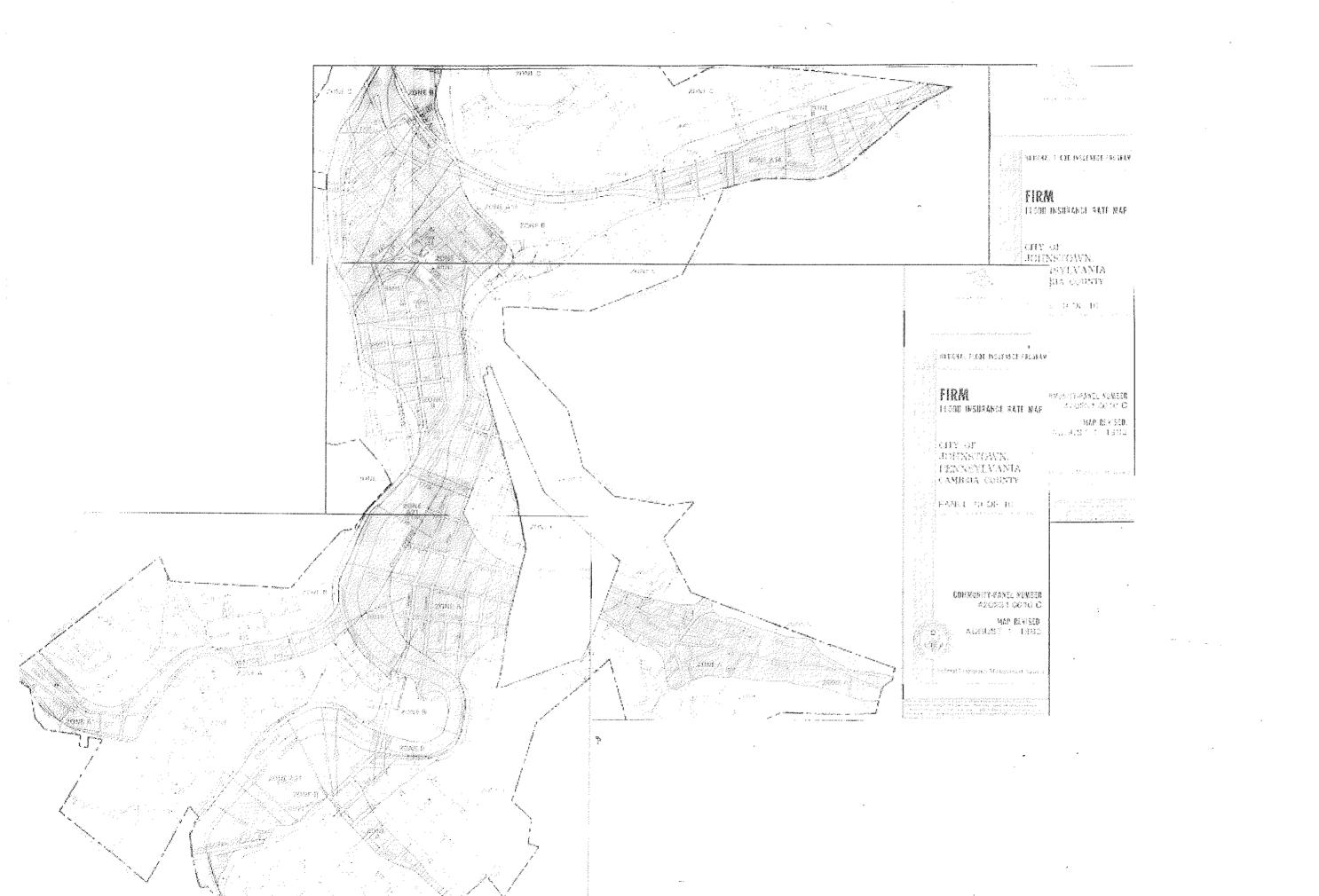
^{*} See measurement key on reverse side.

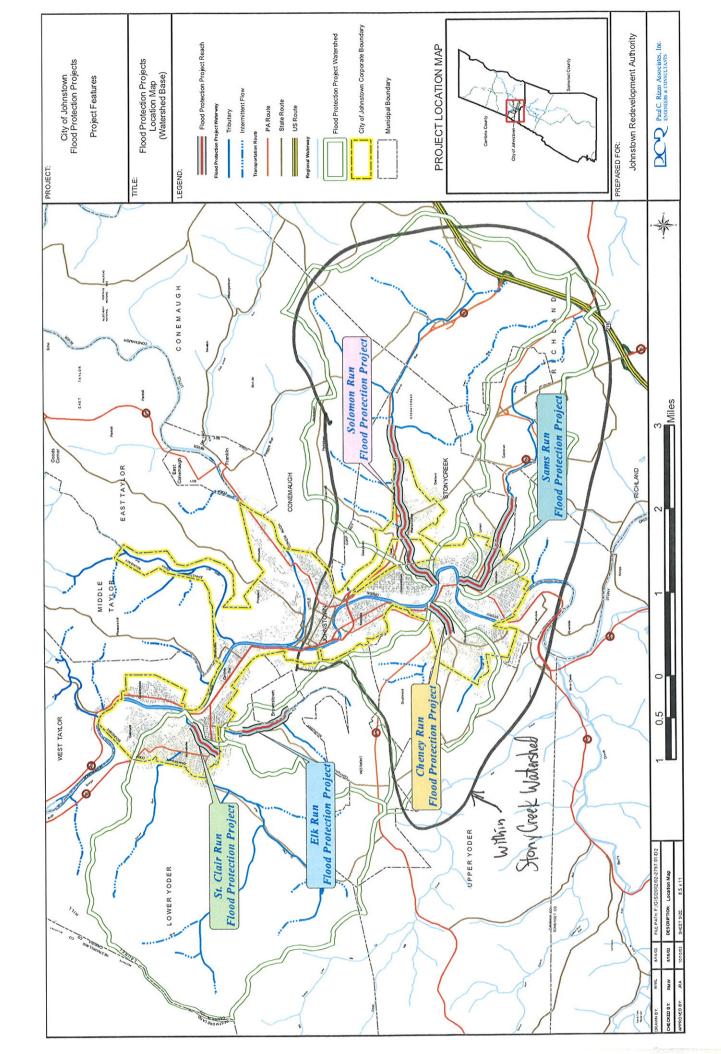
Name						FORM H - I	PROPOSED	STORM W	ATER COL	LECTION SY	STEMS			SHEET	OF	
Name: Shwifter Report Sharper	WATER	SHED		FORM CON	VPLETED I	BY				INSTRUCTIO	ONS					
Municipality Chy Chicken Date State Chron State			ı				On the map for pro	posed storm wate	r collection systems	, diagram each propos	ed system. Indicate	a map point	to show char	nges in system e	lements, pipe size, pipe direction an	d connections
Municipality: City of Clarks from 5 Telephone: Site 5 City of Clarks from 5 Telephone: Site 5 City of Clarks from 5 Telephone: Site 5 City of Clarks from 5 Telephone: Site 5 City of Clarks from 5 Telephone: Site 5 City of Clarks from 5 Telephone: Site 5 Telephon	Name:	Stonvere	ale.	Name:	Mark W	Lazzori	to existing system	s. For proposed ad	dilions to existing s	ystems, diagram only t	he additions and the	ir connection	point into th	e existing system	n. Complete a separate form for eac	n proposed,
County: Date: 10 Date: 10 Date: 10	Municipa	ality: C. 4x0	Fachinan	Telephone:	814-536	-6767	new system and o	ne for each existing	g system having on	e or more proposed ad	ditions. Identify the p	oints within	a system cor	nsecutively (ex. F	I-1, H-2, H-3). Start the first point in	each
Map I.D. System's Elements (x) Measurements * Measurements * Map I.D. Proposed Data Name of Final No. Pipe Open Channel / Swale D TW B Depth Phone Maintenance Responsible Phone Maintenance Responsible Phone	County:						additional system :	20 numbers higher	(if H-3 ends one sy	stem, begin the next w	rith H-23). Be sure to	show the p	oint where p	roposed addition	s connect into existing systems, usin	ng the map
Pipe Open Channel / Swale Material Nos.** Const. Date Date Name and Ownership and Maintenance Responsible					,				m form and map. Se	e Sample Diagrams ar						
From To Pipe Open Channel Swale D TW B Depth Form A Start End Avail. Phone Maintenance Responsib H-											1	ū		1		
H H H H H H H H H H H H H H H H H H H		No.								Material	t .					· ·
H H H H H H H H H H H H H H H H H H H	From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
H H H H H H H H H H H H H H H H H H H	H-	H-		- ALL COLOR OF THE PROPERTY OF												
H- H- H- H- H- H- H- H- H- H- H- H- H- H																
H- H- H- H- H- H- H- H- H- H- H- H- H- H						A /										
H- H- H- H- H- H- H- H- H- H- H- H- H- H						 	1							<u> </u>		
H- H- H- H- H- H- H- H- H- H- H- H- H- H	H	H-				 										
H- H- H- H- H- H- H- H- H- H- H- H- H- H	H-	H-				VI					<u> </u>					
H- H- H- H- H- H- H- H- H- H- H- H- H- H	H	H-														
H- H- H- H- H- H- H- H- H- H- H- H- H- H	H-	H-					,									
H- H- H- H- H- H- H- H- H- H- H- H- H- H		H-										-				
H- H- H- H- H- H- H- H- H- H- H- H- H- H	***************************************															
H- H- H- H- H- H- H- H- H- H- H- H- H- H																
H- H- H- H- H- H- H- H- H- H- H- H- H- H	H	H-									 					
H- H- H- H- H- H- H- H- H- H- H- H- H- H	H-	H-												.4.1.41 & 44141		
H- H-	H-	H-														
H- H	H	H														
		H-							-							
	H-	H-		į.												

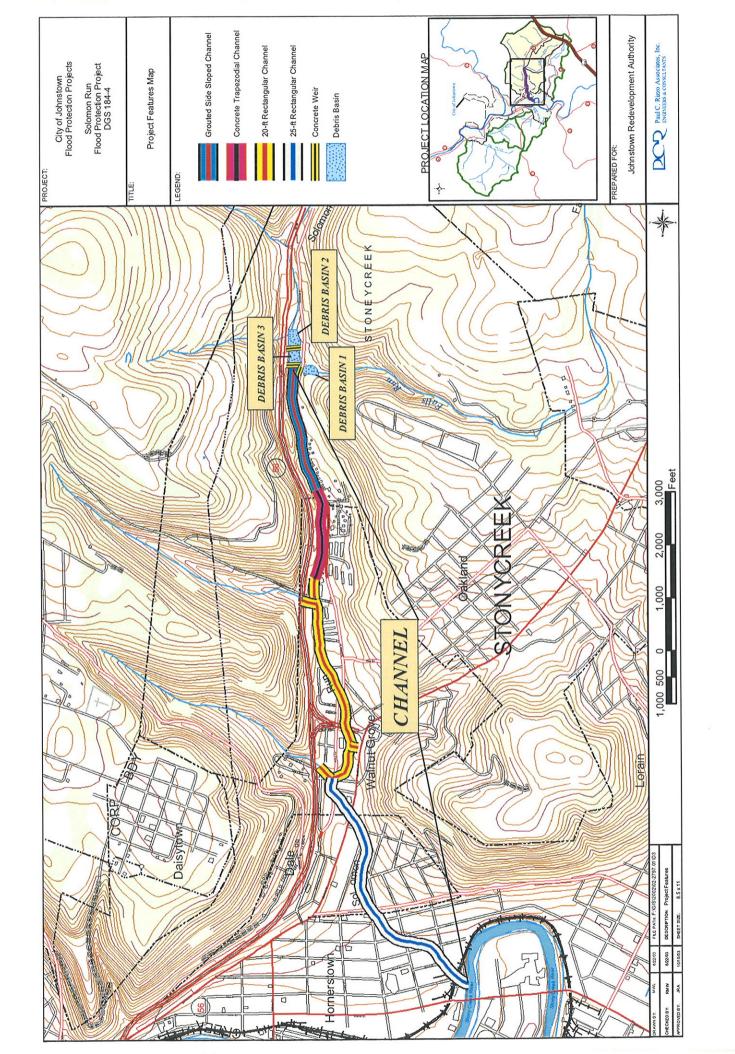
^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

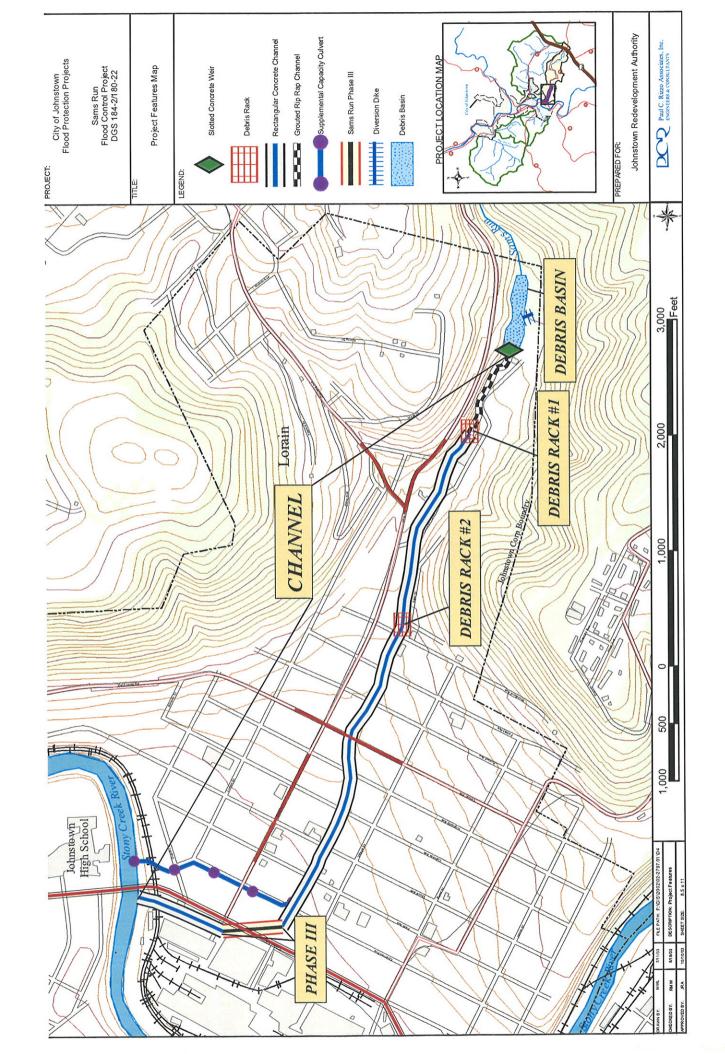
		FORM I - PRESENT	& PROJECTED DE	EVELOPMENT IN THE FLOOD HAZARD A		SHEET	OF
WATERS	SHED	FORM COMPLETE	D BY		DEFINITION		
			A. 1. 1	FLOOD HAZARD AREA:			
Name:	May Crook	Name:	Mark W. Lazza	34 V I	NORMALLY DRY LAND AREA TH		3
Municipa	lity: City of Admistain	Telephone:	814-536-676	. 7	JSCEPTABLE TO BEING INUNDA	TED BY THE	
County:	Cambria	Date:	8/10/05		00-YEAR FLOOD.		
For Cour	nty Use:						
Map ID	TYPE OF DEVEL	OPMENT	Year	Contact Person		Comments	
No.	TIPE OF DEVELO	OT MILLIAN	Built	Name, Address and Phone]		
-	See A Hac	ched					
-	Map 1	of 2					
1 -							
-							
I -							
1 -							
-							
1							
-							

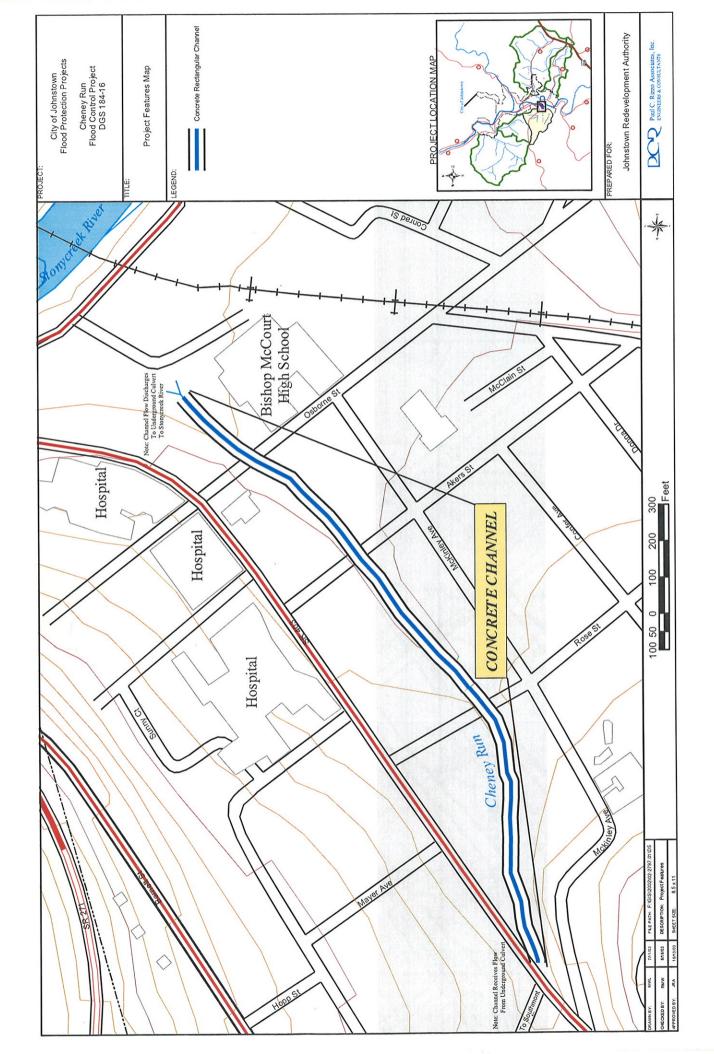
\sim	FORM	J - WAT	ER QUA	ALITY PI	ROBLE	M ARE	AS S	SHEET		OF		
WATERSHED				FOR	мсо	MPLE	TED	BY				
I. G. I.				. .			1. 1.	, 1 ;	j			
Name: Jony Creek				Name			lar K	W	L97	Zurl		
Municipality: Chy of Johnst	OWV)			Telepi	none:		14- 9		676	7		
County: Cambria		····	····	Date:			1/10/0	5	······································		••••••	·····
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems												
High Community Tolerence						İ				l		
High Temperature	-											
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity		ļ										
Low Dissolved Oxygen						n			ĺ			
Low pH		•										
Nutrient Enrichment												
Poor Habitat				/ W	ł							
Other/Explanation Line No.				1 4	- 1	M						
Potential Cause(s)				-	-							
Agriculture												
Construction Site										İ		
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
Frequency												
Year Most Recent Occurence												
Year First Known Occurence												
Source of Information												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												
	EXPL/	NATIO	ON LIN	ES								
1							, , , , , , , , , , , , , , , , , , , ,					
2												
3												
4												
5												
6												
7												
8]
9												
10												











City of Johnstown, Existing Flood Control and Storm Water Control Facilities

WWW. Johnstown Flood Protection. Com

				PROJECT HISTORY		
Feature	DGS No.	Latitude	Longitude	Description	Constructed	Contractor
Solomon Run Flood Protection Project						
Channel	77444 11	40°18'48,77"N - 40°18'20.27"N	78°52'30.38"W - 78°54'37.80"W	11,300-ft of Concrete Channel		
Concrete with Grouted Side Slopes		40°18'48,83"N - 40°18'45.03"N	78°52'30.49"W - 78°52'56.64"W	2,100-ft of Grouted Side Sloped channel. From Debris Dam 3 to Trapezoidal channel		
Concrete Trapezodial		40°18'45.03"N - 40°18'44.44"N	78°52'56.64"W - 78°53'14.60"W	1,400-ft of Trapezoidal channel. From Grouted Side Slope channel to 20-ft Rectangular channel		
20-ft Rectangular Concrete		40°18'44.44"N - 40°18'41.91"N	78°53'14.60"W - 78°53'55.81"W	3,450-ft of 20-ft Rectangular channel. From Trapezoidal channel to 25-ft Rectangular channel	-	
25-ft Rectangular Concrete		40°18'41.91"N - 40°18'20.29"N	78°53'55.81"W - 78°54'37.84"W	4,350-ft of 25-ft Rectangular channel. From 20-ft Rectangular channel to Stonycreek River		
Debris Basin 1	DGS 184-4	· 40°18'48.70"N	78°52'24.86"W	Most upstream Basin located on Solomon Run	1987-1988	W. P. Dickerson & Son, Inc.
Debris Basin 2		40°18'48.34"N	78°52'48.52"W	Second Basin - located on Solomon Run just downstream of Basin 1		•
Debris Basin 3		40°18'46.05"N	78°52'31.12"W	Debris Basin located on Falls Run - Enters Solomon Run just downstream of Debris Basin 2		
Debris Dam 1		40°18'48.36"N	78°52'26.69"W	Most upstream Dam - Associated with Debris Basin 1- located on Solomon Run	-1	
Debris Dam 2		40°18'48.28"N	78°52'30.19"W	Second Debris Dam - located on Solomon Run just downstream of Debris Dam 1		
Debris Dam 3	,,	40°18'47.41"N	78°52'31.35"W	Debris Dam located on Falls Run - At Solomon Run just downstream of Debris Dam 2		
Sams Run Flood Protection Project						
Channel		40°17'33.94"N 40°18'5.35"N	78°53'39.56"W - 78°54'41.42"W	6,500-ft of Concrete Channel	_	
Grouted Rip Rap Channel		40°17'33.94"N - 40°17'37.26"N	78°53'39.56"W - 78°53'48.72"W	820-st of channel located from Slotted Concrete Weir 1 to Steel Debris Rack 1		
Rectangular Concrete Channel	DCC 1913	40°17'37.26"N - 40°18'5.35"N	78°53'48.92"W - 78°54'41.42"W	5,720-ft of Rectangular channel. From Steel Debris Rack No. 1 to Phase III	1985-1986	Gordon L. Delozier, Inc.
Debris Basin 1	DGS 184-2	40°17'33.25"N	78°53'35.54"W	Located in Lorain Borough Park.		,
Slotted Concrete Weir 1		40°17'33.94"N	78°53'39.56"W	Multi-piered concrete structure at discharge end of Debris Basin		
Debris Rack 1		40°17'37.26"N	78°53'48.72"W	Steel rack located at entrace to Lorain Borough Park		
Debris Rack 2						
Phase III	DGS 180-22				1995	Gordon L. Delozier, Inc.
Channel	DGS 180-22	40°17'52.98"N - 40°17'55.65"N	78°54'44.28"W - 78°54'44.56"W	280-ft of Rectangular channel		
Change Dun Flood Brotaction Businet						
Cheney Run Flood Protection Project Channel	DGS 184-16	40°18'10.95"N - 40°18'20.73"N	78°55'20.46"W - 78°55'0.33"W	1,950-ft of concrete Rectangular channel	Circa 1993	





October 26, 2005

Borton Lawson Engineering 6814 Chrisphalt Drive, Suite 200 Bath, Pennsylvania 18014-8503

Attn: Mr. Paul A. DeBerry, P.E.

BORTON L CON LEHIGH VALLEY OFFICE

ORRESPONDENCE

MJW
WSB
PAR
ADMIN
PROJECT NO.

STONYCREEK ACT 167 PLAN REQUESTED INFORMATION FOR JENNERSTOWN BOROUGH, SOMERSET COUNTY

Dear Mr. DeBerry:

On behalf of our client, Jennerstown Borough, we are submitting information requested at the June 22, 2005 Stonycreek Act 167 Plan meeting.

If you have any questions please call.

The EADS Group, Inc. (Somerset)

by: Ben Faas

enclosures

cc: Jennerstown Borough

Cambria County Conservation District

File No.4400-G-01, w/enc.

C-file

FORM DESCRIPTION SUMMARY ACT 167 WATERSHED STORMWATER MANAGEMENT PLAN

	N A	N/4	1888	3		- Ama	1.5	3	William Control	T N
Sources of Information	Existing studies or reports, Township Documentation, Personal memory, Township consings.	Ownship dies, township roadmaster, township ties, subdivision applications,	Township records, township engineer, owner of facilitiv	Township records, township engineer,	Subdivision files, township engineer,	Subdivision files, township engineer, owner of facility	Existing plans, township engineer, owner of system	Existing plans, township engineer, owner of system	Flood Insurance Studies, Subdivision / Site Plans, General knowledge, Township engineer, Private flood	Municipalities, Conservation District
Types of Examples	Flooding, Drainage, Erosion/Sedimentation	Bridges. Culverts, Fill, Structures	Channel excavation, riprap, floodwalls, etc.	Channel excavation, riprap, floodwalls, etc.	Detention basins, recharge basins, roof-	Detention basins, recharge basins, roof- top stroage	Storm sewers, man- made channels, diversions	Storm sewers, man- made channels, diversions	Subdivision / site plans	Construction sites, agriculture
Description	Stormwater Problem Areas	Obstructions	Existing Flood Control Projects	Proposed Flood Control Projects	Existing Stormwater Control Facilities	Proposed Stormwater Control Facilities	Existing Stormwater Collection Systems	Proposed Stormwater Collection Systems	Present & Projected Development in Flood Hazard Areas	Water Quality Problem Areas
Symbol		\circ		④	\Diamond	•		•		₩
<u>Form</u>	A	മ	O		Ш	L	ග	エ		7

Lenners form

\triangle				FORM C - EXIS	TING FLOOD	CONTROL PR	OJECT	SHE	et OF
WATERSHE	D	FORM COI						F FLOOD CONTROL PROJEC	
Name: Municipality: County:	JENNERSTOWN BOROUGH SOMERSET	Name: Telephone: Date:	111E 14.DS (814) 445	6557		Channel Exca Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County L	Jse:	I		·		······································			
Map ID No.	Type of Flood Control Project MAN Made DAM	t	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and	Phone
C- 1									
C-									
C-									
C-									
C-									
C-									
C-	;	,						,	

..

\Diamond			FORM E - EXISTING STORM W.	ATER CONTROL FACILITIES	SHEETOF
WATERSHE	D	FORM COM	PLETED BY	Definition of Storm Water Control Facility	
Name:		Name:	THE EADS GROUP	A natural / man-made device or structure specific	cally designed and / or
Municipality:	JENERSTOWN BURDUCH	Telephone:	(814) 445-6551	utilized to reduce the rate and / or volume of stor	m water runoff
County:	Samersat	Date:		from a site or sites.	
For County L	Jse:				
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
E- 1	DETENSION BASIN				
•					
E-					
E- E- E-					
F_					
<u></u>		-			
<u>-</u>					
<u></u>		1			
E- E- E- E- E- E-					
<u>E-</u>					
E-					
E-		- 			
<u>E-</u>		-			
E- E-					
E-		<u> </u>			
E- E-					
E					
E-					
TYPICAL TY	PES OF STORM WATER CONTROL FACILI	TIES			
Natural Pond	Retention Basin	Roof-Top Stor Semi-Pervious	age Poving	•	
Parking Lot F	Pondling	Infiltration Dev	r Paving ice (Seepage /Recharge Basin or Ur	derground Tank)	
1			(200pogo ii toomingo basiii tii tii	sorg. conto Taliny	

•				FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES	SHEET OF			
WATERSHE Name: Municipality: County:		Name:	MPLETED THE EADS (314) 445-	Grow ^a		Storm Water Control Facility A natural / man-made device or stru utilized to reduce the rate and / or ve from a site or sites.	cture specifically designed and / or			
For County L	Jse:									
Map ID No.	Type of Storm Water Control Facility	9200	Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments			
F- 1	Proposed detention	BHSIN								
F-		<u></u>				.,,				
F-		·····								
F-										
F-										
F-				••••••						
F										
F- F-										
	torm water problem area's Map ID	No., if the pr	oposed proj	ect will solve	or reduce an	y / all of an identified drainage problem. L FACILITIES				
Natural Pond	tention / Retention Basin tural Pond or Wetland rking Lot Pondling Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage / Recharge Basin or Underground Tank)									

\bigcirc					FORM G - E	XISTING S	TORM WA	TER COLLE	ECTION SYST	EMS		SHEETOF_	
WATER	SHED		FORM COM	MPLETED THE EADS		pipe size, c	r pipe direc	ction. (If unk	nown, outline	Establish ma	extent.) Con	show changes in system on plete this form only where	e specific
Municipa	lity: J≅nad		Telephone:	(314) 445	-6561	information	on constru	ction is ava	ilable. Use a s	eparate forr	n for each s	ystem. Identify the points viitional system 20 numbers	within a
County:	SOMERSET		Date:			For examp	e, G-3 end	s one syste	m, so G-23 be	gins the nex	t. See Sam	ole Diagrams & Form on R	Reverse.
f .	p I.D.	Syst	em's Element	ts (x)	Dina	Measurer		olo.	Material	Year	Design Data	Contact Person	Name of Final . Ownership and
From	No. To	Pipe	Open Channel	Swale	Pipe D	TW	nannel / Sw B	Depth	iviat e riai	Constr.	Available	Name and Phone	Maintenance Responsibility
G- /	DAY G-light	·····			15"C.P.P.				CPP				
G- 2	DAY G-/jaht				4" RVC.				PVC				
G-3	G-light				12"C.M.P.				CMP				
	G- 5				12" P.V.C.				PVC				
	G- 6				12" CONC.				CONC	******			
į.	g- 7				16"C.P.P.				CPP				
	G- 8				16"C.P.P.				CPP				
	G- 9				16" P.V.C.				PVC				
	G- //				18" CONC.				CONC				
	G- /2				18" Contc.				CONC				
G-/2	DAY G-light				18" CONC.				CONC				
G-/3	, , , , , , , , , , , , , , , , , , ,				12"CM.P.				CMP				
G-14	1				12"CMP.				CMP				
G- /5	i i				18" C.P.P.				CPP				.,
G-16	l 1		ş		18" CONC.				CONC.				

^{*} See measurement key on reverse side.

\bigcirc					FORM G - E	XISTING S	TORM WA	TER COLLE	CTION SYST	EMS		SHEET 2	of3	
		LSTOWN Вокоч Т	FORM COM Name: Felephone: Date:	THE EADS	Group	pipe size, o information system cor	or pipe direction on construite on construit	on the approtion. (If unkliction is avail (ex. G-1,G-2	nown, outline the lable. Use a sel., G-3). Start the	Establish m the system eparate forn e first point	extent.) Con n for each s in each add	show changes in sys nplete this form only v ystem. Identify the po itional system 20 nun ple Diagrams & Form	here specific ints within a abers higher.	
	p I.D. No.	•	em's Element		Pipe	Measure Ch	nents * nannel / Sw	ale	Material	Year	Design Data	Contact Person	Name of Final . Ownership and	No.
From G-/7	To DAY G- Light	Pipe	Open Channel	Swale	D 18"CONC.	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibil	ity
	G- /9				12" CONC.									
	G- 20			· · · · · · · · · · · · · · · · · · ·	12" CONC.									<u>, </u>
	G- 2/ G- 22				12" CONC.									
	DAY G- Light				18" CONC.								4	
	G- 24				12" C.M.P.									
G-24	1				12" CONC.									
G-25 G-26	4				12" CONC.									
G-27	G- 4/				18" Conc.									
G-4/	G-28 DAY				18" CONC.				···· · · · · · · · · · · · · · · · · ·					
1	DAY G-light G-30				2' CONC.									
	DAY G-light		ş		12" CONK									

See measurement key on reverse side.

\bigcirc					FORM G - E	XISTING S	TORM WA	TER COLLE	CTION SYST	EMS		SHEET 3	OF	3	
WATER	SHED		FORM CO	MPLETED	BY				INSTRUCTIO	NS					
						Diagram ea	ach system	on the appr	opriate map.	Establish m	ap points to	show changes in sys	stem ele	ements,	
Name:			Name:	THE EADS	GROUP							nplete this form only			
Municipa	ality: JENNISA	ESTOWN EXECUTE	Telephone:	(814) 445-	6551							ystem. Identify the po			
	Somersë 1		Date:									litional system 20 nur			
								s one syster	n, so G-23 be	gins the nex		ple Diagrams & Form	on Re		
	ip I.D.	Syst	em's Elemen	ts (x)		Measure					Design			Name of Final .	
	No.				Pipe		nannel / Sw		Material	Year	Data	Contact Person		Ownership and	
From	To	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone		Maintenance Responsibility	
G- 3/	G- 32				12"conc										
G- 32	G-light				12" Core.										·····
G- 33	DAY G-light				12"CM.P.										
	G-light				12" C.M.P.										
	G- 36				12" C.P.P.										
	G-RAY G-Light				12" C.P.P.										
	G- 38				12" C.P.P.										
	G- 39				12" C.P.P.										
	DAY G-light				12" C.P.C.		-								
	G-light				12" C.P.P.										
G- ,	G-														
G-	G-														
	G-														
G-	G-											è			
G-	G-		ì												

^{*} See measurement key on reverse side.

	FORM						NS S	HEET_	4	OF _				
WATERSHED	1.7	1					200	Inetro	ictions	o On E				
Name: <u>Quee. Ca</u>	9616	FORM COMPLETED BY Name: Im Hearty Telephone: g y - 2/2 7/55 Date: B E O 5 A- 2 A- 3 A- 4 A- A- A- A- A- A- V V V D D D A- 2 A- 3 A- 4 A- A- A- A- A- V V V D D D A- 3 A- 4 A- A- A- A- A- V V V D D A- 3 A- 4 A- A- A- A- V V V D D D A- 3 A- 4 A- A- A- A- V V V D D A- 4 A- A- A- A- A- 5 A- A- A- A- 6 A- A- A- 7 A- A- A- A- 8 A- A- A- A- 9 A- A- A- 9 A- A- A- 9 A- A- A- 9 A- A- A- 9 A- A- 9 A- A- A- 9 A- 9 A- A- 9 A- 9 A- A- 9 A-												
Municipality: しゃいん ブ	$\neg \omega \rho$	Name:												
County: <u>Somenss</u>	7	Date:		B. f	<i>6 /</i>	05								
MAP NO. *	A- /	A-2	A- 3	A- 4	A-	A-	Α-	А-	A-	A-	A-	A-		
Types of Storm Water Problems	J				<u></u>									
Flooding	V	16	V											
Accelerated Erosion														
Sedimentation														
Landslide											T			
Groundwater														
Water Pollution														
Other (Explain)														
Explanation Line No. (On Back)														
Cause (s)								T		T	1			
Storm Water Volume		Car Harris	Server.											
Storm Water Velocity														
Storm Water Direction						T								
Water Obstruction														
Other (Explain)			1											
Explanation Line No. (On Back)														
Frequency				1										
Year Most Recent Occurred	2004	2045	2005	2005						1		Ì		
Year First Known Occurred	ŢP			7		<u> </u>		1		1				
Regularity	1													
More Than 1 Year		V	bear and	Paterior in 5							·			
Less Than 1 Year	V					1		***************************************						
Only During Agnes														
Duration (If Applicable)								1						
Less Than 1 Day				lor		1	.,							
1 Day + (Enter Days)	170/2		1102			1		1		1				
Property Damage														
Loss of Life/Vital Services	_								l					
Private			P	No. of Concession, Name of Street, or other party of the Concession, Name of t	***************************************			<u> </u>						
More Than One Owner		V												
Types of Properties	House			100438										
Number of Properties		,	>											
Public (List Types)	2.	beer			*******									
Explanation Line No. (On Back)						-								
Solutions					· · · · · · · · · · · · · · · · · · ·									
Suggested	V	. January C. C.												
Explanation Line No. (On Back)	V					1								
Formally Proposed		V.												
Explanation Line No. (On Back)	i					† -								
* Include Man ID No. if found on	opy of	bor for	m lictin	va prop	2224	fooiliti	~~	L						



AUG 9 2005

DANSEMATION DISTRICT

A-1 Acosta 1- House in flood Plain Water Danness 1st Floor No BASEMENT, DREADING QUE. CREEK

AZ. JENNER-FERITON AREA.

STORM WATER Floods some BASEMENTS AND

VAROS. ELBSION AND Flooding ROAD WAY.

MOLE STORM CRAINS NEEDED BY TWO & STORM

WORTER CHANGE WITH STATE RED.

INTER CHANGE WITH STATE RE 30.

A-3 Community PARK AREA FERSTON
Floods BALL Fields AT TWP LEASEd
COMMUNITY PARK

A-4 FORWARDSTOWN AREA.

Some House Ensement Flooding of Twp

Rondway Flooding

Not Applicable.

				FORM C - EXIST	TING FLOOD	CONTROL PRO	DJECT	SHEE	ET OF
WATERSHEI	D	FORM COM	MPLETED	BY			TYPICAL TYPES OF	FLOOD CONTROL PROJEC	TS
Name: Municipality: County:		Name: Telephone: Date:				Channel Excar Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County U	se:	J	~ ~						
Map ID No.	Type of Flood Control Projec	et	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	od Discharge C.F.S.		Owner Name, Address, and	Phone
C-									
C-									
C-									
C-									
C-									
C-									
C-	3								

Not Applicable

						FLOOD CO	ONTROL P	ROJECT			SHEET OF		
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS		
Name: Municipality: County:		Name: Telephone: Date:					xcavation / ealignment ap			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining		
For County U	lse:												
Map ID No.	Type of Flood Control Project	Stur YES Prelim.	dy Phase B	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.		Map ID No. Form A*	Owner Name, Address, and Phone		
D-													
D-													
D-													
D-													
D-			-										
D-													
D-									-				

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

NOT KAPILICANIE

		FORM E - EXISTING STORM WATER CONTROL FACILITIES		SHEET OF
WATERSHED	FORM COMPLETED BY	PLETED BY		- endeningeningen = conf.
Name:	Name:		Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or	signed and / or
Municipality:	Telephone:		utilized to reduce the rate and / or volume of storm water runoff	er runoff
County:	Date:		from a site or sites.	
For County Use:				
Map ID No. Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
Ψ			,	
ήn				
E				
ù				
L,				
ú				
—				
FT.				
E-				
I I				
in.				
m				
iù.				
m				
T.				
E-				
m,				
m,				
E.				
<u> </u>				
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Roc Natural Pond or Wetland Sen Parking Lot Pondling	ITIES Roof-Top Stor Semi-Pervious Infiltration Dev	TES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	round Tank)	

Not Applians/a

FOF					ROPOSEDS	STORM WATER CONTROL FACILITIES	SHEETOF						
WATERSHED Name: Municipality: County:		FORM CO Name: Telephone: Date:	MPLETED I		Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.								
For County Use	:	<u> </u>				,							
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments						
F-				-									
F-													
F-		<u></u>											
F-													
F-													
=_													
=-		<u> </u>											
F-													
* Enter the stor	rm water problem area's Map l	ID No., if the pr TYPICAL T	oposed proj YPES OF S	ect will solve TORM WATI	or reduce ar ER CONTRO	ny / all of an identified drainage problem. DL FACILITIES							
Detention / Reto Natural Pond or Parking Lot Por	r Wetland					Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepa	ige / Recharge Basin or Underground Tank)						

Dot Applies Ste

\bigcirc					FORM G - E	RM G - EXISTING STORM WATER COLLECTION SYSTEMS SHEET OF									
WATE	RSHED		FORM CO	MPLETED	BY				INSTRUCTIO						
Name:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Name:			pipe size, o	or pipe direc	ction. (If unk	nown, outline t	the system	extent.) Con	show changes in system	ere specific		
Municip		······································	Telephone:			information	on constru	ction is ava	liable. Use a so	eparate forf	n for each add	ystem. Identify the point litional system 20 numbe	s Willilli a are higher		
County			Date:			System cor	isecutively ((ex. G-1,G-2	2,6-3). Sidit ili m. eo G-23 her	rine the nev	iii eacii auc if See Sam	ple Diagrams & Form on	Reverse		
N /	ap I.D.	Syc	tem's Elemen	te (v)	Г	Measurer		one system	11, 30 0-20 00	110 110 1107	Design	olo Diagranio di Totti on	Name of Final		
10	No.	Cys	items Liemen	10 (A)	Pipe		nannel / Swa	ale	Material	Year	Data	Contact Person	Ownership and		
From	To	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility		
		·····													
G-	G-					-									
G-	G-														
G-	G-														
G-	G-														
G-	G-														
G-	G-	***************************************													
G-	G-														
G-	G-							:							

G-	G-				<u> </u>	 					<u></u>				
G-	G-														
G-	G-														
	G-	······													
G-		······································							••••						
G-	G-		<u> </u>												
G-	G-								***************************************			9			
G-	G-		;							:					

^{*} See measurement key on reverse side.

Not Applicable

•															
WATER	SHED		FORM CO	MPLETED I	BY				INSTRUCTIO						
														lements, pipe size, pipe direction and	
Name:			Name:											n. Complete a separate form for each	
Municip	ality:		Name: Telephone:			4								I-1, H-2, H-3). Start the first point in e	
County:			Date:			additional system 2	20 numbers higher	(if H-3 ends one sy	stem, begin the next wi	th H-23). Be sure to	o show the p	oint where pr	oposed additions	s connect into existing systems, usin	g the map
					,·			n form and map. Se	e Sample Diagrams an						
M	ap I.D.	Sys	item's Element	s (x)		Measurer				Map I.D.	, ,	osed	Design	Contact Person	Name of Final
	No.				Pipe		Channel /		Material		Const		Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
H-	H-														
H-	H-											и-селенамента.			
	H-														
H-															
H-	H-														
H-	H-				-										
H-	H-	<u> </u>			-,								·		
H-	H-														
H-	H-														
	H-														
<u>H-</u>		***************************************													
H	H-								<u></u>						
H-	H-				<u></u>										
H-	H-							·····		:	ļ		······································		
H-	H-														
H-	H-													e	
	H-)												

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

NOT Applicable

FORM I - PRESENT &	PROJECTED DEV	ELOPMENT IN THE FLOOD HAZARD AREA	SHEETOF
FORM COMPLETED Name: Telephone: Date:	BY	FLOOD HAZARD AREA: A NORMALLY DR'	EFINITION Y LAND AREA THAT HAS BEEN OR IS TO BEING INUNDATED BY THE O.
OPMENT	Year Built	Contact Person Name, Address and Phone	Comments
	ļ		
	FORM COMPLETED Name: Telephone:	FORM COMPLETED BY Name: Telephone: Date: OPMENT Year	POTAN CONNECTED 5 Name: Telephone: Date: PLOOD HAZARD AREA: A NORMALLY DR SUSCEPTABLE T 100-YEAR FLOOD OPMENT Year Contact Person

NOT Replicable

\bigcirc				JALITY PROBLEM AREAS SHEETOF										
WATERSHED				FOF	RM CC	MPLI	TED	BY						
Name:				Name										
Municipality:							·							
County:				Date:								······································		
SITE	IJ-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-		
Types of Water Quality Problems														
High Community Tolerence						1				İ				
High Temperature				1		1								
High Turbidity			1	1										
Hydrocarbon Pollution									ŀ					
Low Community Diversity				1										
Low Dissolved Oxygen						1						'		
Low pH						1			ļ					
Nutrient Enrichment]					
Poor Habitat									ł					
Other/Explanation Line No.					l									
Potential Cause(s)														
Agriculture														
Construction Site				1			İ							
Erosion				1										
Lake Discharge						1								
STP Outfall														
Other/Explanation Line No.					<u> </u>									
Frequency				<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>					
Year Most Recent Occurence							1							
Year First Known Occurence				ļ	<u> </u>		L		<u> </u>					
Source of Information				<u> </u>	<u> </u>		<u> </u>							
BWA Streamwatch														
County Water Quality Study				1			:							
Driveby														
UCCD Complaint Investigation								1						
							•							
Other/Explanation Line No.		<u> </u>		<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	<u> </u>	<u> </u>	<u> </u>			
	EXPL	<u>ANAT</u>	ION LI	NES										
1														
2	· ·							_						
3														
4				····										
5					·									
6							·······							
7		·····		·····						·····				
8														
9								······································	······································					
10														

	FORM	A-STO	ORM W	ATER P	ROBLEN	AREA	s				SH	EET_	_	c	F_	<i>-</i>
VATERSHED		FOI	RM CO	OMPLE Pag Ka	TED B	Y Z	Before Filling Out Form, See Instructions On Back									
lame: Stony cante Ro	400	Nam	e:Hn	114/	Kuzs	RVC										
Name: Story cante R. Municipality: Indian Later	Rose	Tele	phone:	8147	5480	7	For (Count	v Use	:						
County: Some SET		Date	:	6	.10.	03			,							
/AP NO. *	A-	A-	A-	A-	A-	Α-	A-	A-	A-	A-	A-	A-	A-	A-	Α-	A-
ypes of Storm Water Problems			<u> </u>										<u> </u>			
looding							<u> </u>			l						
ccelerated Erosion		<u> </u>														Τ
edimentation																Т
andslide																1
Froundwater															1	\top
Vater Pollution									T						1	
Other (Explain)														1		T
xplanation Line No.	T		T	T	T			·			T	1	1	† 	1	T
ause (s)	T									1	1	1	1	+	1	T
torm Water Volume			 	1	1		·····	†		 	1	+	+	+-	1	1
torm Water Velocity	1	 		1		T		†	\vdash	 	 	 	·	+	-	+
torm Water Direction	1	1	+	+		 		 	 	 	 	+	 	+-	+	+-
Vater Obstruction	+	1	+	 		 		 	 	 	 	 	╁┈┈	1-	+	+
Other (Explain)	-		 			\vdash		 		 	 	 	 	+	+	+
xplanation Line No.		 	+	- 	-				ļ <u>.</u>	-		-	 	+	 	┼
requency	 	 	┼					 		-			 		-	╄
			-					<u> </u>		<u> </u>		 	 		_	╄
ear Most Recent Occurred		ļ	-					<u> </u>		<u> </u>		-	 		-	\vdash
ear First Known Occurred	-	 	╀					ļ	ļ	<u> </u>	<u> </u>	-	—			╄
egularity	<u> </u>	ļ	_					<u> </u>	ļ		<u> </u>		ļ			丄
lore Than 1 Year								ļ		<u> </u>			<u> </u>	<u> </u>		
ess Than 1 Year		ļ	ļ					L		ļ			<u> </u>		<u> </u>	<u> </u>
nly During Agnes	<u> </u>							L	<u> </u>	<u> </u>			<u> </u>			<u> </u>
uration (If Applicable)	<u> </u>	ļ														
ess Than 1 Day		<u> </u>														
Day + (Enter Days)			<u> </u>													
roperty Damage	<u> </u>															
oss of Life/Vital Services	1				1											
rivate												T		·····	1	Τ
lore Than One Owner												 		1	1	T^-
ypes of Properties			1	1						T	T	1	1	 	1	1
umber of Properties			1	T	· · · · · · · · · · · · · · · · · · ·			 		†		†	1	 	† 	1
ublic (List Types)	1	 	1	1	†			 		t		 	 	1	+	+
xplanation Line No.	 	 	1	1	 			\vdash	 	 	 	 	1	1	+	+
olutions	 	 	1	1	 			\vdash		 	 	1	 	+	 	+
uggested	+	 	\vdash	+	 				 	 	 	+	 	+-	+	+-
xplanation Line No.	 	 	-	 	 				 	╁	+	┼				
ormally Proposed	 	 	 			 		\vdash				 	 	 	 	+
xplanation Line No.	 	 	+	 -	 	\vdash			 	 	-	 	 	+	-	╄
xpianation Line No.	n any of	l ther fo	I rm list	ing pro	posed	faciliti	es.	<u> </u>	<u> </u>	l		<u> </u>	<u> </u>		<u> </u>	<u></u>

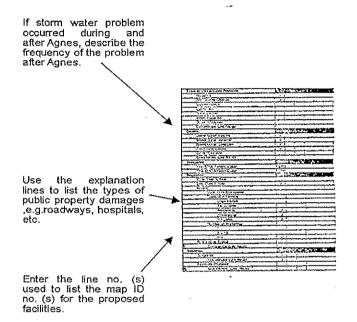
-7

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table:

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

		EXPLANATION LINES (continued)	·
-			
 			
	<u> </u>		

	BORTON	LAWSON ENGI	NEERING
Г	CLB	DR1	
1	TEL	1/ 130	1
ł			
1	TMM	JUN 1 3 2003	
-1	R.M	1 20W T Y 1002	CORRESPONDENCE
1	CIAM		D AGREEMENT
١		h	D CONTRACT
1	PG		PROJECT NO.
١	PJ個		
١		The second second second second second second second second second second second second second second second s	×

Name: Stonycreek River Name: Robert T. Pyle Before Filling Out Form, See Instructions On Back Name: Robert T. Pyle Name: Robert	,						•									
Name: Stonycreek River Municipality: Indian Lake Boro County: Somerset Map NO.* A-1 A-2 A- A- A- A- A- A- A- A- A- A- A- A- A-			FORM	A - STC												
Name Stonycreek River Municipality:	WATERSHED)		FO	RM CC	MPLE	TED	3Y								
MAP NO. * A-1 A-2 A- A- A- A- A- A- A			*****						Le				———			
MAP NO.	1 -		BOLO							Coun	ty USE	3 :				
Types of Storm Water Problems	County.	Somerset	······	Date	•	Augu	ist 9,	, 200	4							
Flooding	MAP NO. *		A- 1	A-2	A-	A-	A-	A-	А-	A-	A-	A-	Α-	A-		
Accelerated Erosion	Types of Storm	Water Problems												T		
Sedimentation	Flooding													Ţ		
Landslide	Accelerated Eros	ion										T		1		
Groundwater	Sedimentation		X	Х				1			Ī	1		T		
Water Poliution Image: Company of the com	Landslide							T				T				
Other (Explain) Explanation Line No. (On Back) Explanation L	Groundwater				1											
Explanation Line No. (On Back) Cause (s) Storm Water Volume X	Water Pollution]	\top				
Cause (s) X X Storm Water Volume X X Storm Water Volocity Image: Control of the C	Other (Explain)															
Storm Water Volume	Explanation Line	No. (On Back)			1					1		1	\top	1		
Storm Water Velocity Storm Water Direction Storm	Cause (s)													1		
Storm Water Direction Water Obstruction Storm Water Obstruction	Storm Water Volu	ıme	Х	Х							 		1	†		
Water Obstruction Other (Explain) Explanation Line No. (On Back) Frequency Year Most Recent Occurred 2005 Year First Known Occurred Regularity More Than 1 Year X Less Than 1 Year Only During Agnes Duration (If Applicable) Less Than 1 Day 1 Day + (Enter Days) Image: Company of the property Damage Loss of Life/Vital Services Image: Company of Properties Private Image: Company of Properties Number of Properties Image: Company of Properties Public (List Types) Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties Solutions Image: Company of Properties <td>Storm Water Velo</td> <td>ocity</td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td>-</td> <td></td> <td><u> </u></td> <td>1</td> <td></td> <td>1</td> <td> </td>	Storm Water Velo	ocity					<u> </u>	-		<u> </u>	1		1	 		
Other (Explain) Explanation Line No. (On Back) Frequency Year Most Recent Occurred Year First Known Occurred West First Known Occurred Regularity More Than 1 Year More Than 1 Year X Conly During Agnes Only During Agnes Duration (If Applicable) Only During Agnes Less Than 1 Day Image: Control of the	Storm Water Dire	ction							<u> </u>		†	1	+	1		
Explanation Line No. (On Back) Freguency Year Most Recent Occurred Year First Known Occurred Regularity More Than 1 Year Conly During Agnes Duration (If Applicable) Less Than 1 Day 1 Day + (Enter Days) Property Damage Loss of Life/Vital Services Private More Than One Owner Types of Properties Number of Properties Public (List Types) Explanation Line No. (On Back) Solutions Solutions Suggested Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back)	Water Obstruction	า					1	†		†	\vdash	 	 	†		
Explanation Line No. (On Back) Frequency Year Most Recent Occurred Year First Known Occurred Regularity More Than 1 Year Conly During Agnes Duration (If Applicable) Less Than 1 Day 1 Day + (Enter Days) Property Damage Loss of Life/Vital Services Private More Than One Owner Types of Properties Number of Properties Public (List Types) Explanation Line No. (On Back) Solutions Solugested Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back) Explanation Line No. (On Back)	Other (Explain)	· · · · · · · · · · · · · · · · · · ·									\vdash		1	 		
Frequency 2005	Explanation Line I	No. (On Back)								 		 	 			
Year Most Recent Occurred 2005						 	1		 	 	 	†	┼──	 		
Year First Known Occurred Regularity More Than 1 Year X X Less Than 1 Year ————————————————————————————————————		Occurred	2005	2005						\vdash		 	1	 		
More Than 1 Year X X	Year First Known	Occurred								 		1	\vdash	 		
Less Than 1 Year Only During Agnes Duration (If Applicable) Duration (If Applicable) Less Than 1 Day Duration (If Applicable) Less Than 1 Day Duration (If Applicable) Less Than 1 Day Duration (If Applicable) Less Than 1 Day Duration (If Applicable) Less Than 1 Day Duration (If Applicable) Property Damage Duration (If Applicable) Loss of Life/Vital Services Duration (If Applicable) Property Damage Duration (If Applicable) Loss of Life/Vital Services Duration (If Applicable) Private Duration (If Applicable) Word (If Applicable) Duration (If Applicable) Property Damage Duration (If Applicable) Word (If Applicable) Duration (If Applicable) Property Damage Duration (If Applicable) Property Damage Duration (If Applicable) Property Damage Duration (If Applicable) Property Damage Duration (If Applicable) Property Damage Duration (If Applicable) Public (List Types) Duration (If Applicable) Explanation (If	Regularity												 			
Less Than 1 Year	More Than 1 Year	•	Х	Х	·						<u> </u>	 	 			
Only During Agnes	·····								<u> </u>	 			 	 		
Duration (If Applicable)												<u> </u>		 		
Less Than 1 Day 1 Day + (Enter Days) Property Damage 2 Description Loss of Life/Vital Services 3 Description Private 4 Description More Than One Owner 5 Description Types of Properties 5 Description Public (List Types) 5 Description Explanation Line No. (On Back) 5 Description Suggested 5 Description Explanation Line No. (On Back) X X Explanation Line No. (On Back) 3 Description Explanation Line No. (On Back) 4 Description Explanation Line No. (On Back) 5 Description Explanation Line No. (On Back) 5 Description									<u> </u>			\vdash		 		
1 Day + (Enter Days)													 	 		
Property Damage		vs)							· · · ·	 						
Loss of Life/Vital Services			1									\vdash				
Private																
More Than One Owner																
Types of Properties Number of Properties Public (List Types) Explanation Line No. (On Back) Solutions Suggested Explanation Line No. (On Back) X X Formally Proposed Explanation Line No. (On Back)		wner														
Number of Properties																
Public (List Types)													-			
Explanation Line No. (On Back)																
Solutions Solutions Suggested Suggested Explanation Line No. (On Back) X X Formally Proposed Suggested Suggested Explanation Line No. (On Back) Suggested Suggested																
Suggested Image: Compact of the compact o	·····	(+													
Explanation Line No. (On Back)			 					-								
Formally Proposed Explanation Line No. (On Back)		lo. (On Back)	T _X	$\frac{1}{x}$												
Explanation Line No. (On Back)			 					-								
			- 							-				—		
ΤΗ CHILDRE BYGGO ΤΟ 1960 ΤΕ ΤΟ UDO ΤΟ ΜΕΙΑΝ ΟΙΡΟΚΕ ΤΟΥΜΌ ΠΕΡΙΝΟ ΜΥΝΟΛΟΛΟΙ ΤΟ ΦΙΙΝΙΚΟ			n anv oth	or for	n lietin	a pror	000044	acilitis	l							

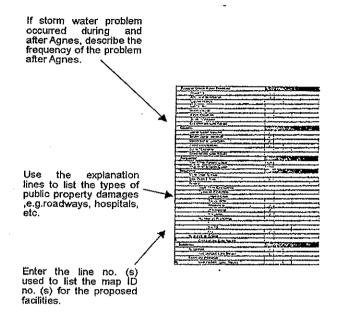
.

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc. z



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table: --

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soll or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

Al Lake is lowered every 5 years - P.B.S. removes the sediment with a bulldozer, loader and trucks.

Al Working on a solution to redirect the area of sedimentation for removal and cleanout every 5 years.

COUNTRY OF SURE

ACT 167 WATERSHED STORMWATER MANAGEMENT PLAN

FORM DESCRIPTION SUMMARY

knowledge, Township engineer, Private flood roadmaster, township Studies, Subdivision / Conservation District Owner or structure, Site Plans, General Township engineer Existing studies or reports, Township Personal memory, township engineer, Township records, township engineer, township engineer, township engineer, township engineer, township engineer, Township records, Documentation, Subdivision files. Subdivision files, owner of system owner of system Flood Insurance owner of facilitiy owner of facilitiy owner of facility owner of facility Existing plans, Existing plans, township files, Municipalities, applications, subdivision Information Sources of engineer Channel excavation, rip Channel excavation, rip Erosion/Sedimentation Subdivision / site plans Bridges, Culverts, Fill, Structures recharge basins, roofrecharge basins, roof-Storm sewers, man-Flooding, Drainage, Storm sewers, manrap, floodwalls, etc. rap, floodwalls, etc. Construction sites, Detention basins, Detention basins, made channels, made channels, top stroage top stroage diversions diversions agriculture Examples Types of Present & Projected Development in Flood Proposed Stormwater Collection Systems **Existing Stormwater Collection Systems** Proposed Stormwater Control Facilities **Existing Stormwater Control Facilities Proposed Flood Control Projects Existing Flood Control Projects** Water Quality Problem Areas Stormwater Problem Areas Obstructions Hazard Areas Description Symbol **②** • < O Ü I മ Ш Ш Form

\triangle			DJECT	SHEET_	1 OF 1				
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL TYPES OF FLOOD C	ONTROL PROJECTS	
Name: Municipality: County:	Stonycreek River Indian Lake Borough Somerset	Name: Telephone: Date:	814-754	T. Pyle 1-8387 9, 2005		Channel Excar Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County U	se:								
Map ID No.	Type of Flood Control Pro	oject	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	ood Discharge C.F.S.	Owner N Indian Lake Boroug 1301 Causeway Driv Central City, PA	9	ne
C- 1	Dam		1962	50	100		814-754-8161		
C-									
C-							4.0.000	1010 5440	
C-									
C-									
C-									
C-	š							-	

		- PROPOSED FLOOD CONTROL PROJECT SHEET 1 OF 1									
WATERSH	ED	FORM CO	MPLETED	BY			TYPICAL T	TYPES OF	FLOOD CO	NTROL PR	OJECTS
County:	Stonycreek River Indian Lake Borough Somerset	Telephone:	Robert T 814-754- August 9	-8387			xcavation / ealignment ap			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining
For County	Use:	•							•		
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Bo Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Name, Address, and Phone
D- 1	Replace sluice gate	Yes			2008					A1	Indian Lake Borough 1301 Causeway Drive Central City, PA 15926 814-754-8161
D- 2	Embankment works modification/remediation	Yes			2008					A1	Indian Lake Borough 1301 Causeway Drive Central City, PA 15926 814-754-8161
D-											
D-											
D-											
D-	·										
D-											

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond			FORM E - EXISTING STORM WATER CONTROL FACILITIES		SHEET 1 OF 1
WATERSHED		FORM COMPLETED BY	LETED BY	TRANSPORTED TO THE PROPERTY OF	
Name: Municipality: County:	Stonycreek River Indian Lake Borough Somerset	Name: Telephone: Date:	Robert T. Pyle 814-754-8387 August 9, 2005	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	signed and / or r runoff
ığ.			And the state of t		
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Conments
Ę.	The Dam	1962	Harry Huzsek	1301 Causeway Dr., 814-754-8161	
ம்					The same of the sa
ù	A SALARA CONTRACTOR CO				THE PARTY OF THE P
ய்					The state of the s
ய்					
ம்					
ù					
ய்					
щ					
ü					
ц	The state of the s				
ιù					
ய்					
ய்					
ψ̈́	And the state of t				
ய்	S. A. C. C. C. C. C. C. C. C. C. C. C. C. C.				
Ü					
ú					
-ii					
ய்					
ان					
ய்					
TYPICAL TYPES OF ST Detention / Retention Bas Natural Pond or Wetland Parking Lot Pondling	TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Roo Detention / Retention Basin Natural Pond or Wetland Serr Parking Lot Pondling Infilt	TIES Roof-Top Storage Semi-Pervious Pav Infiltration Device (IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	nd Tank)	

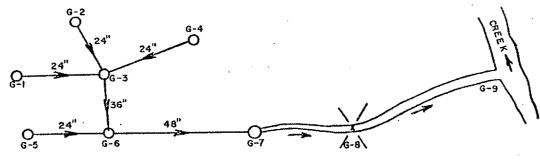
•				FORM F - P	ROPOSED	STORM WATER CONTROL FACILITIES	SHEET 1 OF 1
WATERSHE	D	FORM CO	MPLETED	BY		DEFINITION Storm Water Control Facility	
Name:	Stonycreek River	Name:	Robert 1	. Pyle		A natural / man-made device or struct	ure specifically designed and / or
Municipality:		Telephone:	814-754-	-8387	1	utilized to reduce the rate and / or volu	ume of storm water runoff
County:	Somerset	Date:	August 9		1	from a site or sites.	
For County L	Jse:						
Map ID No.	Type of Storm Water		Proposed C	onstr. Dates	Map No.	Contact Person	Comments
	Control Facility		Start	End	Form A*	Name, Address and Phone	
F- 1	Raising Dam by 4 feet		2008		A1	Indian Lake Borough, Harry Huzsek 1301 Causeway Dr. 814-754-8161	The flood plain around the dam will raise
F-							to an elevation of 1196 feet. This will put approximately 100 homes on the flood
F-							plain. The DEP is requiring the dam to be capt with 4 feet of concrete. Will
F-							FEMA notify the home owners and cover the houses with insurance.
F-							
F-							
F-							
F-							
F-	L. J. MANNAY AND AND AND AND AND AND AND AND AND AND						
F-							
F-							
* Enter the s	I torm water problem area's Map IE	No., if the pr	L oposed proj YPES OF S	L ect will solve TORM WATI	or reduce a ER CONTRO	I ny / all of an identified drainage problem. OL FACILITIES	
Detention / R Natural Pond	etention Basin or Wetland					Roof-Top Storage Semi-Pervious Paving	
Parking Lot F	Pondling					Intiltration Device (Seepag	e / Recharge Basin or Underground Tank)

\bigcirc					FORM G - E	XISTING S	TORM WAT	TER COLLE	CTION SYSTI	EMS		SHEET 1 OF _	1		
WATERSHED Name: Stonycreek River Municipality: Indian Lake Bor County: Somerset			Telephone:	Robert T	-8387	INSTRUCTIONS Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.									
	ap I.D. No.		em's Elemen	ts (x)	Pipe D	Measurer			n, so G-23 beg Material	year Constr.	t. See Sam Design Data Available	ole Diagrams & Form on Re Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility		
From G-	To G-	Pipe N/A	Open Channel	Swale	D	1 44	ь	Берит		Oonsa.	/ Wallable	Traine did Fronc	matrial ac Adaptions		
G-	G-														
G-	G-				***************************************										
G-	G-				***										
G-	G- G-														
G- G-	G-	***************************************													
G-	G-														
G-	G-	***************************************													
G-	G-														
G-	G-														
G- G-	G-	······································		A											
G-	G-	<u></u>													
G-	G-		;												

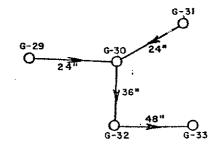
^{*} See measurement key on reverse side.

Measurement .
Key
D = Diameter

TW = Top Width B = Bottom Width



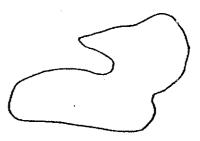
SAMPLE DIAGRAM FOR SYSTEM ONE



SAMPLE DIAGRAM FOR SYSTEM TWO

SAMPLE FORM (System One Only)

1.50							*KI	mind to		COLLISION	4 \$1419M		2011			
TÉ OFFÉTEN CONFETTO BY								- 84		long on glob record for the belong and and						
14					. >	·					Equipment and private to sever in more derived, private the day of the desired, private private first sprivat more.)					
14,-4					Total	Torontoro										
<u></u>					Del	Deta					Company that pursue origins a symmal communication (etc. \$1, \$2, \$20, found the Part purise in man implicate options for communication for the communication of the communication					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										··· [7-2			
_=		ļ	,		1				North	<u></u>	=	There and Proper	************			
=		<u></u>	9-2-4	-				27.7				1				
Ġ1	41	,	1		24"				OMP.	1978	Yes	Julya Days 123-4567	Servey of ASC			
G3	63	,			у.				1000	1978	۲	3,6m Gas 12341417	Range of ARC			
٠	63	 -	 	<u> </u>	74-					1978	Y=4	Jan. Dag. 1274147	teraph of ASC			
	G-a		 	-					0.0	1875	Yes	Aire Dec 123-462	Bursuph of ARC			
	64	,-	<u> </u>		ж.	-	-	-	200	1976	Y=	304 Oct 123-1982	1 mm of 1300			
G4	67	,	1-		-		\vdash	-	-	1878	Yes	Jules Oan 123-1947	Broup of ASC			
	G4	-	—	<u> </u>	-	u-	<u></u>	м.	Corena	1997	Υm	Jan Dan 1254987 -	Surveys of ASC			
	64	\vdash	 	,	一	e4.	*	м.		-1			Surveys of ARC			
<u> </u>		_	 		 	\vdash	-									
	<u> </u>	╄	ļ	 	ऻ—			├			-	·				
æ	٥	l	1		<u>L_</u>	<u></u>		L	<u> </u>		<u> </u>	ļ	<u> </u>			
a	-	1				I	1		İ	ŀ		1	1			



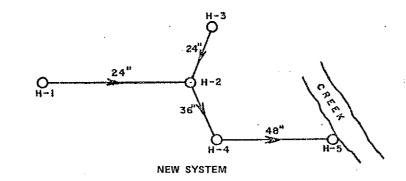
Outline known areas where construction exists but construction data is unavailable.

•					FORM H - F	PROPOSED	STORM W	ATER COL	LECTION SYS	STEMS			SHEET_	1OF1_	
WATER	SHED		FORM COI	MPLETED	BY			,	INSTRUCTIO	NS					
						On the map for pro	posed storm water	collection systems	, diagram each propos	ed system. Indicate	a map point	to show char	nges in system e	elements, pipe size, pipe direction and	connections
Name:	Stonycr	eek Rive	Name:	Robert 7	r. Pyle	to existing systems	s. For proposed add	ditions to existing s	ystems, diagram only th	e additions and the	ir connection	n point into th	e existing system	n. Complete a separate form for each	proposed.
Municipa	ality: Indi	an Lake	Telephone:	814-754-	-8387	new system and o	ne for each existing	system having one	e or more proposed add	ditions. Identify the p	points within	a system cor	seculively (ex. h	4-1, H-2, H-3). Start the first point in ea	ach
	Somerse			August 9		additional system :	20 numbers higher	(if H-3 ends one sy	stem, begin the next wi	th H-23). Be sure to	o show the p	oint where p	roposed addition	s connect into existing systems, using	the map
1			1	····		point number from	the existing system	n form and map. Se	e Sample Diagrams an	d Form on Reverse					
Ma	ap I.D.	Syst	em's Elemen	ts (x)		Measurer	nents *			Map I.D.		osed	Design	Contact Person	Name of Final
1	No.	-			Pipe	Open	Channel /	Swale	Material	Nos.**		. Dates	Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Ayail.	Phone	Maintenance Responsibility
H- 1	H- 1	Х	х		3'					A1			2008	Robert T. Pyle 814-754-8387	Indian Lake Borough
H-	H-														
H-	H-														
H-	H-										j				
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-											·			
H-	H-	***************************************													
H-	H-														
H-	H-														
H-	H-														
H-	H-													\$	
H-	H-		<i>;</i>										, ,	droinaga probleme	

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

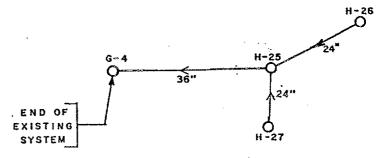
Measurement
Key

D = Diameter
TW = Top Width
B = Bottom Width



SAMPLE FORM (New System Only)

Page 1	-dh-				Ka.				_ =			~~	3=		processing absolute cody play additional and gody stay processing professional gody stay formation professional last cody study of photographic accounts (last published)
~=	A	F		¥1	-					10	<u>. ^-</u>	=	=	E-12 FE	The Street of
	11-2	_te_			,,	-77-	•	_0==0	Date .	A1	i	1963	Ym	Des 1234147	Sweeth of ASC
H)	H2	_			74-		- -		O#	м	1967	1963	v	Julya Darp 123-4947	Serveyh of ASC
#1	-	,	·-		" -				5.00°	A-2	1987	1943	Yes	35m Das 125-4987	Bersuph of ABC
H4	ия	,			4-				G.#	A-2	1942	1003	Yaq.	John Com 122745487	Swamph of ASC
н		Г			1								<u> </u>		
*	#	_		[Г										
,,	ъ	 			Π						L		L		
н		T			Π										
*	*	T-	-		1						L				
14	,,	1	 		T	Γ								<u></u>	<u> </u>
76			-	-+, (O. Per.	-			<u> </u>		** **	- ~	the same		



20

ADDITION TO EXISTING SYSTEM

	FORM I - PRESE	NT & PROJEC	TED DEVEL	OPMENT IN THE FLOOI) HAZARD AREA	SHEET 1 OF 1
Municipal County:	Stonycreek River Name: ity: Indian Lake Bord Telephone: Somerset Date:	Robert T. 814-754-8 August 9,	387	FLOOD HAZ		DEFINITION ORY LAND AREA THAT HAS BEEN OR IS LE TO BEING INUNDATED BY THE OOD.
For Coun Map ID No.	TYPE OF DEVELOPMENT	Year Built 1962	Robert T	Contact Person Name, Address and Pho	one	Comments The existing flood plain around the entire lake will
l- 1 l-	Recreation and year round home	to present		nseway Drive City, PA 15926	814–754–8387	be raised by 4 feet placing an estimated 100 homes in the flood plain.
1 -					All three bloodings of All three bloodings of the state o	
1 -					And the second s	
1 -						
l -						
1-						
] -						
l -				No. of the second secon		

\Rightarrow		FORM	J - WA"	TER QU	ALITY P	ROBLE	M AR	EAS	SHEE	r1_	o	F 1	
WATERSHED					FOF	RM CO	MPL	ETED	BY				
Name:	Stonycreek	River			Name	∋:		Robe:	rt T	. Py:	le		
Municipality:	Indian Lake		ugh		···I	hone:		814-				*******	··········
County:	Somerset	<u></u>			Date:			Augu			05		
					1 2.3.					·			
SITE		J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Q	uality Problems						T						
High Community T	olerence	-											
High Temperature		N/A											
High Turbidity		1											1
Hydrocarbon Pollut	tion												
Low Community Di	versity												
Low Dissolved Oxy	gen												
Low pH													
Nutrient Enrichmer	nt			1									
Poor Habitat												1	
Other/Explanation	Line No.			<u> </u>					<u> </u>	<u> </u>			
Potential Cause(s)	L			<u> </u>		<u> </u>				<u> </u>		
Agriculture													
Construction Site							1		1]		
Erosion					İ								
Lake Discharge													
STP Outfall										İ		ł	1
Other/Explanation I	Line No.												
Frequency			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u></u>			
Year Most Recent	Occurence				l		1	ŀ					
Year First Known C	Occurence	<u> </u>							<u> </u>				
Source of Informa	tion	<u> </u>		<u> </u>			<u> </u>		<u> </u>	<u> </u>		1	
BWA Streamwatch											l		
County Water Qual	ity Study			1									
Driveby													
UCCD Complaint Ir	nvestigation												
Other/Explanation I	ine No.												
		EXPL	ANATI	ON LI	NES	l							
1								·····	************	····			
·····			·····			·							
2 3 4 5		***************************************	~~~~~~~~	·····	······								
4													
5						,,						***********	
6					····	······································							
7													
8													
9													
10									·····			***********	

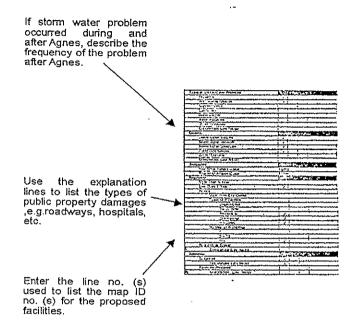
	FORM	A - STC	RM W	YER P	ROBLE	M AREA	s				SH	EET_	i	0	F	**
WATERSHED					ETED		Befo See	ore Fil Instru	lling Cuction	ut Fo	rm, Back				···	
Name:	9	Name		rates of S	100	<u> 19 M.</u>	<u> </u>							÷		
Municipality: County:) [JAN]	Telep	phone:	2/6	6-41	91	For	Coun	ty Use) :				······································		
County: County		Date:		119 00	17-7	28	ļ									
MAP NO. *	IA a	A (5)	I A 89	1.4	· r.	· r.	<u> </u>			·						
Types of Storm Water Problems	A-1	A- 🛴	A-,©	A-	A-	A-	Α-	Α-	A-	Α-	_ A	A-	A-	A-	Α-	Α-
Flooding		-	-				 		-	┼	- -		ļ	-		
Accelerated Erosion	3,41	Acres 11111	Valent		 		 			╂		-├		 	 	
Sedimentation	1	Age.	V	+	+		 			 	- 		 	 	 	-
Landslide		400		 			-	- 	┼			 	 -		-	
Groundwater		·		- 	- 	- 	-	+-	- 	 	-	┼	 	 	 -	
Water Pollution		 	├──	+	~}	+		┼		┼	┼—	-	 	 		
Other (Explain)		 		 -					-	┼──	-	·	ļ	 	 	
Explanation Line No.		†	 	+	+-	+		+	+	┼─	 		-	 	₩-	4
Cause (s)	1		 	+-	-	-	 	+	+	+	┼	-	┤──	 	┼	1
Storm Water Volume	V.	Veren	V	+	1	-	 	+	+	-	+	 	 -	-	-	1
Storm Water Velocity	Vario .	Vigoritin .	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	 			 	 	╅	┼─	 	<u> </u>	 -	├──	ļ	
Storm Water Direction		 ``	Variation	+			 	┪	 	\vdash	 	 	├──	├──		┼
Water Obstruction		·	k.	 		 	 	 		┼	-		 	-	-	╀──┤
Other (Explain)	T	1		-	- 		_	+		╂	-	·	 	┼	ļ	
Explanation Line No.	2+2			 		 		 	 		 	·	 	 	-	
Frequency	1,000			 			 	 	 		┼	 	 	-	 	┼
Year Most Recent Occurred	03	23	03				 -	-		 		╁──	ļ	<u> </u>		┼
Year First Known Occurred	136	365 365		 				╂		-	┼		<u> </u>	ļ	 	┼
Regularity	1	 	 	 		+		\vdash	<u> </u>		┼	-	 	 		
More Than 1 Year		V	Variety.	1						-	 		ļ	<u> </u>	ļ	
Less Than 1 Year	 ```	- v	<u> </u>	1				┼	 -	 	 	 	<u> </u>	ļ	ļ	-
Only During Agnes							<u> </u>	 	 	 	 	 	ļ	 	<u> </u>	
Duration (If Applicable)	·							┼		├	 	- 		-	ļ	11
Less Than 1 Day				-				 	-	 	·	 	-	ļ	ļ	11
1 Day + (Enter Days)	†			-	- 	-		-	 	 	·	 	 	ļ	 	+
Property Damage	 							 	-	┼──	 	 			 	+
Loss of Life/Vital Services				-						 	-	 			 	1
Private	 			 	-			┼	╂	 	 					
More Than One Owner	 							┼	╂	 	 	-	 		ļ	
Types of Properties	 			·		-		╂	-	<u> </u>		-	ļ	 	ļ	┼
Number of Properties	 	 		-				 		 	<u> </u>		 	ļ <u>.</u>		
Public (List Types)	 		 	 	 	 		┼		-	 	 	<u> </u>	 	 	
Explanation Line No.	1	 	 	+	+	-		 	 	-	-	ļ	<u> </u>	ļ <u> </u>	 	
Solutions	1			\vdash				 	 	 	 	 	 	ļ	 	
Suggested	1	larer.	V	+	_			-	 	 	 	<u> </u>	 	 	 	
Explanation Line No.	- Q	2	7).	+		 		 	 	 	 	 	<u> </u>	 		
Formally Proposed	 		2002	 		 		 	 	 	 	 	<u> </u>	 	ļ	┼
Explanation Line No.	 			<u> </u>	+	 		 	 	 	 	 		ļ	<u> </u>	1
* Include Map ID No. if found or	n any of	her for	m lieti	na pro	N0004	faciliti		1		<u> </u>	<u> </u>	Щ.	L	L	L	
EXPLAINATION LINE(S) 1) 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	<u> </u>	2777			Ser.	145		ÎN	<i>156</i>	Tagentin Control		4	A QL	AS	tion	
6)							·····									*******
7)								·	···········			, 1	UN	8 7	107	
0/	······································											1,7	~ ~ · ·	8 (1)	11.71.7	

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

 EXPLANATION LINES (continued)
 _

BOROUGH OF FERNDALE

109 STATION STREET JOHNSTOWN, PA 15905 PHONE: 814-288-1771 FAX: 814-288-5910

Memorandum

To:

ROBB PIPER

From: BEVERLY

Subject:

DOCUMENTS

Date: JULY 12, 2005

DEAR MR. PIPER

YOU WILL FIND ENCLOSED OUR COMPLETED DOCUMENTS PER YOUR REQUEST.

YOU MAY CALL BRIAN AT 814-288-0472 IF THERE ARE ANY QUESTIONS. NORMAL HOURS ARE 7:00 A.M. -11:30 A.M .- 12:30 P.M. - 3:00 P.M., MONDAY THROUGH FRIDAY.

SINCERELY

BEVERLY E. ROTH

ENCLOSURE

WATERSHED		LEO	20400	MADLE	TED D	V	Def	no Fil	line: C	V.4 F	<u></u>	
WATERSHED		FOI	KIVI UC	NNLLF	TED B	Υ		re Fil Instru				
Name:		Name	a. BK	140	MEAT	EER	366	1115010	CHOIT			
Municipality: FERNDALE	Boss	-		-	88-0		For	Count	v I lee	7.3	1077	
County: CAMBR		Date	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1-05		1 0 ,	Ooun	y Ose			
-	- Salan francisco de la companyone de la	\sim	11	11/01		14	60	80.	6.		Ro.	
MAP NO. *	A- /	A- 1	A-3	A-4	A-5	A-	A-	A-	A-	A-	A-	A-
Types of Storm Water Problems	1	- 67		1	12,40					2	10.0	
Flooding	3 31								, ,		1 1	
Accelerated Erosion												
Sedimentation												
Landslide		2-19	20 5	ς,		177	N	10	17	25 4	4. 11	
Groundwater												
Water Pollution	V 24	1360	1860	47.	30		W	16 8	100	1	Link	_
Other (Explain)								<u> </u>				
Explanation Line No. (On Back)												T
Cause (s)												T
Storm Water Volume												T
Storm Water Velocity												\Box
Storm Water Direction											T	
Water Obstruction												
Other (Explain)									İ			
Explanation Line No. (On Back)	1										1	\vdash
<u>Frequency</u>												
Year Most Recent Occurred	2005											1
Year First Known Occurred	?											t
Regularity												
More Than 1 Year										 		\vdash
Less Than 1 Year	V										T	<u> </u>
Only During Agnes											 	
Duration (If Applicable)												
ess Than 1 Day										1	 	
1 Day + (Enter Days)		~									 	
Property Damage			-							-	 	
oss of Life/Vital Services											 	
Private							***************************************					
More Than One Owner			-								—	
Types of Properties												
Number of Properties						-+	~					
Public (List Types)			V			-						
Explanation Line No. (On Back)	\dashv					-+						
Solutions												
Suggested	1			V		-+					 	
Explanation Line No. (On Back)	\vdash			-		\dashv					-	
Formally Proposed	-					-+						
Explanation Line No. (On Back)												

A - 1 - BASIN DRAINING OVER MILLSIDE

A-2 WHENEVER IT RAINS

A-3 ROAD CLOSED PERIODICALLY

A-4 PIPE IT OVER THE HILL TO AN EXISTING BASIN

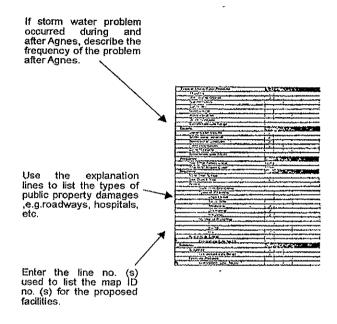
A-5 STATE MET WITH US 6-24-0.5 CONCERNINS This PROBLEM - NO SOLUTION AS YET.

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm An area that defines the tarthest extent or a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Water in the ground below the water table. --

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on

Water Obstruction

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

 EXPLANATION LINES (continued)
 100

060319990915

PHONE NO. 814-288-1771 FAX NO. 814-288-5910

FAX MESSAGE

ra: CAMBRIACOCONS. District

FROM: BOURYLY

DATS: 6-18-03

TIME: 2:13 0000

TOTAL PAGES (INCLUDING COVER):

SUBJECT: Act 167 Survey

			FORM	Α-	STO	RM W	ATER P	ROBLE	VI AREA	S				SH	EET_		<u>_</u> 0	F	_/
WATERSHED	9	1	2	1 :	1		OMPLE			C	ore Fil Instru	41 .	_	rm. Back			***************************************		
A DISTALLA	Stonyercek Ferndale B Combria	~	IVER	7	31111	≝. .L_na	Wille.	· Correl	1	<u> </u>									
Musicipality.	rerndate B	6/	·ugh		eiet	mone	· <u>874</u>	- 287	5-1771	hor	Coun	ty Use	; ;						
ωμαπy.	CAMBAIA	-	<u> </u>	טו	aic.		6	:/7:2	1003	-									
MAP NO .	<u>.</u>		A	Α		A-	7~~~	7.	1.			-1.	1.			т	-r		· · ·
ypes of Storm V	Žata i Hristonia	<u>; </u>	<u> </u>	1		M	A-	- A-	A-	Α-	A-	Α-	A-	A-	A-	Α-	Α-	A۰	<u> IA</u>
	astor Problems	1.	 	-				- -			ļ		 	↓	ļ	<u> </u>	ļ	-	\perp
Coelecated Eros		 		+	<u>. </u>	-	-		 	<u> </u>	 -		╄	-	╄—	ļ		_	_
Secomentation		}		-						 	-			ļ	 	╄━┈	 	ļ	4
antslide		•		-	· :			-	╁	-	 -	<u>-</u>		-	-	 	- 	 	╄
Stoundwater	· · · · · · · · · · · · · · · · · · ·	•		 	:	├─	+	 	 		 	┼	 	-	┨	 	-	├	╇
Nater Pollution		;	<u> </u>	┪	<u>!</u>	 			 	-	 	-	╂	┪		╂	-		┿
Other (Expain)				十	······································	 		1	╅╾╌		 	-	1	+	╁	┼─	┼		+
xolariation Line I		; :			 -		1	1-	 		1-	 	†	 	1	-	┿	 	+
Duse (s)		}	1 .		!		1	1	1	f	1 -	1-	1	 	1	1	 	 	+
Storm Water Volu	me	- -		T	:	†		1-	1	 	†	1	 	1	 	1	†	+-	+
torni Water Velo	ply			Τ			1		1	 	†	1	1-	1	I	1	1	1-	+-
tom Water Gree	tion			T		1.	1		1	 	1	1	†	†	1	 	+	 	+
Mater Obstruction		i i		Τ		1	1	 	1		1	1	†	 	1	T	1 -	+	+-
Office (Explain)	ilyn e e	1:	ì	Γ	()	1	1	1	1.	 	1	1	1	1	1	1	†	1	+
apanation Line		;			1		1		 		†	1	†	1	1		1	+-	+
requency		1	1	Π					1		1	1	1		1	1	†	 	†
ea Most Recent					-	1		1			†	1	†	1	 	1	1	1	†
rea First Known	Documed								1		1			1	1	1	T	1-	\top
Regularity					;				1		1	1	†		T			1	T
More Than 1 Year			ì		£				T				1		†	1	T	1	1
ess Than Year		L		L	į.										1			 	1
Only During Agne	¥	<u>!</u> .																1	Τ
Deretion (II Appl	cable)	٠	<u> </u>	<u>L</u>	1							1							I
ess Than Day	1	ļ.,		L	1				<u> </u>										
Day + (Enter Da	(8)			l	: . }						<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>		
Property Damage		; -		1_	1 1	ļ					 	ļ	<u> </u>	 	1				_
Loss of Life/Viral S	ervices	٠		∤ _		↓			ــــــ		ļ	<u> </u>	↓	ļ	ļ	↓	<u> </u>	1	丄
More Than One C	J	1	-	١	نسأ	 			 	ļ	 	 	↓			<u> </u>	 		╄
Types of Propertie		i	-	+-	-	├		+		 	 	╄	ļ	├ —	 	 	 	1	╄
Number of Proper		+	ļ	-	+	 	-		+	<u> </u>	 	┦	 	.↓	ļ	┼	╀—	 	╀
ublic (List Types		÷	1 :	-	-			 	┿-	├—	-		╂	₽	 				
Explanation Line I		÷		\vdash	- -	 		+	+		-	+	+	┼	+	+-	 -	-	+
Solutions	}	<u>;</u> :		╀	1	1	+	+	+	 	+	+	+	 	+	 	+-	╂	+-
Suggested	1	÷		+-	-	 		-			 	 	╂		+	-	-	+	+
Explanation Line I	šo.	1		1	1	 		1-	+			 	 	 	+	 	+	+	+
orinally Propose		+		1	+	1	1	+	┪	 	-	+	+	1	+	+	 	+	+
manation Line I		-	 	+		1	+	 	 	}	1	†	1	1	1	+-	1-	+	+
	D No. If found	br	anv o	he	r fn	rm lis	tina ar	oposec	facilit	ies		1	·	.1	1			ш,	
	<u>'</u>	1			,														~
XPLAINATION L	INE(S)	ì		:	: :														
1) 5/01- 6	vates pro	4	ens		dr.	. 4	<u>ddres</u>	5001	₫	H.	• 7	aris		and	ar	4 C	orre	a fe	L.
2) 10 41	yete pro	ġ,	7 0/	170	1	PR	BCER	15	ARE	10	6051	FIAS	Ce	FOR	2_ <i>f</i>	ERN	BACE	Bo	Ro
3)]		1:]:														
4)	Garage Control	1.	, 1		:														
5)r.		1.	1		 خسن											·			
5)		1																	
D									~~~~										
	1			<u>. </u>															
		1.3		Ì															

\triangle				FORM C - EXIST	TING FLOOD	CONTROL PRO	OJECT	SHEE	ETOF
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL TYPES OF	FLOOD CONTROL PROJEC	TS
Name: Municipality: County:	FERNDALE BORG CAMBRIA	Name: Telephone: Date:	BRIAN 814-288 3-1	MEATEER 6-6472 -05		Channel Excar Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County U	Jse:								1
Map ID No.	Type of Flood Control Project		Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and	Phone
C-	NOT	LE							
C-									
C-									
C-				-					
C-									
C-									
C-	\$								

				FORM D - P	ROPOSED	FLOOD CO					SHEET OF /
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF	FLOOD CO	NTROL PR	OJECTS
Name: Municipality: County:	FERNOALE BORO CAMBRIA	Name: Telephone: Date:	BRIAN 514-28	MEATEER 8-0412 05			xcavation / ealignment ap			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining
For County U	se:										
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Bo S Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.		Map ID No. Form A*	Owner Name, Address, and Phone
D-	NOT								3		
D-	APPLI	CABL	Ē								
D-											
D-											
D-											
D-	i										
D-											

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond			FORM E - EXISTI	FORM E - EXISTING STORM WATER CONTROL FACILITIES	ONTROL FACILITIES	SHEET OF !
WATERSHED		FORM COMPLETED BY	LETED BY			
lity:	FERNOALE BORO	Name: Telephone:	BRUAN MS	45 4TEER 5-0432	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff	designed and / or ster runoff
County:	CAMBRIA	Date:		50	from a site or sites.	
For County Use:						
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person		Address and Phone	Comments
E- 1 -	BASIN TO BASIN	2004	BRIAN	19:47EER	109 STATION ST.	CLOSED SYSTEM
E- 2	BASIN TO GABION	2004	BRIAN	Mª ATEER	Johnstown, PA 15905	PIPE TO DISBURSENEUT
÷						
Ē-						
E-						
E-						
ь						
Ē-						
Ē-						
Ē-						
ф						
ш						
Ę.						
Ė.						
ú						
ம்						
ψ						
ú						
ш						
ш́						
ú						
ú						
TYPICAL TYPES OF STOR Detention / Retention Basin Natural Pond or Wetland Parking Lct Pondling	TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	.ITIES Roof-Top Storage Semi-Pervious Paving Infitration Device (See	age Paving ice (Seepage /Rech≀	IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	ind Tank)	

•				FORM F - P	ROPOSED	STORM WATER CONTROL FACILITIES	SHEET OF
WATERSHE Name: Municipality: County:	FERNOALE BORO CANBRIA		BRIAN 814-28	BY <u>M^C ATEER</u> 8-0412 -05		Storm Water Control Facility A natural / man-made device or structutilized to reduce the rate and / or volu from a site or sites.	
For County U	lse:						· · · · · · · · · · · · · · · · · · ·
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments
F-	NOT						
F-	ATTLICAPIT						
F-							,
F-							
F-							
F-							
F-							
F-							
F-							
F-						/all of an identified during a problem	
* Enter the s	torm water problem area's Map ID	TYPICAL T	oposed proj YPES OF S	ect will solve TORM WATE	or reduce ar	ny / all of an identified drainage problem. DL FACILITIES	
Detention / R Natural Pond Parking Lot F						Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage	e / Recharge Basin or Underground Tank)

\bigcirc					FORM G - E	G - EXISTING STORM WATER COLLECTION SYSTEMS SHEET OF INSTRUCTIONS									
WATER	SHED		FORM CO	MPLETED I	BY	T			INSTRUCTIO	NS					
						Diagram ea	ach system	on the appr	opriate map. I	Establish ma	ap points to	show changes in system el	ements,		
Name.			Name [.]	Beian 1	MEATER	pipe size. c	or pipe direc	tion. (If unk	nown, outline	he system	extent.) Con	nplete this form only where system. Identify the points wi	specific		
Municine	ality: KeA	10/1/6 11-00	Telephone	214-28	8-04112	information	on constru	ction is ava	ilable. Use a s	eparate forr	n for each s	ystem. Identify the points wi	ithin a		
County	Crand	DOALL BORD	Date:	3-10	25	system cor	secutively	ex G-1.G-2	2.G-3). Start th	e first point	in each add	litional system 20 numbers	higher.		
County.	CAMB	OK (A)	Date.) - [0	05	For examp	le G-3 end	s one system	m so G-23 bed	nins the nex	t. See Sam	ple Diagrams & Form on Re	everse.		
N/A	ap I.D.	Cyct	L em's Elemen	to (v)	Γ	Measurer		one eyete.	11, 00 0 20 20		Design	3	Name of Final		
IVI	No.	Syst	em s Elemen	13 (1)	Pipe		nannel / Swa	عاد	Material	Year	Data	Contact Person	Ownership and		
F		Pipe	O Ohannal	Swale	D	TW	B	Depth	Widteria	Constr.	Available	Name and Phone	Maintenance Responsibility		
From	То	Pipe	Open Channel	Swale		1 00		Бери		- COHOLI.	7 (Validadio	Traine and Triene			
G-	G-										-				
				_	,										
G-	G-			4) 0	<u> </u>										
_	_														
G-	G-				15										
_				4/	6										
G-	G-			/10											
					To										
G-	G-				10										
					1	CAT	E								
G-	G-														
						10	1) (7	PUTI	01)						
G-	G-					C	7	1077	0 70						
								1 4 1 7							
G-	G-					C 0		101	0						
G-	G-														
G-	G-														
G-	G-														
G-	G-														
G-	G-														
G-	G-											e			
G-	G-		\$												

^{*} See measurement key on reverse side.

$\langle \bullet \rangle$					FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS SHEET OF BY INSTRUCTIONS										
WATERS	SHED		FORM CO	MPLETED	BY				INSTRUCTIO	NS					
						On the map for pro								lements, pipe size, pipe direction and	
Name:			Name:	BRIAN	MEATEER 8-0412	to existing systems	. For proposed add	ditions to existing sy	stems, diagram only th	e additions and thei	r connection	point into the	e existing system	n. Complete a separate form for each	proposed.
Municipa	lity: FERO	PALE BORO	Telephone:	814-28	8-0412	new system and or	ne for each existing	system having one	or more proposed add	litions. Identify the p	oints within	a system con	secutively (ex. H	I-1, H-2, H-3). Start the first point in ea	nch
County:	CAMB	RIA	Date:	1-1-	-05	additional system 2	0 numbers higher	(if H-3 ends one sy	stem, begin the next wit	th H-23). Be sure to	show the p	oint where pr	oposed additions	s connect into existing systems, using	the map
								form and map. Se	e Sample Diagrams an						
	p I.D.	Syste	em's Element	ts (x)		Measurer				Map I.D.		osed	Design	Contact Person	Name of Final
	No.				Pipe		Channel / S		Material	Nos.**		Dates	Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
H-	H-														
H-	H-			N	D /										
	H-			a DI	OLICA	BLE	5								
	H-			A											
	H-														
	H-														
	H-														
	H-														
	H-														
H-	H-														
H-	H-					U									
	H-														
	H-													-	
H-	H-													0	
	H-		ş												

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

	FORM I - PRES	ENT & PROJECTI	ED DEVELOPMENT IN THE FLOOD HAZARD AREA	
WATERS	HED FORM COMPL	ETED BY		DEFINITION
			FLOOD HAZARD AREA:	
Name:	Name:	BRIAN 1 814-288	MEATERS AND	RMALLY DRY LAND AREA THAT HAS BEEN OR IS
Municipali	ity: FERNONE BORO Telephone:	814-288	5-0472 SUSC	CEPTABLE TO BEING INUNDATED BY THE
County:	CAMBRIA Date:	3-1-	- 05 100-Y	EAR FLOOD.
For Count	ty Use:			
Map ID	TYPE OF DEVELOPMENT	Year	Contact Person	Comments
No.	THE OF BEVEEN MEIN	Built	Name, Address and Phone	
110.				
1 -	400			
	1001			
1-	Δ	PPII	ABLE	
	71	0121	71000	
I-				
1-				
1-				
1-				
1-				
1-				
1-				
1-				

\sim	FORM	J - WAT	TER QUA	ALITY PI	ROBLE	M ARE	EAS :	SHEE"	г	OF	= 1	
WATERSHED		-			МСО							
Name: Municipality: FERNOALE County: CAMBI	BOR	26		Name Telep Date:	: hone:		814 2	28	Mi 8-	6 A 7	EEA 2	
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems									T	T		
High Community Tolerence		1							1			
High Temperature							1		1			
High Turbidity		1					1		1			
Hydrocarbon Pollution				1 3	15		1		1			
Low Community Diversity				101	1							
Low Dissolved Oxygen		1	/							1		
Low pH			l				1		1			
Nutrient Enrichment						1			1			
Poor Habitat							1		1	1		
Other/Explanation Line No.						-	-	\vdash	-	├──	+	
Potential Cause(s) Agriculture	-	 	 		<u> </u>	 	+	\vdash	+	+		
Construction Site					15					1		
Erosion			1	20.	NE		1			1		
Lake Discharge			/				1	İ				
STP Outfall												
Other/Explanation Line No.												
Frequency												
Year Most Recent Occurence							T		I	Ī		
Year First Known Occurence										<u></u>		
Source of Information												
BWA Streamwatch												
County Water Quality Study	1			1	.) 2	r						
Driveby			1	00								
UCCD Complaint Investigation								1				
			l					l				
Other/Explanation Line No.	EVDI	ΔΝΑΤΙ	ON LIN	IES						<u></u>		
1	LAFL	714/-/11	ON LII	ALO.								
2												
3												
4	10	1					1,					
5			A P	PL	101	4/	1/					
6		. /	11	-								
7												
8												
9												
10												



August 12, 2005

Project No. 00-2266.31

Mr. Robb Piper Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931



AUG 15 2005



TRANSMITTAL STONYCREEK RIVER STORMWATER PLAN DALE BOROUGH, CAMBRIA COUNTY

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from Dale Borough, Cambria County.

Sincerely yours,

Paul C. Rizzo Associates, Inc.

Mark W. Lazzari

Watershed/Land Use Planner

MWL/RJF/ljr Enclosure

pc:

Dale Borough Supervisors

L001-2266.31/00

	FORM	FORM COMPLETED BY Before Filling Out Form,										
WATERSHED		FO	RM C	OMPLE	ETED	BY						
Name: Municipality: County: Name: Dale Bo	on ro	Nam Tele	ie: phone:	Mark 814-	(W.L	<u>azzari</u> 767	See	Instru			Back	
County: Cambria		Date);			707	1. 0.	Ooun	ty Ost	J.		
MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	IA-	A-	IA-	A-
Types of Storm Water Problems									1			+
Flooding	`								1	1	_	1
Accelerated Erosion									1	1	_	+
Sedimentation									1-	\top	+	+-
Landslide								1	1	_	1	+
Groundwater				1	A			\top	1	+	+-	+
Water Pollution		7	I		111				1	+	+-	+-
Other (Explain)		1			H	1		+	+	+	+	+
Explanation Line No. (On Back)	1		1	11			+	+	+	+	+	
Cause (s)			11	M	1		 	 	-	+	+	
Storm Water Volume	1		11	H	\		+	 	+	-	+-	
Storm Water Velocity	1		1	+	-		-	-	-	+		
Storm Water Direction	1	1	1 1	-	-		+	-	-		-	
Water Obstruction	1	 	 	-	+		-	-		┼	-	
Other (Explain)	 	 	 	-	-	+		-			-	-
Explanation Line No. (On Back)	1	+	 	 	-	-		├			-	
Frequency	 	1		 	 	+		-			-	ļ
Year Most Recent Occurred	 	_	 			-		├			-	
Year First Known Occurred	 	 		 		+		-				
Regularity	 	 	 	-		++		-				
More Than 1 Year	 	 	-									
ess Than 1 Year	 	 				\vdash						
Only During Agnes	 					\vdash						
Ouration (If Applicable)		-										
ess Than 1 Day												
Day + (Enter Days)						-						
Property Damage												
oss of Life/Vital Services												
Private												
fore Than One Owner						\vdash						
ypes of Properties						\vdash						
lumber of Properties												
ublic (List Types)						\vdash						
xplanation Line No. (On Back)												
olutions												
uggested												
xplanation Line No. (On Back)											-	
ormally Proposed												
xplanation Line No. (On Back)	her form listing proposed facilities.											

			ORM W				_)	i.	01		
WATERSHED		FC	ORM CO	OMPLE	TED	BY	Befo	ore Fi	lling C	Out Fo	rm,	
Name: Stony Creel Municipality: Dale Boro County	KRiver	Nan	ne:	Mar	kW.	Lazzari					Back	
Municipality: Dale Boro		Tele	phone:	814-	536-	6767	For	Coun	tv Use			
County: Cambria		Date	e:						,			
MAP NO. *	A-	A-	A-	IA-	 A-	TA-	A-	Α-	ĪA-	A-	IA-	A-
Types of Storm Water Problems				1	1	1			 	1	Ť	1/,
Flooding						1		1	1			
Accelerated Erosion						<u> </u>			-	 		+
Sedimentation								1	 	1	+	
Landslide				1	1	—			 	 		
Groundwater								1	 	1	 	╅
Water Pollution						1		†	 	+		
Other (Explain)					1	-		 	 	+	 	┼─
Explanation Line No. (On Back)						+	ļ	 	 	 	┪	+
Cause (s)					A	A		+	 	 		
Storm Water Volume						/\		 	 -	 	+	+
Storm Water Velocity	1				+		 	├	 	 	┼	
Storm Water Direction	m Water Velocity m Water Direction							 	 	 	 	
Water Obstruction	<u> </u>	1	1		1		_	 	 	 	┼	
Other (Explain)	 	1	1	t	1 -		 	 	 	 	╂	
xplanation Line No. (On Back)						-		 	 		 	
requency		 	 			1		 		ļ	┼	
ear Most Recent Occurred			 			†		 			 	├
ear First Known Occurred					· · · · · · · · · · · · · · · · · · ·	1 1					 	
Regularity						1					 	
fore Than 1 Year			†							-	 	
ess Than 1 Year	1		1			 					 	ļ
Only During Agnes						 				<u> </u>	 	ļ
uration (If Applicable)						 					ļ	ļ
ess Than 1 Day						 -						
Day + (Enter Days)						 -						·
roperty Damage			t			-						
oss of Life/Vital Services			 			 						
rivate						 						
ore Than One Owner												
pes of Properties						 -						
umber of Properties						-	 					
ublic (List Types)												·
rplanation Line No. (On Back)			-									
olutions												
uggested												
planation Line No. (On Back)												
ormally Proposed												
planation Line No. (On Back)						- 1		1				

\triangle				FORM C - EXIS	TING FLOOD	CONTROL PRO	DJECT	SHEET	1	OF	
WATERSHE	D	FORM CO	MPLETED I	BY			TYPICAL TYPES OF FLO	OOD CONTROL PROJECTS	3		
Name: Municipality: County:	Solomon Run Dale Boro Cambria	Name: Telephone: Date:	Mark W. 814-53 8 10	, Latzari 6-6767 05		Channel Excar Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete		
For County U	lse:	L									
Map ID No.	Type of Flood Control Project (See Atlached)		Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.	1	wner Name, Address, and Pr Redevelopment Auth		814-5	35-6564
c-1	25-ft Reclangula Concrete	ar Channel 2	1997-88				4th Floor, Pu Johnstow,	Redevelopment Auth oblic Safety Build PA 15901	ding	Frank L) offerre
C-											
C-											
C-											
C-											
C-											
C-								*			

				FORM D - P	ROPOSED	FLOOD CO	ONTROL PI	ROJECT		SHEET	OF	1		
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL 7	TYPES OF I	FLOOD CO	NTROL PR	OJECTS		*	
Name: Municipality: County:	Solomon Run Dale Boro Cambria	Name: Telephone: Date:	Mark W. 84-536-	Lazzeri -6767]		xcavation / tealignment			Levee Gabions Pipe Chan	F	Dams Floodwall Concrete Lining		
For County U	lse:	Lancara Control Contro											•	
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Be S Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.		Map ID No. Form A*	Owner N	lame, Address, a	and Phone	
D-														
D-												MAX - 1/2 -		
D-						N								
D-							1							
D-														
D-														
D-														

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond		FORM E EXISTING STORM WATER CONTROL FACILITIES	ONTROL FACILITIES	SHEET OF
WATERSHED	FORM COMPLETED BY	PLETED BY		
Name: SOLOMON Kun Municipality: Dale Boro	Name: Telephone:	Mark W. Lazzari 814-536-6767	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff	ssigned and / or ar runoff
County: Cambria	Date:		from a site or sites.	object to the second
For County Use:				
Map ID No. Type of Storm Water Control Facility	Control Facility Year Built	Contact Person	Address and Phone	Comments
ψĺ				
급-				
±				
Ė				
<u>-</u> 13				
Ę-				
- L				
Ē				
Ē.				
Ē				
Ü		7		
ii				
Ē.				
<u>-1</u>				
-1				
نُ				
Ü				
ů				
Ü				
,				
ù				
ij	-			
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	CONTROL FACILITIES Roof-Top Storage Semi-Pervious Parinitation Device	IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	ınd Tank)	

•				FORM F - P	SHEET OF									
WATERSHE Name: Municipality: County:	Solomon Run		Markh 814-536	BY 1.Lazzari 6-6767	Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.									
For County U	Jse:													
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments							
F-			:											
F-						٨								
F-				1		4								
F-														
F-					V									
F-														
F-														
F-			:											
F-														
F-														
* Enter the s	I storm water problem area's Maj	o ID No., if the pr TYPICAL T	oposed proj YPES OF S	ect will solve TORM WATE	solve or reduce any / all of an identified drainage problem. WATER CONTROL FACILITIES									
Detention / R Natural Pond Parking Lot F					WATER CONTROL FACILITIES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage / Recharge Basin or Underground Tank)									

					····										
\bigcirc					FORM G - E	INSTRUCTIONS Diagram each system on the appropriate map. Establish map points to show changes in system elements,									
MATER	SCHED		FORM CO	MDI ETED	RV	T			INSTRUCTIO	NS					
WATER	KOHED		FURIVI COI	VIPEE IED	Di	Di		on the appr	consiste man	Ectablich m	an nainte ta	chow changes in	evetem ele	ments	
	<u> </u>	\wedge		Λ		Diagram e	acn system	on the appr	opnate map.	_5(a)) 5 1	ah hours ro	Show changes in	System of		
Name:	<u>Solomo</u> ality: Dale	n Kon	Name:	Markl	N. Lazzari	pipe size, o	or pipe dired	ction. (If unk	nown, outline	the system	extent.) Con	nplete this form or	nly where s	респс	
Municin	ality Dole	Rosa	Telephone:	814-536	5-6767	linformation	n on constru	iction is ava	ilable. Use a s	eparate for	m for each s	ystem. Identity the	e points wi	mn a	
Countr	Cambi		Date:	<u> </u>		system cor	nsecutively	(ex. G-1.G-2	2.G-3). Start th	e first point	in each add	litional system 20	numbers h	igher.	
County.	<u>cam bi</u>	^14	Date.			Ear avama	io C 3 and	e one eveter	m so G-23 he	ains the nev	d See Sami	ole Diagrams & Fo	orm on Re	verse.	
			<u> </u>			Troi examp	ie, G-5 enu	S One System	11, 30 0-20 00	T	Design	olo blagianio a i v	01111 011 110	Name of Final	
M	ap I.D.	j Syst	em's Elemen	ts (x)		Measure	ments *					0 4 4 10			
	No.				Pipe		nannel / Sw		Material	Year	Data	Contact Persor		Ownership and	
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phor	ne	Maintenance Responsibility	
G-	G		ļ			 				<u> </u>	 			· · · · · · · · · · · · · · · · · · ·	***************************************
	1]										
G-	G-					<u> </u>				ļ	ļ				
G-	G-														
	- 					 					1				
_								Λ							
G-	G-					·	 	-/\		ļ	 				
			1												
G-	G-	1					#								
G-	G-														
<u> </u>	10-				<u> </u>	 					1				
_	_						()								
G-	G-						<u> </u>								
		1				[V	['			1 1				
G-	G-		i					ļ.	l						.,
G-	G-							}							
<u> </u>	<u> </u>					 	····				 	******			****
						1		<u> </u>	İ						
G-	G-														
									İ						
G-	G-]			į										
	 					 	<u> </u>	<u> </u>							
_					İ		ļ								
G-	G-					<u> </u>			ļ	ļ					
	1					1	1	[İ						
G-	G-						L			<u> </u>	<u> </u>				
***************************************	1														
G-	G-											r			
<u></u>	15	 				 	 	 		 	1				-
_	1_		,				1				[
G-	IG-	l .	, ,		1	i	1	1	ı	I	1 1				

^{*} See measurement key on reverse side.

$\langle \bullet \rangle$					FORM H - P	ROPOSED STORM WATER COLLECTION SYSTEMS SHEETOF												
WATER	/ATERSHED FORM COMPLETED BY			BY	INSTRUCTIONS													
				On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections														
Name:	MSlom ality: Dale	on Kun	Name:	ame: Mark W. Lazzari elephone: <u>814-536-6767</u>			to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed,											
Municipa	ality: Dale	Boro	Telephone:	814-536-	-6767	new system and one for each existing system having one or more proposed additions. Edentify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each												
County:	Cambr	<u>ria</u>	Date:			additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map												
		r			1	<u> </u>	int number from the existing system form and map. See Sample Diagrams and Form on Reverse. Measurements * Map I.D. Proposed Design Contact Person Name of Final											
Ma	ap I.D.	Syst	tem's Elements (x)					0		Map I.D.	Proposed		Design	Contact Person	1			
	No.				Pipe	Open Channel /			Material	Nos.**	Const. Dates		Data	Name and	Ownership and			
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start End		Avail.	Phone	Maintenance Responsibility			
H-	H-						****											
H-	H-																	
H-	Τ-							-										
H-	H-							A										
 Н-	H-	***************************************		****			A		۸									
H-	H-																	
				····					Λ									
H	H-							+	 									
H	H-			···				V	1									
H-	H-			·														
H-	H-																	
H-	H-																	
H	H-																	
	H-																	
H	1:7"																	
H	H									<u> </u>			,					
H-	H-		3															

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

	FORM I - PRESENT	& PROJECTED DEVE	LOPMENT IN THE FLOOD HAZARD AREA	SHEET OF						
Name: <u>Volomon Run</u> Municipal <u>ity: Dale Boro</u> County: <u>Cambria</u>	FORM COMPLETE Name: Telephone: Date:	DBY Mark W. Lazzar 814-536-6767	DEFINITION FLOOD HAZARD AREA: A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS SUSCEPTABLE TO BEING INUNDATED BY THE 100-YEAR FLOOD.							
For County Use: Map ID TYPE OF DEVEL No.	OPMENT	Year Built	Contact Person Name, Address and Phone	Comments						
1-										
1 -										
1 -										
	and the second s									
-										
1 -										

\searrow	FORM	J~WA	TER QU	ALITY P	ROBLEI	M ARE	EAS :	SHEET	r\	OF	-	
WATERSHED				FOR	M CO	MPL	ETED	BY				
Name: Solomon k Municipality: Dale Boro County: Cambria	Name: Mark W. Lazzari Telephone: 814-536-6767 Date:											
SITE	J-	J-	J_	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems		1		· · · · · · · · · · · · · · · · · · ·			<u> </u>		<u> </u>	<u> </u>	<u> </u>	
High Community Tolerence High Temperature High Turbidity Hydrocarbon Pollution Low Community Diversity Low Dissolved Oxygen Low pH Nutrient Enrichment Poor Habitat Other/Explanation Line No. Potential Cause(s) Agriculture Construction Site Erosion Lake Discharge STP Outfall Other/Explanation Line No. Frequency Year Most Recent Occurence												
Year First Known Occurence									İ			
Source of Information BWA Streamwatch County Water Quality Study Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.	FXPI	ANATI	I ION LII	I VFS	L	<u> </u>		I	<u> </u>	L	J	<u> </u>
1 2		AINAI	ION EII	YEU								
3						·····	······································	·····				
4						·						
5		···		~								
6												
7				-								
8		************		·····	······································	·····	·	······································				
9			 									
10		• •••	~~~~						·····			



JUN 2370

CAR

Memorandum

To:

WPAC Committee Member

From:

Robb Piper, Cambria County Conservation District

Date:

May 28, 2003

Subject:

Stonycreek River Stormwater Problem Areas

Dear WPAC Committee Member;

As part of the Phase I, Scope of Study, for the Stonycreek River Watershed ACT 167 Stormwater Management Plan, each municipality is asked to supply information related to stormwater problems within their municipality for the study watersheds. This information will be utilized in the Scope of Study to assist in describing stormwater problems within the watershed. Attached you will find Form A, Stormwater Problem Areas, a map of the portion of your municipality which lies within the study watershed area, and instruction on how to fill out this form. Please use this material to locate and describe the problem areas within your municipality which relate to these watersheds and return these forms to the Cambria County Conservation District, 401 Candlelight Drive, Suite 221, Ebensburg, PA 15931 NO LATER THAN JUNE 18, 2003. Should you have any questions on how to fill out this form, please feel free to contact Terry Ostrowski of Borton-Lawson Engineering at (570)821-1994, ext. 241. Your assistance is greatly appreciated.

Sincerely;

Robb Piper, Director Cambria County Conservation District

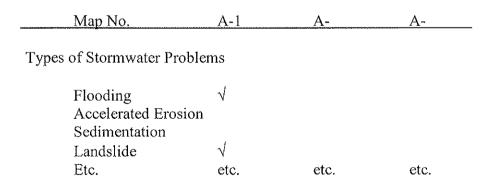
HOW TO FILL OUT FORM

GENERAL

The form in this packet is intended to document existing stormwater related issues within the municipality. A map has been provided along with the data collection form that is to be used to locate the features described in the forms. Each feature on the map should be identified with a symbol (shown in upper left corner of form) and an identification number (i.e. A-1, A-2, etc) which matches the number of the area being described on the form.

FORM A, STORMWATER PROBLEM AREAS

- The intent of this form is to identify any problem areas (areas that flood frequently such as stream banks, roads, any landslides or turbidy problems), for that part of you municipality that is in the Stonycreek River Watershed. For some of you that may just be several streets, for others that may be the entire municipality.
- For the (Map No., A-, A-) line you will identify your problem sites by numbering them, starting with #1, so if you have 3 problem sites you should put 1, 2 and 3 like this: A-1, A-2, A-3.
- Once you number the problem area, check ($\sqrt{\ }$) the information in that column that applies to the problem area so that:



The above example indicates that problem area A-1 has flooding and landslide problems.

Locate the problem areas on the attached map by putting a dot with A-1 next to it. Continue for all sites you identified. If there are no problem areas in your municipality put not applicable and go to the next form.

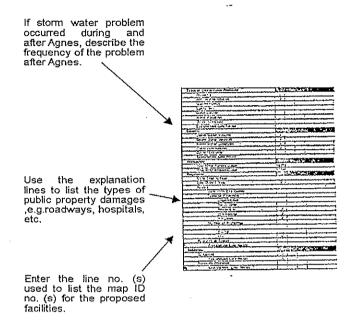
	FORM	A - STO	RM WA	TER PR	ROBLEM	AREA	s				SHI	EET_	1	0	=		
WATERSHED			FORM COMPLETED BY Name: State Colored State Before Filling Out For See Instructions On See Instruction On See Instruction O														
Name:		Name	5 '	Boll	1 9	ΞD c/l	See	ınstru	cuons	on E	back						
Municipality: (ONEMAUGH	T5	Teler	hone:	वाया. त	30-6	707	For (Count	موا ا ب	•							
Municipality: CONEMAUGH County: CAMBRIA	IMP	Date.	., ., ., ., ., .,	10-16	1-63	1 37	1' ''	Journe	, 000	•							
County. AMORTA		Date.		10-1	1-00												
MAP NO. *	A-	A-	A-	A-	Α-	A-	A-	A-	A-	A-	IA-	A-	ĪA-	A-	Α-	A-	
Types of Storm Water Problems	·						1	1		1							
Flooding	/						<u> </u>	<u> </u>									
Accelerated Erosion																	
Sedimentation																	
Landslide							<u> </u>										
Groundwater													<u> </u>				
Water Pollution			<u> </u>					<u> </u>		<u> </u>	ļ	<u> </u>	<u> </u>				
Other (Explain)	<u> </u>					<u> </u>		<u> </u>	ļ	<u> </u>		ļ				ļ	
Explanation Line No.	<u> </u>		ļ	ļ	<u> </u>	<u> </u>	<u> </u>		 	<u> </u>	ļ	<u> </u>	 	<u> </u>	ļ	<u> </u>	
Cause (s)		ļ	ļ	 	ļ	 	<u> </u>	 	ļ	 	<u> </u>	-	 	<u> </u>			
Storm Water Volume		ļ	ļ	 		ļ	 	 	<u> </u>		ļ	↓	 	<u> </u>			
Storm Water Velocity	<u> </u>	ļ		-	 	ļ		ļ	ļ	ļ	<u> </u>	<u> </u>	ļ	<u> </u>			
Storm Water Direction		 	 	-	 	ļ	 	 	 	 	₩-	┼	ļ		<u></u>		
Water Obstruction		-	-	 		ļ	ļ	├ ──	-	-	┼		 		 		
Other (Explain)	╂	-		-		<u> </u>	ļ	 	-	-	-	 	 	 	ļ		
Explanation Line No.	+			-				-	-	├	 	 					
Frequency Year Most Recent Occurred	+	-		 	-		 		 	┼──	┪	1			 		
Year First Known Occurred		-	 		+		-	-	 		 	 	1				
Regularity			-		+	\vdash		 		 	 	 					
More Than 1 Year		 	 	 	1	\vdash		 	·	 	 	 	 	 	 		
Less Than 1 Year	-	 	 	+	+		 	 	- 	 	 	+	<u> </u>				
Only During Agnes	1				1		 	 		 	 	1	1				
Duration (If Applicable)				†	1	 	1	1		1	1						
Less Than 1 Day		<u> </u>					<u> </u>	1		 			1				
1 Day + (Enter Days)				1	1	ļ	-	1									
Property Damage																	
Loss of Life/Vital Services																	
Private										<u> </u>					<u> </u>		
More Than One Owner												ļ			<u> </u>	<u> </u>	
Types of Properties						<u> </u>	<u> </u>			ļ	ļ					ļ	
Number of Properties		ļ					<u> </u>				 	 	1	<u> </u>	<u> </u>	<u> </u>	
Public (List Types)			<u> </u>	<u> </u>		 		1	 	_	ļ	.			<u> </u>	<u> </u>	
Explanation Line No.		 	-	 	<u> </u>	<u> </u>	-	 	-	-	 	 	<u> </u>	<u> </u>		<u> </u>	
Solutions	 	 	 	+	 	 	 	-	 		+	 	 	 			
Suggested		+	 	 	 	 		 	-	-	+-	-	 	 	 		
Explanation Line No.				-	-	 	 	 	 	 	+	-	-	 	 	 	
Formally Proposed Explanation Line No.		 	 	+	-	 	 	\vdash	+		+-	+	1	 		 	
* Include Map ID No. if found o	n anu o	ther fo	rm liet	ing pro	Jnosed Inceed	L facilit	عما	.1		<u>.I</u>	Ь	1	<u>.</u>	L	1	<u></u>	
EXPLAINATION LINE(S)	ii aiiy C	MIOI IC	<u>. 1130</u>	iii ya pi c	, p		::XX	•									
1)																	
2)					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	······											
3)																	
4) E)	, , , , , , , , , , , , , , , , , , , 												·····				
0)																	
7)	······································	······	, <u></u>													······································	
1) 2) 3) 4) 5) 6) 7) 8)												·					

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

	EXPLANATION LINES (continued)

,	



August 18, 2005

Cambria County Conservation District 401 Candlelight Drive, Suite 221 Ebensburg, PA 15931

ATTN: Robb Piper

STONYCREEK ACT 167 PLAN STORMWATER MANAGEMENT

Dear Robb,

On behalf of the Conemaugh Township Supervisors of Cambria County, we have completed the forms for the Stormwater Management Plan received at the Phase II Meeting on June 22, 2005. The completed forms are enclosed with this memo as well as a map of the portion of Conemaugh Township contributing to the Stonycreek Watershed.

If you have any questions or concerns, please contact us at (814) 445-6551.

THE EADS GROUP, INC. (Somerset)

By: Jeffrey S. Haynal, E.I.T.

cc: File # 2001-G-01 Central File John Peschock, Steve Sewalk

Somserv/Jeff H/CTS-Cam/Act 167 Cover Letter

RECEIVED

AUG 1 9 2005

CONSERVATION DISTRICT

	FORM	A - STC	ORM WA	ATER PI	ROBLE	M ARE	AS S	HEET_	/	OF	/0	ı
WATERSHED				OMPLE	,			re Fill	_			***************************************
Name: STOHYCREK		Nam	e:	<u>JEFF</u> 814-9	HAY	MAL				,		
Name: STONYCREK Municipality: ConserauGH	TWF	Teler	ohone:	814-	145-63	5/	For (Count	y Use	3;	***************************************	
County: CAMBRIA		Date		8/1	7/200	5			-			
MAP NO. *	A- /	A-	А-	A-	A-	A-	A-	A-	A-	A-	A-	Α-
Types of Storm Water Problems												
Flooding												
Accelerated Erosion	V											
Sedimentation						T			T	1		T
Landslide												
Groundwater						1						
Water Pollution			Ī						T	·	T	1
Other (Explain)								1				1
Explanation Line No. (On Back)								1	1	†	-	1
Cause (s)			1						1			
Storm Water Volume	1/		1	<u> </u>		· · · · · · · · · · · · · · · · · · ·		—	 	†	1	†
Storm Water Velocity			 	1	 	1	1		<u> </u>	 		
Storm Water Direction			<u> </u>	 		 	 	1-		 	+	
Water Obstruction		 -	†	 	 	·	 	 	 	 		
Other (Explain)		 	 		 	+	 	 	<u> </u>			╂
Explanation Line No. (On Back)		ļ	 	1	<u> </u>	 	 	 	 		╅	
Frequency						 	 	╁	-			
Year Most Recent Occurred	2004			 		 	 	 	<u> </u>	ļ	╁──	
Year First Known Occurred	200/		<u> </u>			 	ļ	 		-		-
Regularity	7 2 0 3 .		<u> </u>	<u> </u>	 	 	 	 		 	 	
More Than 1 Year				 		 	 	 				ļ
Less Than 1 Year		Le	C(WAN		CE	165 /C	400	67		 -	-
	· ·	CC	3/ /	14719	0/~	32.74	7°C5" 7°C	700	F Gara.		 	ļI
Only During Agnes				<u> </u>			<u> </u>				ļ	
<u>Duration (If Applicable)</u>				ļ		ļ						
Less Than 1 Day							ļ				 	
1 Day + (Enter Days)				 -		ļ	ļ				ļ	
Property Damage											ļ	
Loss of Life/Vital Services								ļ				
Private	_						ļ				ļ	<u> </u>
More Than One Owner				ļ		ļ	ļ	 _		··········	ļ	
Types of Properties												
Number of Properties				L			L				<u></u>	
Public (List Types)			***************************************							·		
Explanation Line No. (On Back)												
Solutions							<u> </u>	[]			
Suggested												
Explanation Line No. (On Back)	/											
Formally Proposed												
Explanation Line No. (On Back)				ĺ								
* Include Map ID No. if found o	on any of	ner for	m listir	a pror	nsed	faciliti	PS		<u>.</u>		···	

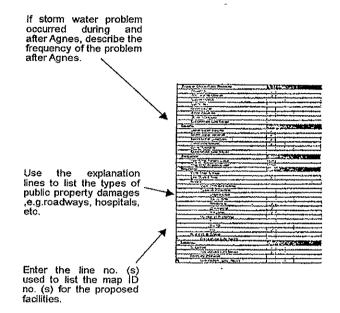
.

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on

Water Obstruction
Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

temperature temperature and	EXPLANATION LINES (continued)
1,	EROSIAN PROBLEMS HAVE OCCUPED ALONG SINDER HILL ROAD NEAR THE
	INTELSECTION WITH FOOLINCKY ST. THE OWNER OF THIS LOT HAS RAGED
	CONCRETE ALONG THE ROAD FORMING, A CHANNEL, ALSO THE STATE HAS
	PLACED LABOR STOCKS IN THE CHANGE. THIS HAS PROPERTED THE
	ERGION OF THE CHANNET
	WE ARE UNAWARD AS PROPREDES OFFICERS IN THE PROPRIEM AND A
2.	TO THE THE THE PROPERTY OF THE
	DEMIFIED IN THE PROVIDED DRAWING FROM THASE IS.

\triangle				FORM C - EXIS	TING FLOOD	CONTROL PRO	DJECT	SHEET	3_of_/O_
WATERSHE	D	l	MPLETED I				TYPICAL TYPES OF	F FLOOD CONTROL PROJECTS	
Name: Municipality: County:	STONY CREEK CONEMANGH TUP CAMBRIA	Name: _ Telephone: Date:	814-445 8/17/200	-6551		Channel Excar Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County U	Jse:	<u></u>							
Map ID No.	Type of Flood Control Projec	ct	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and Ph	one
C-	NOT APPLICABLE								
C-									
C-									
C-									
C-									
C-									
C-	3								

				FORM D - P	ROPOSED	FLOOD CO	ONTROL PI	ROJECT			SHEET 4 OF 10
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF I	FLOOD CO	NTROL PR	OJECTS
Name: Municipality: County:	STONYCREEK CONEMAUGH TWP CAMBRIA	Name: Telephone: Date:	Jett H 814-445 8/17/2	-6551			xcavation / ealignment			Levee Gabions Pipe Chan	Dams Floodwall nel Concrete Lining
For County U	lse:										
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Bo Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Name, Address, and Phone
D-	NOT APPLICABLE										
D-	7,70,70,70										
D-											
D-								-			
D-									***************************************		
D-											
D-											

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\Diamond		FORM E - EXISTING STORM WATER CONTROL FACILITIES	CONTROL FACILITIES	SHEET 5 OF 10
WATERSHED	FORM COMPLETED BY	LETED BY		
Name: <u>うたいりCRESK</u> Municipality: <u>Content A TCAP</u> County: <u>A 1801 A</u>	Name: Telephone:	STF /AMML 314-445-6551	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff	esigned and / or er runoff
	, da	50,27,70	Solid of Sires.	
Use:				
Map ID No. Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
TO APPLICABLE				
ம்				
-교				
E-				
ш́				
-i				
<u>.</u>				
Ü				
#				
· i				
ú				
E-				
Ε.				
——————————————————————————————————————				
<u>ت</u> ـــ				
<u>-</u>				
ù				
<u>ٺ</u>				
ù				
Ē.				
ù				
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	.ITIES Roof-Top Stor Semi-Pervious Infiltration Dev	IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	und Tank)	

•				FORM F - P	ROPOSED S	STORM WATER CONTROL FACILITIES	SHEET 6 OF 6
WATERSHE		j	MPLETED	/		Storm Water Control Facility A natural / man-made device or structure	re appointed by decigned and for
Name: Municipality: County:	STONY CREEK CONEMAUGH TWP CAMBRIA	Name: Telephone: Date:	814-445			utilized to reduce the rate and / or volur from a site or sites.	
For County U	Jse:						
Map ID No.	Type of Storm Water Control Facility		Proposed C Start	onstr. Dates End	Map No. Form A*	Contact Person Name, Address and Phone	Comments
F-	NOT APPLICABLE						
F-							
F-							
F-							
F-							
F-							
F-		· · · · · · · · · · · · · · · · · · ·					
F-							
F-							
F-				***************************************			·
F-							
* Enter the s	torm water problem area's Map	ID No., if the pi	oposed proj YPES OF S	ect will solve TORM WATE	or reduce ar	y / all of an identified drainage problem. L FACILITIES	
Detention / R Natural Pond Parking Lot F						Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage	/ Recharge Basin or Underground Tank)

\bigcirc					FORM G - E	XISTING S	TORM WAT	TER COLLE	CTION SYST	EMS		SHEET 7 OF		
WATER	SHED		FORM COI	MPLETED	BY				INSTRUCTIO	NS				
7 1 / 1 T tool 1				,		Diagram ea	ach system				ap points to	show changes in system	elements,	
Namo	STONYC	0551	Name:	Low Llas	WAL.	nine size	or nine direc	tion (If unk	nown outline	the system	extent.) Con	nplete this form only when	e specific	
		KEEK	Name: Telephone:	914 HUC	71115	information	on constru	ction is ava	ilable I Ise a s	enarate for	n for each s	ystem. Identify the points	within a	
Municipa	anty: $\bigcirc \wedge \in$	MAUGH TWP	reteptione.	0/7 773	- O> 5 /	a sotom cor	on constitu	onomis ava	1 G 3 \ Start th	e firet noint	in each add	litional system 20 number	s higher	
County:	CAMBE	CIA.	Date:	8/17/20	0.5	System cor	isecutively ((ex. G-1,G-2	2,G-3/, Start III	e mar pom	# Cac Cam	ple Diagrams & Form on	Poverse	
								s one syster	11, SO G-23 DE	giis the ne.		pie Diagrams & Form on	Name of Final	
	ap I.D.	Syst	em's Elemen	ts (x)		Measurer		····			Design	Ossits at Damas	i e	
	No.				Pipe		nannel / Swa		Material	Year	Data	Contact Person	Ownership and	
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility	
G-	G-	NOT A	PPUCAB4	E										
G-	G-										***************************************			
<u> </u>	0-									 				
<u></u>	G-									1			**************************************	
<u>G-</u>	<u> </u>													
G-	G-							-						
G-	G-													

G-	G-		<u> </u>											
														i
G-	G-													
G-	G-					THE PROPERTY OF THE PROPERTY O								
<u> </u>	<u> </u>													
G-	G-				-									
<u> </u>														
G-	G-													
	<u> </u>										İ			
G-	G-													
<u> </u>	 ` 									l				
G-	G-													
٠.	<u> </u>				L	<u> </u>			<u> </u>		 			
_														
<u>G-</u>	G-								······································		 			
G-	G-											4		
														-
G-	G-		į			I		:			I I		1	1

^{*} See measurement key on reverse side.

•					FORM H - P	ROPOSED	STORM W	ATER COL	LECTION SYS	STEMS			SHEET _	8 of /0	
WATER	SHED		FORM CO	MPLETED	BY				INSTRUCTIO	NS					
				. //	/	On the map for pro	oposed storm water	collection systems	, diagram each proposi	ed system. Indicate	a map point	to show char	nges in system e	lements, pipe size, pipe direction an	diconnections
Name:	STONIYCRE	sek -	Name:	JEFF HI	AYNAL.	lo existing system	s. For proposed ad	dilions to existing s	ystems, diagram only th	ne additions and the	ir connection	n point into th	e existing system	n. Complete a separate form for each	proposed,
Municipa	lity: Conema	uGH TOP	Telephone:	814-445	-6551	new system and o	ne for each existing	system having on	e or more proposed add	ditions. Identify the p	oonts within	a system con	secutively (ex. H	I-1, H-2, H-3). Start the first point in	each
County:	CAMBRI	Α	Date:	8/17/20	>05"	additional system	20 numbers higher	(if H-3 ends one sy	stem, begin the next wi	ith H-23). Be sure to	o show the p	point where pr	oposed additions	s connect into existing systems, usin	g the map
-]			point number from	the existing system	n form and map. Se	e Sample Diagrams an	nd Form on Reverse					
Ma	p I.D.	Syst	em's Elemen	ts (x)		Measure				Map I.D.	1 .	osed	Design	Contact Person	Name of Final
	No.				Pipe	Open	Channel /	Swale	Material	Nos.**		. Dates	Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility
H-	H-	NOT	APPU	CABLE											
H-	H-														
H-	H-														
H-	H-														
H-	H-														
1 IT	1 12									·					
H	H									<u> </u>					
Н-	H-														
H-	Н-														
H-	H-														
H-	H-	, ,													
H-	H-														
	H-														
	H-														
f F"	11	·····								1	1				
H-	H-										ļ			:	
H	H-		}												

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

		FORM I - PRESENT	& PROJECTED D	EVELOPMENT IN TH	E FLOOD HAZARD AREA		SHEET 7	OF/O	
WATERS	HED	FORM COMPLETE	D BY			DEFINITION			
WAILNO	111111	10/11/100/11/12/12		FLC	OOD HAZARD AREA:				
Name: Municipal County:	STONYCREEK ity: CONEMAUGH TWP CAMBRIA	Name: Telephone: Date:	8/17/2005		SUSCEP	IALLY DRY LAND AREA THA PTABLE TO BEING INUNDAT AR FLOOD.		S	
For Count	ty Use:								
Map ID No.	TYPE OF DEVELO	OPMENT	Year Built	Contact Name, Address			Comments		
1-	NOT APPLICAB	LE						water and the second se	
l -									
1 -									
l -									
-				1000					
+ -	100000000000000000000000000000000000000								
l									
*		1.1111							
l -									

Δ	FORM	/ J - WA	TER QL	JALITY F	PROBLE	M ARE	EAS	SHEE.	r/	<u>0</u> o	F	<u> </u>
WATERSHED			***************************************	FO	RM CC	OMPL	ETED	BY				
Name: STONYCRE Municipality: CowemanG County: CAMBRIA		P <u>.</u>		Nam Teler Date:	ohone:		34 F 314- 9			<u>/</u>		
SITE	J-	J-	J-		IJ-	<u> </u>	- IJ-	J-	J-	J-	J-	J-
Types of Water Quality Problems		<u> </u>	 	╫	ľ	1	 	 	10	╫┈	 	
High Community Tolerence										1		
High Temperature				i		1						
High Turbidity	ļ						ŀ		1			
Hydrocarbon Pollution												
Low Community Diversity										1		
Low Dissolved Oxygen			1	1								
Low pH								İ				
Nutrient Enrichment		·	1									
Poor Habitat			ŀ							1		
Other/Explanation Line No.						<u></u>						
Potential Cause(s)												
Agriculture												
Construction Site		1										
Erosion				1								
Lake Discharge		İ				1						
STP Outfall]							
Other/Explanation Line No.						<u> </u>	<u> </u>	<u> </u>				
Frequency												
Year Most Recent Occurence		Ī										
Year First Known Occurence					<u> </u>	<u> </u>			<u> </u>		<u> </u>	
Source of Information					<u> </u>	<u> </u>						
BWA Streamwatch					İ	1						
County Water Quality Study	İ	ı		1								
Driveby				1						-		
UCCD Complaint Investigation								İ				
Other/Explanation Line No.										Ì		
	EXPL	ANAT	ION LI	NES								
1 NOT APPLICABLE	Æ -	No	SAM	PCES	14	ve E	eser As	1/	1/200	7		
2 3		OR P	CAN		e 70	Nevy			***************************************		***************************************	***************************************
4												
5												
6												
7												
8												
9				***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
10												

BOROUGH OF BOSWELL

331 Center Street Boswell, PA 15531

June 11, 2003

Terence J. Ostrowski, P.E. 613 Baltimore Drive, Suite 300 Wilkes-Barre, PA 18702-7903

RE: Storm Water Problems

Telephone: 814-629-6121

Fax: 814-629-6121

Dear Mr. Ostrowski,

We received a copy of your form on storm water problems within our municipality from Cambria-Somerset Council of Governments. We are presently doing a study in our borough and it is being done by Sean Isgan, CME Engineering, 165 East Union St., Somerset, PA 15501, telephone 814-443-3344. You can contact him for the information you need for our borough.

If you have any questions, please call the above number. I am in the office, Wednesdays, 9:00 to 10:00 AM each week.

Thank you for your consideration of this matter.

Sincerely, BOROUGH OF BOSWELL

Connie Anopsnyder
Connie Knopsnyder
Borough Secretary

BORTON LAWSON ENGINEERING

CLB ORY
TEL TIMO

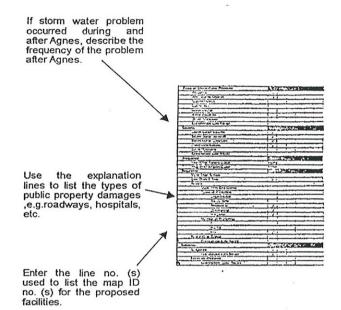
RIM JUN 1 3 2003
COM CONTRACT
PROJECT NO.

	FORM	A - ST	ORM W	/ATER F	PROBLE	M ARE	AS S	SHEET	l	OF		
WATERSHED		FC	ORM C	OMPL	ETED	BY	Befo	ore Fil	ling C	out Fo	rm, Back	
Name: STONY CREEK	RIVER	Nan	ne:	TEAN	VE M.	TOHALSON				0 011	Daon	
Municipality: BERLIN BOR		Tele	phone	(814)	267-4	764NSON 1929	For	Count	ty Use			
County: SOMERSET		Date	e:	07-2	25-05				,			
MAP NO. *	A- 1	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	IA-
Types of Storm Water Problems								T			1	1
Flooding					T		T		1	1	1	1
Accelerated Erosion				T	T			1		1	1	+-
Sedimentation	V		T					1	1	1	1	
Landslide			1		1		1		1	†	+	1
Groundwater					1	\top		 		1	+	+
Water Pollution			1	1	1		1	T		_	+	
Other (Explain)				1	1	1		-	 	 	+	
Explanation Line No. (On Back)	1			1	+	+-	_	+	 	+	+-	
Cause (s)			1	_	+	+	-	 	_	 	+	
Storm Water Volume	V		1	-	-	+	_	-		┼──	+	
Storm Water Velocity			1		+	+-		-	-	-	\vdash	
Storm Water Direction			 	+	+	-		-	-	-	+	\vdash
Water Obstruction	V		1	-	-	+				-	-	
Other (Explain)	-		+	+	+	+					-	
Explanation Line No. (On Back)	2		+	+	-	+		-			-	
Frequency			 	-	+	-						
Year Most Recent Occurred	2004		 	+	-	-					-	
Year First Known Occurred	≈1996		╁──	+	 	+		-				
Regularity	~1170		+	+	-						\vdash	
More Than 1 Year	V		 	+	 						\vdash	
Less Than 1 Year			 	 		+-+					-	
Only During Agnes	-		├──	 	-	-						
Duration (If Applicable)			 	 		-	-					
Less Than 1 Day	V		-			-						
1 Day + (Enter Days)			 		-							
Property Damage				-								
Loss of Life/Vital Services			2.12		-							
Private		-										
				15.73	37.4							
More Than One Owner	V)	4.5							
Types of Properties	RESID.			ļ								1
Number of Properties	5											
Public (List Types)	-									1 1	. 1	
Explanation Line No. (On Back)	3											14
Solutions	+											
Suggested									T			
Explanation Line No. (On Back)	1											
Formally Proposed	V										T	
Explanation Line No. (On Back)	4											
Include Map ID No. if found of	on any oth	er for	m listir	ng prop	osed	facilitie	S.					

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion
The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

	EXPLANATION LINES (continued) 48" STORM SEWER OUTFALLS INTO WETLAND AREA WITH LITTLE GRADE. SEDIMENTATION HAS REDICED CAPACITY OF THE PIPE & OUTFALL CHANNEL. STORM WATER PRODUCED FROM SIGNIFICANT RAIN EVENTS (EX. THAN Y-FRANCES IN 2004) CAN NOT BE PROPERLY CONVEYED WHICH RESULTS IN FLOODING.
3	SEDIMENT OBTRUCTS THE PIPE + OUTFALL ARGA. ROAD CINDERS VECESSARY FOR WINTER MAINTENANCE ESPECIALLY FOR PENNDOT ROADWAYS WITHIN THE BOROUGH (BROADWAY, MAINTENANDS 575.) CONTRIBUTE TO SEDIMENTATION AT THE OUTFALL. FLOODING THE N OCCURS DURING LARGE STORM EVENTS BECAUSE STORMWATER VOLUME TOO MUCH FOR AVAILABLE CAPACITY FLOODING IS RESIDENTIAL BASEMENT PLOODING WITHIN THE LOW LYING STEWART ST. + SWALLOW ST ARGAS.
4	ADDING A 24" HPPE STORMSEWER TO SOUTH SIDE OF STEWART ST WHICH WILL OUTLET TO A PROPOSED TO HOPE STORMSEWER TO PARALLEL THE EXISTING 48"SS ALONG WILSON DRIVE AND WILL OUTFALL TO THE SAME LOCATION AS THE 48"SS OUTFALL.

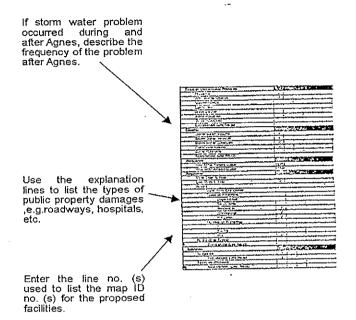
	FORM	A - STO	RM WA	TER PR	OBLEM	AREA	s				SHI	EET_	1	0	=	
WATERSHED Name: STOPY CREEK R	zvkR	Name	RM CO e:	KERRY	o comb	ł	See	re Fill Instru	ctions	s On E						
Municipality: BERLIN BORG)4Ch	Telep Date:	hone:	814.2	67-3 7-03	837	For (Count	y Use	:		•				٠
MAP NO. *	A-1	A-2	Α-	A-	A-	Α-	A-	A-	A-	A-	A-	A-	Α-	A-	A-	A-
Types of Storm Water Problems		<u> </u>														
Flooding	/	-				<u> </u>										
Accelerated Erosion	<u> </u>								<u></u> .		<u> </u>					
Sedimentation	V	V				ļ										
Landslide								<u> </u>			<u> </u>		<u></u>			
Groundwater										<u> </u>			<u> </u>			
Water Pollution	<u> </u>			<u> </u>				ļ		<u> </u>			<u> </u>			
Other (Explain)										<u> </u>			<u> </u>			
Explanation Line No.					<u> </u>			<u> </u>			<u> </u>		<u> </u>			
Cause (s)	<u> </u>					<u> </u>		ļ	ļ	ļ	ļ	ļ	<u> </u>			
Storm Water Volume	/			L							<u> </u>					
Storm Water Velocity	<u> </u>	<u> </u>		<u> </u>	ļ	ļ		<u> </u>		<u> </u>	<u> </u>		<u> </u>			
Storm Water Direction	ļ					<u> </u>				<u> </u>		ļ	<u> </u>			
Water Obstruction		<u> </u>				<u> </u>		<u> </u>		<u> </u>	ļ	ļ				
Other (Explain)	<u> </u>	<u> </u>				ļ		<u> </u>		<u> </u>	<u> </u>		ļ	ļ		
Explanation Line No.		ļ						<u> </u>		<u> </u>	<u> </u>					
Frequency	ļ	<u> </u>				<u> </u>		<u> </u>			<u> </u>	<u> </u>				
Year Most Recent Occurred		2003	<u> </u>		ļ	ļ		<u> </u>			ļ					
Year First Known Occurred por Kn	, v.v	4		ļ	ļ			<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		,	
Regularity	ļ	ļ	<u> </u>	ļ		ļ		<u> </u>			<u> </u>	<u></u>	<u> </u>			
More Than 1 Year	<u> </u>	V				ļ	<u> </u>	ļ			<u> </u>	<u> </u>	<u> </u>			
Less Than 1 Year	ļ	<u> </u>				ļ		 			<u> </u>		<u> </u>			
Only During Agnes	ļ	ļ				ļ	ļ	<u> </u>		<u> </u>	ļ					
Duration (If Applicable)	ļ	 				ļ	<u> </u>	ļ			ļ	ļ	ļ			
Less Than 1 Day	/	~				<u> </u>	ļ		ļ	ļ	ļ	ļ	ļ		٠.	
1 Day + (Enter Days)		-			ļ	<u> </u>	ļ	ļ	ļ	ļ	<u> </u>	ļ	ļ		ļ	
Property Damage		<u> </u>		ļ		ļ	<u> </u>	 		ļ	ļ	ļ				
Loss of Life/Vital Services		ļ			<u></u>	ļ	<u> </u>	<u> </u>	<u> </u>	ļ		ļ	<u> </u>			
Private						<u> </u>				ļ	<u> </u>					
More Than One Owner	V	AACA	S . 15	7.0		<u> </u>		<u> </u>		ļ	 	<u> </u>	<u> </u>		<u> </u>	
Types of Properties Resabs	4.2.4.L	HOR	Env.	7.4	ļ		<u> </u>	<u> </u>	<u> </u>	—	<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Number of Properties	4	6	<u></u>			<u> </u>	ļ	<u> </u>	ļ	-	ļ	<u> </u>	<u> </u>	<u> </u>		
Public (List Types)		ļ						 	 	-	ļ	Ь—	<u> </u>			
Explanation Line No.	 	 	 	<u> </u>				 	 	₩-	 	 	<u> </u>		<u> </u>	
Solutions		-				ļ		-		ļ	ļ	ļ				
Suggested	 	5	 	<u> </u>		<u> </u>	 	 	 				 	 	<u> </u>	
Explanation Line No.	 			 		-	 	 	 	 	-	 	 	 	<u> </u>	
Formally Proposed	 	-		 		 	 	ļ		-		 	<u> </u>	<u> </u>		
Explanation Line No. * Include Map ID No. if found or		than fa	mo lieti			fo allif		<u> </u>	ļ	1	<u> </u>	Ц	L	L		
EXPLAINATION LINE(S) 1) DRATAGE DITCH 2) 3) 4) 5) 6) 7) 8)								720	2 ~							
4)	·····															
5)																
6)											······					····
7)																
8)																

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landsides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

EXPLANATION LINES (continued)	
	^
	<u> </u>
	/

		LAWSON ENGI	NEERING
	RORTON	LAWSON ENGI	<u> V </u>
ŗ	CLB	JORY TJO	
	TEL	<u> </u>	
Ì	TMM	4 0 2002	
١	R.M.	JUL 1 0 2003	CORRESPONDENCE
1	CDM		D AGREEMENT CONTRACT
١	JPG		PROJECT NO.
١	PJE		
١			

Phone: (814) 267-38.7 Fan: (814) 267-30.7

Bedin was scuted in 1768, and incorporated into a rown in 1837. It is 2400 feet above sea level and is the most beautifully situated town in Somerset County. "The healthiest place on earth."

The Borough of Berlin

700 North Street Berlin, Somerset County, Pennsylvania 15530

FAX TRANSMITTAL

TO:

Terrence J. Ostrowski, P.E.

FROM:

Kerry Claycomb

SUBJECT:

Storm Water Form

DATE:

June 26, 2003

TOTAL NUMBER OF PAGES INCLUDING THIS SHEET: 2

8142673017

	FORM	4 - STO	RM WAT	TER PRO	OBLEM	AREA	s				SHE	EET_	1	01	= 1	
WATERSHED			M CO	Vean	,		See	re Filli Instru	ctions	On E						
Name: STONY CREEK R	EVER	Name	e:	CLAY	comB											1 6
Municipality: BERIZE RORO	14 C H	Telep	hone:	814-2	67-3	837	For (County	y Use							1
County: Somease		Date:	hone:	6-17	7-03											
1111												-	-	1.	1.	14
MAP NO.	A-1	A-2	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A- :
Types of Storm Water Problems	1															
Flooding		/														,
Accelerated Erosion	V	V														
Sedimentation	V	-										-				,
Landslide Groundwater															-	1
Water Pollution																
Other (Explain)																
Explanation Line No.																
Cause (s)																
Storm Water Volume	1															
Storm Water Velocity																
Storm Water Oirection																
Water Obstruction ·	1	1														
Other (Explain)													NO.			
Explanation Line No.																
Frequency																,
Year Most Recent Occurred	2003	2005														i
Year First Known Occurred por Ko																i
Regularity																1.1
More Than I Year	~	V														
Less Than 1 Year																
Only During Agnes							-									
Duration (If Applicable)						Me ji	-					-	-			
Less Than 1 Day	/	/						-								-
1 Day + (Enter Days)										-					-	- ;
Property Damage										-						1
Loss of Life/Vital Services															-	
Private Mare Than One Owner	1	1														-
More Than One Owner Types of Properties Research	THE	AGA	De AT	WE												1
Number of Properties	4	6														
Public (List Types)		-									-					
Explanation Line No.																
Solutions																
Suggested	1	2														:
Explanation Line No.	1															1
Formally Proposed																
Explanation Line No.																
* Include Map ID No. if found or	any o	ther fo	rm listi	d brot	posed	facilit	ies.									ì
EXPLAINATION LINE(S)		1	0-			0			^							
1) DRAZNACE DITCH	245	5	KENO	rAL	OF (0.62	Kuc	120	n7							
2)																
3)															-	
5																
6)																
1) DRAT ACE DITCH 2) 3) 4) 5) 6) 7) 8)																
8)																
7																

\triangle				FORM C - EXIS	TING FLOOD	CONTROL PR	OJECT	SHE	EET OF /
WATERSHE	ED .	FORM CO	MPLETED	BY ,			TYPICAL TYPES OF	FLOOD CONTROL PROJEC	CTS
Name: Municipality: County:	STONYOREEK RIVER BERLIN BOROUGH SOMERSET	Name: Telephone: Date:	JEANNE N (814) 267 07-25-0	1. Johnson -4929 5		Channel Exca Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
For County L	Jse:	***************************************							
Map ID No.	Type of Flood Control Project	t	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.		Owner Name, Address, and	d Phone
C-	NONE								
C-									
C-									
C-									
C-									3.
C-		wii	ā						
C-	,								

		4		FORM D - P	ROPOSED	FLOOD CO	ONTROL PI	ROJECT			SHEET	OF	
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL	TYPES OF I	FLOOD CO	NTROL PR	OJECTS		
Name: Municipality: County:	STONYCREEK RIVER BERLIN BOROUGH SOMERSET	Name: Telephone: Date:	JEANNE J (814) 267- 07-25-0	0HNSON 4929 8			xcavation / ealignment ap			Levee Gabions Pipe Chan	Flo	ms oodwall ncrete Lining	
For County U	se:												
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	dy Phase Be Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner Nan	ne, Address, and Ph	one
D-	NONE												
D-													
D-													
D-								÷		2			
D-										1			
D-													
D-									5				

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

\limits			FORM E - EXISTING STORM WATER CONTROL FACILITIES	ONTROL FACILITIES	SHEET OF	
WATERSHED	Ω:	FORM COMPLETED BY				7
Name: Municipality: County:	STONY CREEK RIVER BERLIN BOROWGH SOMERSET	Name: Telephone: Date:	JEANNE M. JOHNSON (BH) 267-4929 07-25-05	Definition of Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	signed and / or ir runoff	
For County Use:	Jse:					
Map ID No.	Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments	_
<u>-</u>	DETENTION/RETENSION BASIN	1999	BERLIN ALLIANCE CHURCH	725 N. BROWDWAY, BERUN 267- 4663	EXCELENT STAIN OF CATTALIS	T
ù						T
ம்						T-
Ē.						T
ш						_
ய்						_
Ē.						T
ம்						_
ů.						_
ம்						1
ம்						-
ம்						1
ம்						T
ம்						T
ம்						T
ம்						Т
ம்				0		T
ம்						T
ம்						7
ய்						T
Ė						
ம்						T-
TYPICAL TYPES OF Detention / Retention Natural Pond or Wetlin Parking Lot Pondling	TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Roo Natural Pond or Wetland Parking Lot Pondling	ITIES Roof-Top Storage Semi-Pervious Pav Infiltration Device (IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	ind Tank)		CHARLES OF STREET, STR

•				FORM F - P	ROPOSED	STORM WATER CONTROL FACILITIES	SHEETOF
WATERSHE Name: Municipality: County:	STONYCREEK RIVER BERLIN BOROUGH SOMERSET		MPLETED I JEANNE M (814) 267 07-25-01	JOHNSON 4929		Storm Water Control Facility A natural / man-made device or structu utilized to reduce the rate and / or volui from a site or sites.	
For County U	Jse:						
Map ID No.	Type of Storm Water Control Facility INFILTRATION DEVICE		Proposed Co Start	End 9/2005	Map No. Form A*	Contact Person Name, Address and Phone HAYES LARGE ARCHITECTS (814) 946 - 0451 PD BOX 1784, ALTODNA, PA 1660Z	Comments BEING CONSTRUCTED AS PART OF NEW ADDITION TO SCHOOL - COLLECT WATER FROM NEW ADDITION & NEW PARKING LOD.
F-							
F-							
F-		augy popular year old a room, qui had di Phin y Philip Double en		· · · · · · · · · · · · · · · · · · ·			
F-							
F-							
F-	*						
F-							
F-							
* Enter the s	torm water problem area's Map ID	No., if the pro	oposed proje PES OF ST	oct will solve ORM WATE	or reduce a R CONTRO	ny / all of an identified drainage problem. DL FACILITIES	
Detention / R Natural Pond Parking Lot P						Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage	e / Recharge Basin or Underground Tank)

					FORM G - E	EXISTING S	STORM WA	TER COLLI	ECTION SYST	EMS		SHEETOF	1 SYSTEM 121-12	2
WATER	SHED		FORM CC	MPLETED	BY				INSTRUCTIO	NS Fatablish	an aninta to	show shapes in system	alamanta	
Municip	STUNY C ality: BERL SOMERS	<u>REEK RIVER</u> IN BORDUGI ET	Name: Telephone: Date:	JEANNE 1 (814) 267 08-11-0	-4929	pipe size, information	or pipe dire n on constru nsecutively	ction. (If unluction is ava ex. G-1.G-	known, outline ailable. Use a s ·2.G-3) Start th	the system e separate form ne first point	extent.) Con n for each s in each add	show changes in system nplete this form only wher ystem. Identify the points litional system 20 number	re specific within a rs higher.	
			to all Elemen	12 (11)	Τ	For examp Measure	ole, G-3 end	s one syste	em, so G-23 be	gins the nex	t. See Sam Design	ple Diagrams & Form on	Reverse. Name of Final	1
	ap I.D. No.	Sys	tem's Elemer	its (x)	Pipe		hannel / Sw	ale	Material	Year	Data	Contact Person	Ownership and	MAP# STREET
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility	
G- 2	G- 123	Х			24"				CPT	UNKNOW	UNKNOWN	267-4621	BERLIN BROS VALLEY SEHOOL	1
G-	G-													-
G-	G-													-
G-	G-													-
G-	G-													-
G-	G-													-
G-	G-						MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET MARKET							
G-	G-													
G-	G-													-
G-	G-						- ALEXONOM TENEDOCATOR							-
G-	G-													-
3-	G-													-
S-	G-													
G-	G-													
	G-	A 1	;								·			
See me	easuremen	t key on reve	ise side.											

MATE	RSHED		T FORM CO	MPLETED E	3Y	T			INSTRUCTIO	NS		year ann ann an Bhailigh aig Bary Ann an Bhail air aine air an Lore Lore Ann an Aire an Aire an Aire an Aire a		
VVAILI	COLLED		1 Ortivi oo	IVII ELTED		Diagram e	each system	on the app	opriate map.	Establish m	ap points to	show changes in system	n elements,	1
Name:	STONYC	REEK RIVET	Name:	JEANNE M	1. JOHNSON	pipe size.	or pipe dire	ction. (If unk	nown, outline	the system	extent.) Cor	mplete this form only whe	ere specific	
Municip	ality: BERL	IN BORDUG	<u>Н</u> Telephone:	(814) 267-	4929	linformatio	n on constr	uction is ava	ilable. Use a s	separate forr	n for each s	system. Identify the point	s within a	
	SOMERS		Date:	08-11-05	5	system co	nsecutively	(ex. G-1,G-	2,G-3) Start th	ne first point	in each ad	ditional system 20 number	ers higher.	
								ds one syste	m, so G-23 be	gins the nex		ple Diagrams & Form on	Reverse.	
M	ap I.D.	Sys	stem's Elemen	ts (x)		Measure			M-4	Vana	Design	Contact Person	Name of Final	
	No.				Pipe		hannel / Sv		Material	Year	Data Available		Ownership and	ľ
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr. REPLACED		KERRY CLAYCOMB	Maintenance Responsibility	
G-133	G-134	X			8"				CPT	2004	NO	B14) 267-3837	BERLIN BORDUGH	
3-	G-													
3-	G-													
}-	G-													
	G-													
	G-													
_	G-										×			
_	G-													
-	G-													
-	G-													
-	G-											***************************************		
-	G-													
	G-													
	G-													
	G-		,								٠			

					FORM G - E	EXISTING S	STORM WA	TER COLL	ECTION SYST	EMS		SHEETOF	1 SYSTEM 144 TO	145
Municip	STONYC		H Telephone:	JEANNE 1	4. JOHNSON - 4929	pipe size, information system con	or pipe dire n on construnces	ction. (If unluction is ava (ex. G-1,G-	known, outline iilable. Use a s 2,G-3) Start th	Establish m the system separate form he first point	extent.) Com m for each s in each add kt. See Sam	o show changes in system of the system of the system. Identify the points of the ditional system 20 numbers on the points of the Diagrams & Form on F	e specific within a s higher. Reverse.	
M	ap I.D.	Sys	tem's Elemen	ts (x)		Measure	ments *				Design		Name of Final	Maf
	No.				Pipe	I	hannel / Sw		Material	Year	Data	Contact Person	Ownership and	INVI
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available		Maintenance Responsibility	- ,
G- 144	G- 145	Χ			8"				CPT	UNKNOWN	Probably	Wayne Henolevson (814) 267-4621	BERLIN BROS VALLEY SCHOOL	_
G-	G-													_
G-	G-													_
G-	G-													4
G-	G-								-					
G-	G-													_
G-	G-													1
G-	G-													_
G-	G-													_
G-	G-													_
G-	G-													4
G-	G-													_
G-	G-													_
G-	G-													4
G-	G-		2											
See me	easuremen	t key on reve	rse side.											

	>				FORM G - E	EXISTING S	TORM WA	TER COLLE	ECTION SYST	EMS		SHEETOF	SYSTEM 155 T
Name:	RSHED STUNY C	REEK RIVER	Name:	MPLETED JEANNE 1	M. JOHNSON	nine size.	or pipe dire	ction. (If unk	known, outline	Establish mathematical the system	extent.) Cor	show changes in system	re specific
Munici	pality: BERL SOMERS	IN BOROUGI	Telephone:	(814) 267 08-11-0	· 4929 5	system cor	nsecutively	(ex. G-1.G-	2.G-3) Start th	ne first point	in each add	ystem. Identify the points litional system 20 numbe ple Diagrams & Form on	rs higher
	lap I.D. No.		tem's Elemen		Pipe	Measure	ments * nannel / Sw	ale	Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From G- 155	G-156	Pipe	Open Channel	Swale	D 6"	TW	В	Depth	CLAY	Collsti.	CINKNOWN	Hame and Filone	BERLIN BOROUGH
	G-157	χ			8 "				()	u	′/		l)
		Χ			10"				RCP	l t	1,		L
g-159	G-158	Χ			8"				CLAY	/1	"		<i>''</i>
g-160	G-161	X			10"				RCP	11	1,		U
	G-161	X			15"				RCP	/(',		1 (
3-161	G-16Z	X			<i> 5"</i>				(/	/,	1,		(1
}-	G-												
} -	G-												
<u>}-</u>	G-												
<u>-</u>	G-			`								And the state of t	
}-	G-												
)- }-	G-											-	
,	G-		,								٠		

^{*} See measurement key on reverse side.

(FORM G - I	EXISTING S	STORM WA	TER COLL	ECTION SYST	EMS		SHEETOF	1 SYSTEM 172 TO	180
W	ATER	SHED		FORM CC	MPLETED	BY	T			INSTRUCTIO					
							Diagram e	ach system	on the app	ropriate map.	Establish m	ap points to	show changes in system	elements,	
Na	ame:	STUNYC	REEK RIVER	Name:	JEANNE /	M. JOHNSON	pipe size,	or pipe direc	ction. (If unl	known, outline	the system	extent.) Co	mplete this form only where	e specific	-
			IN BORDWAY				information	n on constru	action is ava	ailable. Use a s	eparate for	m for each s	system. Identify the points ditional system 20 numbers	within a	
Co	ounty:	SOMERS	ET	Date:	08-11-0	5	system col	nsecutively	(ex. G-1,G-	2,G-3) Start tr	ains the nev	vt. See Sam	ple Diagrams & Form on F	Severse	İ
-	110	p I.D.	T Syst	L tem's Elemer	nte (v)	Т	Measure		S One Syste	111, 30 0-23 00	T The rich	Design	l Biogramo a Form on T	Name of Final	1
		No.	Jysi	tems Elemen	113 (٨)	Pipe		hannel / Sw	ale	Material	Year	Data	Contact Person	Ownership and	MAP#/STREET
F	rom	To	Pipe	Open Channel	Swale	D	TW	В	Depth	1	Constr.	Available	Name and Phone	Maintenance Responsibility	
V		G- 173	\/			15"				RCP OR PVC	UNKNOWN			BERLIN BOROUSH	#6/SR 160
1		G-174	X			15"				1/	//			PENNDOT	#6/SR 160
		G-174	.X			12"				RCP	11	UNKNOWN	DENNIS BRANT (BI4) 267 - 4641	SNYDER OF BERLIN	,
71	1	G-176	X			15"		,		HOPE	2003/2004	UNKNOWN	DENNIS BRANT	SNYDER OF BERLIN + PENNDOT	#6/SR 160
		G-177	Χ			11				RCP	UNKNOWN	11	Ц	L1	l l
		G-178	X			18"				RCP	((1,	(,	(1	11
		G-180	X			18"				HPDE	t(l ₁	11	. 1/	u
7		G-180	X			18"				U	1/	U	MIKE BOWSER (814).445-7905	PENNDOT	**
G-		G-													
G-		G-													
G-		G-													_
G-		G-													
G-		G-													
G-		3-													
G-		3-		;								,			

^{*} See measurement key on reverse side.

					FORM G - I	EXISTING S	TORM WA	TER COLLI	ECTION SYST	TEMS		SHEET 2 OF	2 SYSTEM 200-218	
WATE	RSHED	·	FORM CO	MPLETED	BY	Diagram ea	ach system	on the app	INSTRUCTIO	DNS Establish m	ap points to	show changes in system e	lements,	
Name:	STONYO	REEK RIVER	Name:	JEANNE 1	1. JOHNSON	nine size o	r pipe dire	ction. (If unl	known, outline	the system	extent.) Cor	mplete this form only where	specific	
Municip	ality: BER	LIN BOROUGI	H Telephone:	(814) 267	-4929	linformation	on constru	iction is ava	ailable. Use a s	separate for	m for each s	system. Identify the points w	vithin a	
County	SOMERS	ET	Date:	08-11-0	5	system con	secutively	(ex. G-1,G-	2,G-3). Start ti	ne iirst poiiit	d See Sam	ditional system 20 numbers ple Diagrams & Form on Re	nigher. everse	
	ap I.D.	I Sve	tem's Elemen	ite (y)	<u> </u>	Measuren		3 Une syste	111, 30 0-20 00	T	Design	pio Diagramo a Form on the	N- f Cin ol	.,
101	No.	l Oys	tem s Elemen	10 (X)	Pipe		annel / Sw	ale	Material	Year	Data	Contact Person	Ownership and	MAP#/STREET
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth]	Constr.	Available	Name and Phone	Maintenance Responsibility	1,, /
G- 213	G-214		χ			18'	1'	3'	ROCK	2005	YES	R.P. FOGLE ENGRG (814) 267-4929	BERLIN BOROLLAH	MAP#/STREET #//Shodylane
G-	G-													
G-	G-									-				
G-	G-													
G-	G-											MENDOCK BETTO THE SECOND CONTRACT CONTR		
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-											***************************************		
G-	G-		,								,			
* See m	easuremer	nt key on reve	rse side.											

-						FORM G -	EXISTING S	STORM WA	TER COLL	ECTION SYST	EMS		SHEE7 OF _	7 SYSTEM 200-2	18
eb	WATER	RSHED		FORM CO	MPLETED	BY	Diagram	ach system	on the ann	INSTRUCTIO		nap points to	show changes in system e	ements.	
	Name:	STUNY (REEK RIVER	Name:	JEANNE 1 (814) 267	M. JOHNSON - 4929	pipe size.	or pipe dire	ction. (If un	known, outline ailable. Use a s	the system separate for	extent.) Cor m for each s	mplete this form only where system. Identify the points w	specific ithin a	
		SOMERS		Date:	08-11-0	5	system co	nsecutively	(ex. G-1.G-	-2.G-3) Start th	ne first point	t in each add xt. See Sam	ditional system 20 numbers aple Diagrams & Form on Re	higher. everse.	
	M	ap I.D. No.	Sys	tem's Elemer	nts (x)	Pipe	Measure		ale	Material	Year	Design Data	Contact Person	Name of Final Ownership and	MAP#/STREET
_	From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available		Maintenance Responsibility	#1/58710
٧	G- 200	G-201	Х			17"				HDPE	1999	YES	BERLIN ALLIANCE OHURCH (814)267-4663	BERLIN BOROUGH	#4/SRZIO SHADYI
-		G- 202	X			i,				1/	ll	1,	L)	U	#4/ 11
4		G-203a	X			15"				l)	И	U	'/	И	"
17		G-205	X			15"				SDR 35	ft	U	l/	U	U
		G-206	X			30"				HDPE	2005	ţ ī	RD. FOGUE ENGRG (814) 267-4929	и	#4/Shar
- 1		G-207		X			18'	(,	3'	ROCK V-DITCH	11	11	17	17	# / /Shac
- 1		G-208	X			30"				HPDE	1)	11	1/	11	1/
ſ		G-209	,	X			18'	1'	3'	ROCK V-DITCH	11	1,	ι,	4	11
1		G-216	X			12"				RCP	UNKNOWN	UNKNOWN	MIKE BOWSER (BIA) 445-7905	PENNDOT / BERLIN BORG	#5/BEN
T	G-216		X			611				CLAY	ŧŧ.	l/		BERLIN BOROUGH	1/
4	G-217	G-209	X			64				CPT	UNKNOWN	UNHOWN	T-RICH CRONER PRIVATE PROPERTY	T. RICH CRONER	#1/TO SHA
T		G-210	,	X			18'	1'	3'	ROCK	2005	ES	RD FOGLE ENGRG (814) 267-4929	BERLIN BOROUGH	# 1 Shady
	g- 210		X			30"				HDPE	11	11	ι_{l}	U	# 1 Shady
		G 7.12		X			n	Ti	11	ROCK	Tt.	11	l ₁	L	11

HDPE

11

11

11

11

30"

^{*} See measurement key on reverse side.

	FORM G - E	EXISTING STORM WATER COLLECTION SYSTEMS SHEE
WATERSHED	FORM COMPLETED BY	INSTRUCTIONS
		Diagram each system on the appropriate map. Establish map points to show pipe size, or pipe direction. (If unknown, outline the system extent.) Complete
Name: STONY CREEK RIVER	Name: JEANNE M. JOHNSON	pipe size, or pipe direction. (If unknown, outline the system extent.) Complete

changes in system elements. Name: JEANNE M., JOHNSON pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher

OF 7

For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Ma	p I.D.	Sys	tem's Element	ts (x)	T	Measure		3 one syste	1	1	Design	pio Biagramo a romi on re	Name of Final	
	No.		Elonion	()	Pipe		nannel / Sw	ale	Material	Year	Data	Contact Person	Ownership and	
From	То	Pipe	Open Channel	Swale	Ď	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility	
	G- 2	X			8"				CPT	≈ 1978	?	KERRY CLAYCOMB >	BERLIN BOROUGH	
	G- 24	Х			12"				RCP	tt	7	11	$\rho = -U$	
	G- 6	χ			8"				CLAP	=1930	NONE	ų	n "	
	G- 4	Х			8"				CLAY	Ц	1,	1,	u "	
	G- 5	Х			8"				CLAY	Ц	μ	31	tt U	
-	G- 7	Х			10"				CLAY	ч	h	11	li ti	
	_{G-} 7	×			8"				lı	u	11	Ч	Į (1)	
	G- 8	×			15"				HDPE	U NKNOWN	ı f	ħ	15	
0	G- 9	Х			15"				11	a	1970'5	l t	tt 'I	
	G- 10	X			15"				11	7.1	1970 '5	11	10 //	
	G- G12	X			8"				CLAY	b	Ų	tr	11 1/	
	G- 10	χ			10			ř	ij	ι(ti	ĸ	к 11	
	G- 14	Х			6"				PVC	l t	1,	t ₁	" "	
	G- 16	X			6"				PVC	"	U		r //	
	G-17	X	١		(1				1	Ci	\vec{u}	4	11	

* See measurement key on reverse side.

Municipality: BERLIN BORD

County: SOMERSET

MAP SHEET # STATE

SYSTEM 1 to 101

STEWART ST STEWART S'T

/8TH AVE

/MAIN ST

MAIN TO MULBERRY NORTH ST

19TH AVE

/ NORTH ST

/8THAVE

MEADOW

/MEADOW

·																		٦
					FORM G -	EXISTING S	STORM WA	TER COLL	ECTION SYST	EMS		SHEET	20	F	7	SYSTEM	1 70 101	
WATE	RSHED		FORM CC	MPLETED	BY	T			INSTRUCTIO									
						Diagram e	ach system	on the app	ropriate map.	Establish m	nap points to	o show change	s in syste	m el	ements,			
Name:	STONYCRU	EK RIVER	Name:	JEANNE 1	1. JOHNSON	pipe size,	or pipe dire	ction. (If unl	known, outline	the system	extent.) Co	mplete this form	m only wh	ere :	specific			
		IN BOROUGH	Telephone:		-4929	information	n on constru	uction is ava	ailable. Use a s	separate for	m for each	system. Identify	y the poin	ts wi	ithin a			
County	SOMERSE	T	Date:	08/10/09	5	system co	nsecutively	(ex. G-1,G-	2,G-3). Start th	ne first point	t in each ad	lditional system	1 20 numb	ers	higher.			
			<u> </u>	, .				ls one syste	m, so G-23 be	gins the ne		nple Diagrams	& Form or	n Re				+
N	ap I.D.	Sys	tem's Elemer	nts (x)		Measure					Design	O-vita et D-			Name			MAPSHEET #/
	No.				Pipe		hannel / Sw		Material	Year	Data	Contact Pe			Owners			/STREE
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth	<u> </u>	Constr.	Available	Name and I			Maintenance	Responsibility		1 -1 67
G- 17	G- 14	X			6"				CLAY	tt 1930	UNFNOWN	(8:4) 267-	3837	>	BERLI	N BOROL	iGH	5/NORTH ST 5/NORTH ST
G- 14	G- 16	X			8"				1/	11	1,	11				и		5/NORTH ST
G- 10	G- 19	X			24"				RCP	1970's	μ	1,				11		5/NORTH ST TO STEWART S
G- 19	G- 20	X			11				11	1970's	u	u	("	1/2027-1440	11
	G-21	X			10				1,	≈1978	10	1	1,			(1		5/STEWART ST
	G- 24	X			8"				CLAY	×1978	?		11			IJ		5/STEWART ST 5/STEWART ST () 5/WILSON ST
	G- 30	X			15"				HDPE	2005	YES	RD. FOGLE (814) 267-				Į(5/WILSON 87
	G- 30a	X			[1				11	10	11	· · · · · · · · · · · · · · · · · · ·				\I		
	G- 31.	Χ			30"				k	/(u	l ₁				K		J. X.
	G- 36	Χ			12"				RCP	21930	UNKNOWN	(BI4) 267-				ţl		4 / WASHINGTON
	G- 35	Χ			II				CLAY	LT.	T1	11				u		4 \$5/WASH. 5/MEADOW ST
G- 34	1	X		-	6"				PVC	MNKNOWN	11	11				11		5/ MEADOW ST

CLAY

11

PLASTIC

11

= 1930

UNKNOWN

1,

11

11

1)

11

11

11

11

11

5/NORTH ST

- (1

G- 40 G- 39 X

* See measurement key on reverse side.

Χ

X

X

G- 36 G- 35 G- 34 G-33

G- 33 G- 32

G-41 G-40

8"

12"

15"

					FORM G - E	EXISTING S	STORM WA	TER COLLI	ECTION SYST	EMS		SHEET 3 OF	7 SYSTEM 1 to 101	
WATER	RSHED		FORM CO	MPLETED	BY	Diagram e	ach system	on the app	INSTRUCTIOn ropriate map.	Establish ma	ap points to	show changes in system e	elements,	
Name:	STUNYC	REEK RIVER	Name:	JEANNE !	M. JOHNSON	pipe size.	or pipe direc	ction. (If unl	known, outline	the system	extent.) Cor	nplete this form only where	specific	
		IN BORDUGI	Telephone: Date:	(814) 267	- 4929	Information	n on constru nsecutively	iction is ava	allable. Use a s 2 G-3) Start th	eparate form	in each add	system. Identify the points v ditional system 20 numbers	s higher.	
County.	SOMERS	t I	Date.	08 11 0	<u> </u>	For examp	ole, G-3 end	s one syste	m, so G-23 be	gins the nex	t. See Sam	ple Diagrams & Form on R	everse.	
М	ap I.D.	Sys	tem's Elemen	nts (x)		Measure	ments *				Design		Name of Final	MAPSHEET #
	No.		T	T 6 1	Pipe		hannel / Sw		Material	Year Constr.	Data Available	Contact Person Name and Phone	Ownership and Maintenance Responsibility	1
From	To G- 53	Pipe X	Open Channel	Swale	8 "	TW	В	Depth	CLAY	0816. 1930 's	UNKNOWN	KERRY OLAY COMB (814) 267 - 3837	BERLIN BOROUGH	#4/BROAD
	G- 52				£(11	t.	ч	c,	"	t i
G- 56	G- 55	χ			6"				PVC	MNKNOWN	и	t ₁	l/	#A/NORTH
	G- 52	X			8"				CLAY	(t	u	l.	1/	
	G- 51	χ.			8"				l _t	1930's	4	l,	l ₁	
-51	G-50	X			u				h	И	n	1,	1,	
-50	G-49	X			8"				RCP	11	lı	\(\mathrea{\psi}\)	U	
	G- 48	X			7.				CLAY	lı	11	l i	11	
	G- 47	X			11				PVC	1:1	lı	t_1	1,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	G-46	Х			10"				CLAY	(1	l,	٠,	()	#44#5/NOI
	G- 45	X			8"				CLAY	lı	17	U	11	#5 NOVETI
	G- 44	X			11				PVC	[1	10	1,	11	-/(
44	G- 43	X			10"				CLAY	1.	li	t ₁	lı	11
43	G-42	X			12 "				1,	tı	/1	1,	lı	11/
426	_{G-} 42a	X	ž		12"				CLAY	t t	1,*	t _t	"	#5/6TH

						FORM G - E	EXISTING S	STORM WA	TER COLLE	ECTION SYST	EMS		SHEET 4 OF	7 SYSTEM 1 to 10.	
-	VATER	SHED		T FORM CC	MPLETED	BY	T			INSTRUCTIO	NS				
							Diagram e	ach system	on the appr	ropriate map.	Establish m	ap points to	show changes in system	elements,	
1	Vame:	STONYO	REEK RIVER	Name:	JEANNE !	4. JOHNSON	pipe size,	or pipe direc	ction. (If unk	known, outline	the system	extent.) Cor	mplete this form only where	e specific	
1	Municip	ality: BER	LIN BORDUGI	Telephone:	(814) 267	-4929	information	n on constru	iction is ava	ilable. Use a s	eparate for	m for each s	system. Identify the points	within a	
1	County:	SOMERS	ET	Date:	08-11-0	5	system co	nsecutively	(ex. G-1,G-	2,G-3) Start tr	e first point	d See Sam	ditional system 20 number ple Diagrams & Form on F	Savarea	İ
1		- 1.0	C	Landa Flamor	ata (w)	Γ	Measure		s one syste	III, 50 G-23 De	Jillo the hez	Design	pie Biagrams a remi em i	Name of Final	- 4/
1	Ma	ap I.D.	Sys	em's Elemer	ils (x)	Pipe		hannel / Swa	ale	Material	Year	Data	Contact Person	Ownership and	MAPSHEET # STREET
+	From	No.	Pipe	Open Channel	Swale	D	TW	В	Depth	i i i i i i i i i i i i i i i i i i i	Constr.	Available	Name and Phone	Maintenance Responsibility	/
F		G- 68	X	Open Channel	Owale	8"				CLAY	1930's	UNKNOWN	KERRY CLAY COMB (814) 267- 3 637	BERLIN BORCUGH	MAPSHEET # STREET #4 / MULBERRY S
T		G-67	X			12"				l/	l1	11	l i	t t	
1		G-65	X			lı				11	71	(1	t i	[/	2
		G-65	X			Ĭ1				lţ	h	U	Ü	V	#4/4THAVE #4/MULBERRY
1	- 65	G-64	X			(_f				((l _I	tr	(1	11	#4 / MULBERRY
1		G- 63	X			15"				((17	1,	(1	V	
1		G-62	X			18"				SMOOTH PLASTIC	UNUNOWN	D	Ų	1)	
		G-61	X			24"				11	11	Li	t ₁	1,	
1		G- 59	X			U				l t	//	1,	/,	4	. \
1		G-58	Χ			30"				PLASTIC	u	lı	//	11	
		G- 59	X	- Landing Republicania Company		12"				RCP	l e	(/	U	l(#5/5THAVE
1	1	G- 59	X	OCTUBER COLUMN THE CHARLES THE SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SECOND SE		10"				RCP	REPLACE 2001	Į¢	1.	t i	#5/5THAVE #4/5THAVE #4/MAIN ST
1		G-78a	1	SUBSURFACE X			3'	3'	3'	ROCK/BRICK	21918	tvo	И	V/	#4/MAIN ST
1	- 1	G- 78		X			ıı.	ų	(1	()	"	11	1,	ų	lι
	1	G-74		X			4	4,	(r	1/	cl	′,	1,	Li	l_1

^{*} See measurement key on reverse side.

					FORM G - 6	EXISTING S	STORM WA	TER COLLI	ECTION SYST	EMS		SHEET 5 OF	7 SYSTEM 1 70 10	
WATE	RSHED		FORM CO	MPLETED	BY	1			INSTRUCTIO	NS				
		-0				Diagram e	ach system	on the app	ropriate map.	Establish m	extent) Con	show changes in system nplete this form only when	elements, e specific	
Name:	STONY	LIN BORDUGE	Name:	JEANNE 1	4. JOHNSON	linformation	or pipe dire	iction is ava	ilable. Use a s	eparate for	m for each s	system. Identify the points	within a	
	SOMERS		Date:	08-11-0	5	Isystem co	nsecutively	(ex. G-1.G-	2.G-3) Start th	e first point	in each add	ditional system 20 number	s higher.	
County	- JUNE N	<u>t 1</u>		00 11 0		For examp	ole, G-3 end	s one syste	m, so G-23 be	gins the nex	xt. See Sam	ple Diagrams & Form on F	Reverse.	_
N	lap I.D.	Sys	tem's Elemen	its (x)		Measure	ments *				Design		Name of Final	MAP# CTOTET
	No.				Pipe		hannel / Sw		Material	Year	Data	Contact Person	Ownership and	NVII "/STREET
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility	
G-84	G-83	X			12"				CLAY	1930's	unknown	*	BERLIN BOROUGH	MAP#/STREET #4/FLETCHER
	G-80	X			Ц				11	u	11		//	!/
G-80	G- 79	χ.			ų				Ц	l(tı		U	/ /
	G-78	X			lı				l1	"(L,		(1	/1
V	G- 88	X			12"				[1	lt	1,		1/	1 (
G- 88		Χ			l(SDR 35	UNKNOWN	и		t,	'1
	G-86	X			tı				CLAY	ų	ч		((L)
G- 86		X			u				RCP	Ц	t ₁		· l	11
G- 85		X			U				CLAY	ιι	3		L ₁	U
G-82		X			6"				PVC	2000	No		11	11
G-81		X			12"				CLAY	1930'5	NNKNOWN		1,	11
1	g- 79	X			Į1				U	11	1/		lı	#4/5THAVE
G-79	1 1	X			Į)				RCP	2001	KD 11		l\	/1
		Χ			8"				CLAY	1930's	lı		Ч	#8/south- #5/
00	G- 91	X	j		8"				CLAY	U	ų		(I	l n / u
* See m	easuremer	nt key on reve	rse side.											-

						FORM G -	EXISTING S	STORM WA	TER COLL	ECTION SYST	EMS		SHEET 6 OF	System 1-101	
l'V	VATE	RSHED		FORM CC	MPLETED	BY	1			INSTRUCTIO	ONS				
1	77 (1 12)	(01122					Diagram e	ach system	on the app	propriate map.	Establish m	ap points to	show changes in system e	elements,	
1	Vame:	STONY	REEK RIVER	Name:	JEANNE /	4. JOHNSON	pipe size,	or pipe dire	ction. (If un	known, outline	the system	extent.) Cor	mplete this form only where	specific	
1	/unicip	ality: BER	LIN BORDUGI	Telephone:	(814) 267	-4979	linformation	n on constru	uction is ava	ailable. Use a s	separate for	m for each s	system. Identify the points w	vithin a	
		SOMERS		Date:	08-11-0	5	system co	nsecutively	(ex. G-1, G-	-2,G-3) Start th	he first point	in each add	ditional system 20 numbers	higher	
									ls one syste	em, so G-23 be	gins the nex	xt. See Sam	ple Diagrams & Form on Re	everse.	_
F	М	ap I.D.	Sys	tem's Elemer	nts (x)		Measure	ments *		1		Design	011-	Name of Final	MAP#/STREET
L		No.				Pipe		hannel / Sw		Material	Year	Data	Contact Person	Ownership and	121700
L	From	То	Pipe	Open Channel	Swale	D	TW	В	Depth	1	Constr.	Available	Name and Phone	Maintenance Responsibility	
G	- 91	G- 75	X			8"				CLAY/PVC	UNKNOWN	UNKNOWN		BERLIN BOROUGH	#7/5THAVE #1/5THAVE
V		G- 7 6	X			((CLAY PVE	((),		l,	TY PLETCHER
		G- 75	X			4				- И	11	U		u	10
		G- 74	X			IJ				PVC	2003	h		и	#4/5THAVE
				SUBSURFACE			3'	3'	3'	ROCY/BRICK	21918	No		U	#5/MAIN ST
G	-73	G- 72 G- 72	X			8"				PVC	? 1970's	UNKNOWN		И	#5/MAIN ST
		G- 71		SUBSURPACE X			3'	3′	3'	ROCK/BRICK	≈1918	No		((#5/1.11 ST
		G- 70		į (u	t_1	71	и	4	U		l ("
		G- 58		И			11	• i	(1	10	V	. ()		11	#5/VINEST
		G- 57		11			C1	IJ	li	C ₁	11	1,		(1	
		G-42a	X			36"				RCP	1960-1970	UNKNOWN	KERRY CLAYCOMB	lı	#5/VINE TO NORTHS
1		G- 39	X			11				11	11),	1,	(,	#5/ VIAL TO LORTH
1		G- 38	X			l _j				l ₁	11	Ŋ	1,	7,	#5/NORTH TO WASH.
		G-35	χ			И				l,	11	11	V _I	IJ	#5/NORTH TO WASH. #5/NORTH TO WAS #5/MEADOW St
G-	35	G-32	X	i		11				11	11	17	Ч	Ц	#5/Meadow St
*	See m	easuremer	nt key on reve	rse side.											

				FORM G - E	EXISTING S	STORM WA	TER COLL	ECTION SYST	EMS		SHEET OF	7 SYSTEM 1-10	1
ATERSHED	AND THE CONTRACT OF A CONTRACT	FORM CO	MPLETED	BY	T			INSTRUCTIO					
			100 100		1	ach system	on the app	ropriate map.	Establish m	ap points to	show changes in system e	lements,	
me: STUNY	REEK RIVER	Name:	JEANNE 1	1. JOHNSON	pipe size,	or pipe dire	ction. (If un	known, outline	the system	extent.) Col	mplete this form only where system. Identify the points w	specific other a	
nicipality: BER	LIN BOROUGH		(814) 267	-4929	Information	n on constru	ction is ava	2 G-31 Start th	ne first noint	in each add	ditional system 20 numbers	higher	
unty: SOMERS	ET	Date:	08-11-0	5	For examp	le G-3 end	s one syste	m. so G-23 be	ains the nex	t. See Sam	ple Diagrams & Form on Re	everse.	
Map I.D.	T Syst	em's Elemen	nts (x)	Γ	Measure		o one oyete	1	I	Design		Name of Final	
No.		om o Elomon	110 (11)	Pipe		hannel / Sw	ale	Material	Year	Data	Contact Person	Ownership and	MAP#/ST
om To	Pipe	Open Channel	Swale	D	TW	В	Depth	1	Constr.	Available	Name and Phone	Maintenance Responsibility	
32 G-31	X			36"				RCP	1976's	UNKNOWN	KERRY (LAYCOMB (84) 267-3837	BERLIN BOROUGH	#5/ s
31 G-28	X			<i>))</i>				11	/(′,	11	17	//
8 G-27	X			1/				le.	1,	lt	1,	1,	11
7 G-21	X			lį				11	11	1/	11	11	#5/STI #5/STI
1 G-23	X			48"				ROP	1978	YES	R.D. FOGLE ENGRG (814) 267-4929	/(#5/51
3 G-24	X			[1				1(11	(1	(/	Ц	
4 _{G-25}	X			1(lı .	U	11	//	11	#5/W
8 G-97	X			8"				PVC	1990's	10		lι	15/SW
7 G-96	X			11				11	11	N		U	11
G-94	X			10"				HDPE	71	H		/\	17
G-94	X			8"				CLAY	f(NO	* :	()	1.1
G-25	X			12"				CPT	lı	H.		Ų	- 13
G- 100					. 8'	3	2'	EARTH	2004	NO		V	1/
() _{G-} 101	X	Χ		12"				RCP	1978	NO		U	11/
5 G-101	X	2		48"				RCP	U	YES	RD. FOOLE ENG.	[/	#5/SU

			T		D\/	T			INSTRUCTION	ONS						1
VATER	SHED		FORM CO	MPLETED	BY						a man noin	I to show cha	nnes in system s	elements, pipe size, pipe direction and	connections	
				_	7.1.	On the map for pro	oposed storm water	er collection systems	s, diagram each propos	ed system. Indicate	ir connectio	n noint into th	e existing system	n Complete a separate form for each t	proposed	
ame:	STONYCRE	EK RIVER	Name: Telephone: Date:	JEANNE M	. JOHNSON	to existing system	s. For proposed as	dditions to existing s	systems, diagram only to	ne additions and the	points within	a system co	nsecutively (ex.)	H-1, H-2, H-3). Start the first point in ea	ch	
unicip	ality: BER	LIN BORD	Telephone:	(814) 26	1-4929	new system and o	ne for each existin	ig system having on	e or more proposed ad	onions identify the p	o show the	noint where n	ronosed addition	s connect into existing systems, using	the map	
ounty:	SOMERS	ET	Date:	08-11-05								point time o p	Topooco Boomon	, , , , , , , , , , , , , , , , , , ,		İ
		·			r			m form and map. Se	ee Sample Diagrams ar	Map I.D.	Pror	oosed	Design	Contact Person	Name of Final	1 ,
Ma	ap I.D.	Sys	tem's Element	is (x)	D:	Measurer	Channel /	Curolo	Material	Nos.**		. Dates	Data	Name and	Ownership and	MAP#/S
	No.				Pipe		Channel /	Depth	iviateriai	Form A	Start		Avail.	Phone	Maintenance Responsibility	/
rom	То	Pipe	Open Channel	Swale	D	TW	В	Deptil		NEW	1			HAYES LANGE APCHITECTS	BERLIN BROS VALLEY SCHOOL	#= 6-10
1	H- Z	X			1811				HDPE	CONST	7/05	10/05	YES	(814) 946-0451		MAP# S #5/STADI
2	н- 3	X			Ŋ				11	11	/1	11	1/	"/	11	1'
D	. 4	X			11				l ₍	$l_{\rm t}$	11	1,	τ_{ℓ}	τ,	17	
3	H- 1	X			Ŋ				11	(t	l ₁	t_1	11	"/	1/	#5/DIM +501 #5 Sch
	H- 5	X			11				11	11	10	11	1,	V	![#5 Sch
5	H- 6				u				11	T,	1,	1,	1,	4	(1	ti
6	H- /	Х			-										U	1
_	H-										1.	"	1,	1.		#5/5CH
8	H- 9	X			24"				Ц	, lı	l _l			U	(/	1 6
	H-															1
	H-															-
	H-				AND THE RESIDENCE OF THE PROPERTY OF THE PROPE											-
	H-			=												
	H-	erenderen er en en en en en en en en en en en en en														
														£		
-	H-				· · · · · · · · · · · · · · · · · · ·							,				

(FORM H - F	PROPOSED	STORM W	/ATER COL	LECTION SY	STEMS			SHEET	OF	SYSTEM H29-H33	
WATER	SHED		T FORM CO	MPLETED	BY	T	***************************************		INSTRUCTION							
WAILIN	OTILD					On the map for pr	oposed storm water	er collection systems	s, diagram each propos	ed system. Indicate	a map poin	t to show cha	anges in system	elements, pipe size, pipe direction and	connections	
Name:	STOUNKE	EK RIVER	Name: Telephone: Date:	TEANNE M	1. THINGON	to existing system	is. For proposed ac	dditions to existing s	ystems, diagram only t	he additions and the	ir connectio	n point into the	ne existing syste	m Complete a separate form for each	proposed	
Municina	ality BER	LIN BORD	Telephone:	1914) 76	7-4929	new system and o	one for each existin	ig system having on	e or more proposed ad	ditions Identify the	points within	n a system co	insecutively (ex	H-1, H-2, H-3). Start the first point in ea	ach	
County	SOMERS	ET	Date:	08-11-05		additional system	20 numbers higher	(if H-3 ends one sy	stem, begin the next w	ith H-23). Be sure to	show the	point where p	proposed addition	ns connect into existing systems, using	the map	
County.	DOPILITY	<u></u>	1	1/1/		point number from	the existing system	m form and map. Se	e Sample Diagrams at	nd Form on Reverse	·			T	Name of Final	+
Ma	ap I.D.	Svs	tem's Elemen	its (x)	1	Measure				Map I.D.	Prop	posed	Design	Contact Person	Name of Final	MADE CORFE
	No.		(01110 210111011	(-)	Pipe	Oper	Channel /	Swale	Material	Nos.**		t. Dates	Data	Name and	Ownership and	MAT H / STACE
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail.	Phone	Maintenance Responsibility	11./6.11.
	H- 30	X		West Control of the C	12"				HDPE	NEW BUS CONT.	07/05	10/05	YES	(814) 946 - C451	BERLIN BROS VALLEY SCHOOL	MAPH STREE # 6/SCHOOL
		X			15") (11	11	11	17	11	1,	1/
H- 30 H- 31	1	X			,				1,	1,	1,	11	1,	4	11	//
					11									//	1/	11
H-22	HG-121 H-G-121	<u> </u>			11				1/	11	11	11	1,	4	11	1/
				MACO MANAGEMENT OF THE PARTY OF					The state of the s							
H-	H-							-		-						1
H	H-															-
H-	H-						WARRY STATE OF THE POST AND									
H-	H-															
H-	H-															_
H-	H-															-
H-	H-						,									
	H-						4000-200-300-300-00									-
						1		1		1	1	1	I	1	1	1

* See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

															10	\neg
					FORM H - F	PROPOSED	STORM W	/ATER COL	LECTION SY	STEMS			SHEET_	OF	SYSTEM H43-H47	
WATER	SHED		FORM CO	MPLETED	BY	T			INSTRUCTIO							
WATER	KOHLU		1 011111 00			On the map for p	roposed storm water	er collection system	s, diagram each propos	ed system. Indicate	a map poin	t to show cha	inges in system (elements, pipe size, pipe direction and	connections	
Name:	STAULTRE	EN RIVER	Name:	TEANNE M	1. THINSON	to existing system	ns. For proposed ac	dditions to existing s	systems, diagram only the	he additions and the	ir connectio	n point into th	ne existing syster	m Complete a separate form for each	proposed	
Municip	ality: BER	EK RIVER	Name: Telephone:	1814) 26	7-4929	new system and	one for each existin	ig system having or	ne or more proposed ad	ditions Identify the	points within	a system co	nsecutively (ex l	H-1, H-2, H-3). Start the first point in ea	ach	
County:	SOMERS	ET	Date:	08-11-05	5							point where p	proposed addition	ns connect into existing systems, using	the map	
	2011		1					m form and map. S	ee Sample Diagrams ar	TAAnn LD	Dror	osed	Design	Contact Person	Name of Final	-
Ma	ap I.D.	Sys	tem's Elemen	ts (x)		Measure	ments *		Adadamial	Map I.D. Nos.**		. Dates	Design	Name and	Ownership and	MAPH STREET
	No.				Pipe		Channel /		Material	Form A	Start		Avail.	Phone	Maintenance Responsibility	/
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		1	-	IGN			BERLIN BOROUGH	MAPH STREET #5/STEWART ST
H- 43	н- 44	X			24"				HDPE	A-1		GE	KES	R.D. FOGLE ENG (8M) 267-4929	PEKTIN DIKONATI	ST
	H- 45	X			36"				It	tr	t)	U	11	l (l/	11
		V			N				tį	11	11	t)	11	U	11	Lf .
	H-46	V			11				()	11) (1,	11	()	//	#5/STEWAR
H-46	H-4/		ļ			 										
H-	H-															
H-	H-															_
H-	H-		-													
H-	H-									,						
H-	H-															_
117	-		1													

* See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

	FORM I - PRESENT	& PROJECTED DEVE	LOPMENT IN THE FLOOD HAZARD AREA	SHEET OF
WATERS Name: Municipa County:		DBY JEANNE JOHNSON (814) 267-4929 08/08/05	FLOOD HAZARD AREA:	DEFINITION DRY LAND AREA THAT HAS BEEN OR IS E TO BEING INUNDATED BY THE OD.
For Cour Map ID No.	TYPE OF DEVELOPMENT	Year Built	Contact Person Name, Address and Phone	Comments
1 -	NONE KNOWN			
1-				
l -				
I -				
1-		-		
1-				
I -				
1-				
1-				·

\nearrow	FORM	J - WA	TER QL	JALITY PI						OI	= 1	
WATERSHED				FOR	RM CC	MPL	ETED	BY				
0 - 11/0				Name	· ·	Tu	1-1 (4 1)-	11	TAHA	ical		
Name: STONY CREEK				Name Telep Date:	hone:	IDI	NNE	7-1	979	300		
Municipality: BERLIN BOR	OUGH			Date.	HOHO.	(00)	-00-	05	7-47			
County: <u>SOMERSET</u>				- Date.		_00	00)		~		
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
Types of Water Quality Problems			T									
High Community Tolerence												
High Temperature								1				
High Turbidity			1									
Hydrocarbon Pollution			1									
Low Community Diversity		1										
Low Dissolved Oxygen		1							1			
Low pH									1			
Nutrient Enrichment									1			
Poor Habitat						1				1		
Other/Explanation Line No.								<u> </u>		 		
Potential Cause(s)										 		
Agriculture							1					1 1
Construction Site			1					1				
Erosion												
Lake Discharge								1				
STP Outfall												
Other/Explanation Line No.										 	-	
Frequency									<u> </u>	-		
Year Most Recent Occurence												
Year First Known Occurence					<u> </u>	4		4				\vdash
Source of Information								4-	-	-		
BWA Streamwatch									1			
County Water Quality Study			1									
Driveby			1							1		
UCCD Complaint Investigation												
										1	1	
Other/Explanation Line No.												
	EXP	LANA'	TION L	INES								
1 ALAXIE	11911	111										
2 NUNE R	NUW											
3		COLUMN TO THE PARTY OF THE PART										
4												
5												
6												
7												
8												
9												
10			***************									

FORM DESCRIPTION SUMMARY ACT 167 WATERSHED STORMWATER MANAGEMENT PLAN

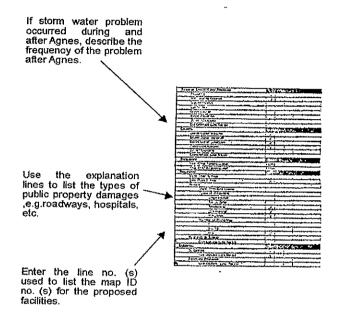
Form	⋖	В	O	Ω	ш	щ	O	I		7
Symbol			\triangleleft	<i> </i>	\Diamond	(•)	\Diamond	•		\$
Description	Stormwater Problem Areas	Obstructions	Existing Flood Control Projects	Proposed Flood Control Projects	Existing Stormwater Control Facilities $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	Proposed Stormwater Control Facilities	Existing Stormwater Collection Systems (C) made channels, diversions	Proposed Stormwater Collection Systems	Present & Projected Development in Flood Hazard Areas	Water Quality Problem Areas
Types of Examples	Flooding, Drainage, Erosion/Sedimentation	Bridges. Culverts, Fill, Structures	Channel excavation, riprap, floodwalls, etc.	Channel excavation, riprap, floodwalls, etc.	Detention basins, recharge basins, roof-	Detention basins, recharge basins, roof-	Storm sewers, man- made channels, diversions	Storm sewers, man- made channels, diversions	Subdivision / site plans	Construction sites, agriculture
Sources of Information	Existing studies or reports, Township Documentation, Personal memory, Township engineers	Ownship files, township roadmaster, township files, subdivision applications, roadmaster, township	Township records, township engineer, owner of facilities	Township records, township engineer, owner of facilitiv	Subdivision files, township engineer,	Subdivision files, township engineer,	Existing plans, township engineer, owner of system	Existing plans, township engineer, owner of system	Flood Insurance Studies, Subdivision / Site Plans, General knowledge, Township engineer, Private flood	Municipalities, Conservation District

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

 EXPLANATION LINES (continued)

NA

		/ V /										
	FORM	A-STO	ORM WA	TER P	ROBLE	M ARE	AS S	SHEET	/	OF		
WATERSHED		FO	RM CO	MPLE	TED	BY	Bef	ore Fi	lling C	Out Fo	rm.	
(338 x 3 3 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						_	1000	Instr	uction	s On	Back	
Name: Henriskie	MAR	Name	e:	Di	ana i	BAXI	41					
Municipality: Adams		Telep	ohone:	487	-50	54	For	Coun	tv Use	ə:		
Name: Aennis Ris Municipality: Haams County: Cambera		Date:		7-1	15-0	5			•			
MAP NO. *	A- /	A- 2	A- 3	A-	A-	A-	A-	A-	A-	A-	A-	A-
Types of Storm Water Problems												
Flooding	X	K	X						1	1		1
Accelerated Erosion												1
Sedimentation		X					T		T			1
Landslide			X		T			1			1	1
Groundwater							T			1	1	1
Water Pollution							1	1	1		+	+
Other (Explain)									1	1	1	+
Explanation Line No. (On Back)								\top	1	_	1	_
Cause (s)		T			1			_	 	1-	+	+
Storm Water Volume								_	 	+	-	+-
Storm Water Velocity	1				†	_	+	_	1	-	-	+
Storm Water Direction						_		_	 	_	+-	+
Water Obstruction					1	+	_	+	 	-	+	+
Other (Explain)					_		 	+	-	-	-	+-
Explanation Line No. (On Back)				-	1	+-	+-	+	 	-		+
Frequency		1				_	 	 	 	-	+	+
Year Most Recent Occurred	05				—		†	 	<u> </u>	 	-	+
Year First Known Occurred				***************************************			 	+-			-	+
Regularity	1						<u> </u>	 	-		 	
More Than 1 Year	X	X	V			 	 	-				-
Less Than 1 Year	1		-			_		 				┼
Only During Agnes				-		+		_		-		┼
Duration (If Applicable)						-		 			-	
Less Than 1 Day	X	X	V	-	 		-					
1 Day + (Enter Days)		 ~ 				-		-				
Property Damage		\vdash				-		-				
oss of Life/Vital Services		\vdash	-+			-		-				
Private	1	\vdash	-			 						
More Than One Owner	X	X	X			-						
Types of Properties	1		^									
Number of Properties			+									
Public (List Types)	-	\vdash				-						
Explanation Line No. (On Back)	 	\vdash	-									
Solutions					***************************************							
Suggested		\vdash										
explanation Line No. (On Back)		 -				\vdash						
Formally Proposed	-	 				 						
explanation Line No. (On Back)						$\vdash \vdash$						
Include Map ID No. if found or		hau f				لييا						

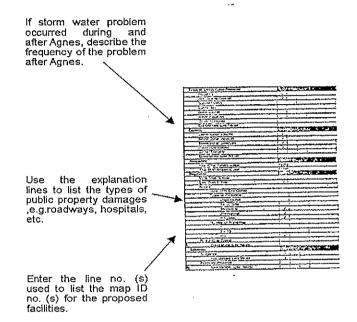
WATERSHED Name: Municipality: Adams	ION DIS	FOR	RM CO	MPLE N. R	ich A	cd5				out Fo s On			h Missiy Majariji			
Municipality: Adams County: Cambe	i'a	Telep Date:	hone:	D-10	2011	7 000	For	Coun	ty Use	e:	100101	ale di				
MAP NO. *	A-#[A42	A#3	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	٦
Types of Storm Water Problems					100											1
Flooding	V	V	V													٦
Accelerated Erosion		V,		11				T	T					T		T
Sedimentation		V	~													٦
Landslide	,		V													٦
Groundwater		V	/													٦
Water Pollution		~							-						1	7
Other (Explain)			to an					T					1			7
Explanation Line No.	3 177															7
Cause (s)	14 14.		3425-46	inte o			Paris			8 C2[XX						7
Storm Water Volume	V	V	V													7
Storm Water Velocity			V													٦
Storm Water Direction			,													7
Water Obstruction				2 .												٦
Other (Explain)									1.							٦
Explanation Line No.		1														٦
Frequency				1.45		41355	100									٦
Year Most Recent Occurred	103	03	03													٦
Year First Known Occurred	184	84	84	-												٦
Regularity		/	a series	2 (200				4				parks.	Compression of	y to the	47619	
More Than 1 Year	V	V	/													٦
Less Than 1 Year																٦
Only During Agnes																\exists
Duration (If Applicable)				NAME.			Tellia.									
Less Than 1 Day		/												7		
1 Day + (Enter Days)		~	~	-												
Property Damage										1	1					
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties													-			
Number of Properties																
Public (List Types)		/														
Explanation Line No.		/						_								\bot
Solutions			1			- 1										
Suggested	/	V														
Explanation Line No.	3	2														_
Formally Proposed																
Explanation Line No.																
* Include Map ID No. if found EXPLAINATION LINE(S) 1) #Z - ROAD Way C 2) Place water (5 3) removal of He 4)								3 / 1'15 am	inte teau	0 f	OW,	Nan ate	me C	DOE	je.	
5) 6) 7)																_

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)".Example 1, 2-3, etc.



Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences properly damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff,

Groundwater

Water in the ground below the water table:

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

EXPLANATION LINES (continued)
 ,



\triangle				FORM C - EXIST	TING FLOOD	CONTROL PRO	OJECT	SHEET	OF	
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL TYPES OF FL	OOD CONTROL PROJECTS		
		Name: Telephone: Date:			1	Channel Exca Channel Reali Rock Riprap	vation / Widening gnment	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining	
For County U	Jse:								1	
Map ID No.	Type of Flood Control Project	et	Year Constr Built	Expected Life Yrs.	Design Flo Frequency Yrs.	Discharge C.F.S.	C	Owner Name, Address, and Pho	one	
C-										
C-										
C-										
C-										
C-										
C- 1										
C-	,							,		



			•	FORM D - P	ROPOSED							OF	
WATERSHE	D	FORM CO	MPLETED	BY			TYPICAL 7	TYPES OF I	FLOOD CO	NTROL PR	OJECTS	,	
Name: Municipality: County:		Name: Telephone: Date:	5			Channel Ex Channel Rock Ripra	ealignment			Levee Gabions Pipe Chan	nel	Dams Floodwall Concrete Lining	
For County U	se:												
Map ID No.	Type of Flood Control Project	Stud YES Prelim.	ly Phase Be Final	egun N0	Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Frequency Yrs.	Flood Discharge C.F.S.	Map ID No. Form A*	Owner	Name, Address, and Phone	
D-									3				
D-	8.												
D-													
D-		ž											
D-													
D-	è												
D-													

^{*} Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

7

\Diamond		FORM E - EXISTING STORM WATER CONTROL FACILITIES		SHEET OF
WATERSHED	FORM COMPLETED BY	ETED BY	Dofinition of Storm Water Control Esciller	
Name:	Name:		Definition of storm water Control racinity A natural / man-made device or structure specifically designed and / or	ssigned and / or
Municipality:	Telephone:		utilized to reduce the rate and / or volume of storm wate	er runoff
County:	Date:		from a site or sites.	
For County Use:				
Map ID No. Type of Storm Water Control Facility	Year Built	Contact Person	Address and Phone	Comments
<u>.</u>				
10				
<u>.</u>				
ú				
ú				
<u></u>				
, i				
ú				
щ				
<u>.</u>				
<u>.</u>				
Ú				
<u>.</u>				
į.				
E-		10		
Ė				
ü				
j.				
E				
E-				
E-				
ú		20	i a	
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES Detention / Retention Basin Natural Pond or Wetland Parking Lot Pondling	.ITIES Roof-Top Storage Semi-Pervious Paving Infiltration Device (See	IES Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seepage /Recharge Basin or Underground Tank)	und Tank)	

•		FORM F - P	ROPOSED	STORM WATER CONTROL FACILITIES	SHEET OF									
WATERSHE Name: Municipality: County:	D. Kirhards Name:	D. BAX+eX one: 487-5054 7-15-05		Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.										
For County U	lse:													
Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates Start End	Map No. Form A*	Contact Person Name, Address and Phone	Comments									
F- /	Detension basins	Completed			New Developments									
F- 2	Detension basins	Fau 2005 ?			New Developments New Developments New Development									
F- 3	Detension basins	2004 Continuing			New Development									
F-		8			U U									
F-														
F-														
F-														
F-														
F-														
F-														
F-														
* Enter the s	torm water problem area's Map ID No., if the TYPIC	ne proposed project will solve AL TYPES OF STORM WATI	or reduce ar ER CONTRO	ny / all of an identified drainage problem. DL FACILITIES										
Detention / R Natural Pond				Roof-Top Storage Semi-Pervious Paving Infiltration Device (Seep	page / Recharge Basin or Underground Tank)									

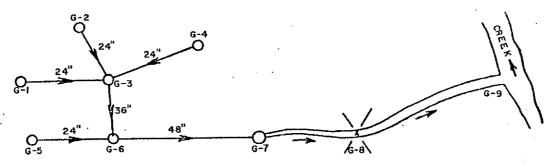
																	
					FORM G - I	EXISTING S	STORM WA	TER COLLI	ECTION SYST	EMS		SHEETOF					
WATE	RSHED		FORM CO	MPLETED	BY				INSTRUCTIO	NS							
						Diagram e	Diagram each system on the appropriate map. Establish map points to show changes in system elements,										
Name:			Name:			pipe size,	or pipe dire	ction. (If unl	known, outline	the system	extent.) Cor	nplete this form only whe	re specific				
Municip			Telephone:			information	n on constru	iction is ava	ailable. Use a s	eparate for	m for each s	ystem. Identify the points	s within a				
County	:		Date:			system co	nsecutively	(ex. G-1,G-	2,G-3). Start th	ne first point	t in each add	litional system 20 numbe	rs higher.				
			7					s one syste	m, so G-23 be	gins the ne	xt. See Sam	ple Diagrams & Form on	Reverse.				
N	lap I.D.	Sys	stem's Elemen	its (x)		Measurements *					Design		Name of Final				
	No.				Pipe		hannel / Sw		Material	Year	Data	Contact Person	Ownership and				
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Constr.	Available	Name and Phone	Maintenance Responsibility				
G-	G-																
G-	G-																
						<u> </u>											
G-	G-					ļ											
G-	G-																
G-	G-	·															
	G-																
G-	<u> </u>						<u> </u>		<u> </u>			**************************************					
G-	G-					ļ											
G-	G-																
G-	G-																
	G-	·				···											
G-	- G-		 					<u> </u>		<u> </u>							
G-	G-																
G-	G-		***************************************														
G-	G-																
<u> </u>	19-		 									**************************************					
G-	G-								<u> </u>	<u> </u>							
G-	G-																

^{*} See measurement key on reverse side.

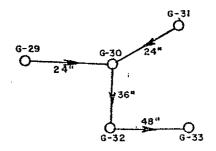
Measurement .
Key
D = Diameter

TW = Top Width

B = Bottom Width



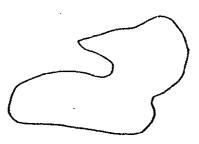
SAMPLE DIAGRAM FOR SYSTEM ONE



SAMPLE DIAGRAM FOR SYSTEM TWO

SAMPLE FORM (System One Only)

t-ret							[zi	m+1 10	Own asida	COLLECTION EVERTAL FORM 9									
کست لگرمتر	ATTRINCS FORM CONFILTED BY House Confidence Technisms Dela									Company and a later of the formation has been already from the design of the company of the formation of the									
Danie Brand Wil				p				·-	=	227	7								
		-		-	-	°				-	#		100 Andrews						
8.1	۵,	,			м.				040	1075	Yes	Jahr Day 123-4547	Servey of ASC						
C 2	G.2	,			ж.				CL#	1878	Ye.	344 Det 1734140	Personal of ARC						
64	6,	,	 	_	24"				0.0	1978	Y#	Jahrs Comp 1234947	Surouph of ASC						
62	6.0		1	-					0.0	1,74	Y=	Julin Com 123-4887	Bursuph of ASC						
4		,	 	-	,	-		_	200	1070	Yes	Jahrs (125-2587	tempt of ARC						
G.	- A	-	├──	-	-		一	-	ص	1815	Yes	Jahn Dyo 1234547	tong of ARC						
<u></u>	- C4	-	 	 	一	er"	*	и.	Cores	1962	Y=	Julin Daw 173-4567 .	Seconds of ASC						
69	0,0		 	,	\vdash	41 -	*	M.	Name of	.			Leongh of ARC						
	-	\vdash	-	1	-	_	 	 		_	t								
	 	⊢	╂	├	╁─	├	├	├		-	 	T	1						
4	ļ <u>.</u>	丄		<u> </u>	ļ	<u> </u>	ļ	<u> </u>	├	- i	 	 	<u> </u>						
4	10	1	i	ì	l l	1	I .	I .	1	i	1	1							



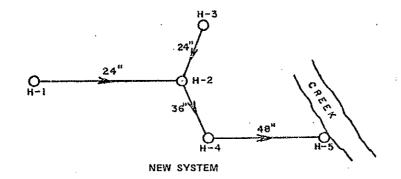
Outline known areas where construction exists but construction data is unavailable.

•					FORM H - F	PROPOSED	STORM W								
WATER	RSHED		FORM COM	MPLETED I	BY				INSTRUCTION	ONS					
						On the map for pr	oposed storm wate	r collection systems	s, diagram each propos	sed system. Indicate	a map point	to show cha	nges in system e	elements, pipe size, pipe direction an	d connections
Name:			Name:			to existing system	s. For proposed ad	ditions to existing s	ystems, diagram only t	he additions and the	ir connection	point into th	e existing system	n. Complete a separate form for eac	h proposed,
Municip	ality:		Name: Telephone:			new system and o	one for each existing	g system having on	e or more proposed ad	ditions Identify the p	points within	a system cor	nsecutively (ex. F	H-1, H-2, H-3). Start the first point in	each
County:	ality:		Date:			additional system	20 numbers higher	(if H-3 ends one sy	stem, begin the next w	ith H-23). Be sure t	o show the p	oint where p	roposed addition	s connect into existing systems, using	ng the map
								n form and map. Se	e Sample Diagrams a						
		tem's Element	em's Elements (x)			Measurements *			Map I.D.	Proposed		Design	Contact Person	Name of Final	
	No.					Pipe Open Channe			Material	Nos.**	Const. Dates		Data	Name and	Ownership and
From	То	Pipe	Open Channel	Swale	D	TW	В	Depth		Form A	Start	End	Avail,	Phone	Maintenance Responsibility
H-	H-														
H-	H-														
H-	H-														
													-		
H-	H-					 					 				
H-	H-					<u> </u>									
H-	H-														
H-	H-														
H-	H-	******													
1 1"	11"					 					1				
H	H-						ļ			_	ļ				
H-	H-														
H-	H-														
					:										
H-	H-										<u> </u>				
H-	H		<u> </u>			 	<u> </u>				 				<u> </u>
H-	H-														
H-	H-		;	:											

^{*} See measurement key on reverse side. ** Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

Measurement Key

D = Diameter
TW = Top Width
β = Bottom Width



SAMPLE FORM (New System Only)

72								PROPOSE	# 110AM	MATTA COLLEC	1104 175	ten re	***		3411 54		
					Т.		WLETE							(adjust lord			
	R141[0																
-																	
بابلىيك	pality _																
-					D-W					have the paint of the paint community for, its, its, its, its, its, and its paints become personal part of the paints of the pai							
PortA Specific Commo Life					**************************************					10.	- Pres		<u>=</u>	5 Pres			
-					~~		- 0			~ = .	843		=	Name and Provide	Manager Paris		
~~.	Te					_17	1							1			
*.	#2	,			24"				cur.	A-1	1982	1963	Ya_	72)-1417 منظر عجيز	Swamp of ASC		
.,	*2	,			24-				0.0	At	1962	1983	7	300 Dec 177-4647	Baraugh of ARC		
#2	H4	,	•		29-	┢┈		ļ		A-1	1987	1943	Yes	Julian Day 125-4567	Server of ABC		
_						一	-			A1	1963	1092	Yes	Jana Day 122-1987	Bernigh of ABC		
H4	**	<u> '</u>		ļ		 	 		<u> </u>		 	1	 				
14	*	<u> </u>		<u> </u>	<u> </u>	_		L			<u> </u>	<u> </u>	 	<u> </u>			
н.	#		l				L		<u>_</u>		L	<u> </u>					
14	*	Γ									<u> </u>		L				
ж	*	Τ															
*	-	 			1	Г	Т		1		Ī	1					
*	- -	-	 	 	╂┈─	├-	\vdash	 	┼	\dashv	†	†	 	1			
14.		<u></u>		<u>L</u>	<u></u> _	<u> </u>	L.	<u> </u>	<u></u>		<u> </u>	<u></u>	<u>L</u>		<u> </u>		
75-4					D. 1944.	•	-	*** *** **									

END OF EXISTING SYSTEM

ADDITION TO EXISTING SYSTEM

NA

WATERS Name: Municipal County:	lity:	FORM I - PRESENT FORM COMPLETE Name: Telephone: Date:	& PROJECTED DEVELOPMENT IN THE FLOOD HAZARD AREA SHEET OF									
For Coun	ty Use:											
Map ID No.	TYPE OF DEVELO	OPMENT	Year Built		Contact Person Name, Address and Phone		Comments					
1-												
1-												
1 -												
1 -												
1-												
1-												
1-												
Ι-												
1 -												

NJA

		/	Y //	<u> </u>										
→	FORM	J - WA	TER QU					SHEE	Γ	OF	-			
WATERSHED				FORM COMPLETED BY										
Name:			Name:											
Municipality:				Telephone:										
County:	Date:													
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-		
Types of Water Quality Problems		T	T											
High Community Tolerence						1	1							
High Temperature	1			1	1	1	1	1			1			
High Turbidity	1			1					1					
Hydrocarbon Pollution	1			1								1		
Low Community Diversity	1		1	1								l		
Low Dissolved Oxygen	1		1	1			1		1					
Low pH	1		1	1							1			
Nutrient Enrichment	1		1	1										
Poor Habitat				1						1				
Other/Explanation Line No.	1						1	1						
Potential Cause(s)		1					\vdash	1						
Agriculture	1						1	1	†	 				
Construction Site							1							
Erosion	1		1				1			1				
Lake Discharge														
STP Outfall						1		1						
Other/Explanation Line No.														
Frequency	1		1						<u> </u>					
Year Most Recent Occurence		1												
Year First Known Occurence														
Source of Information			1											
BWA Streamwatch	T	T												
County Water Quality Study	1		1											
Driveby	1		1	1										
UCCD Complaint Investigation	1		1											
	1		i											
Other/Explanation Line No.														
	EXPL	ANAT	ION LI	NES										
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														