

CHAPTER 3

## EXISTING STORM DRAINAGE PROBLEMS AND HYDRAULIC OBSTRUCTIONS

### *Existing Drainage Problems*

Existing drainage problems in the Combined Watershed include the flooding of residential streets, township routes, state routes, residential properties, and commercial properties. The Lead Agency obtained this information from the local municipalities via questionnaires and other letters of request. Table 3-1 is an inventory of the existing storm drainage and flooding problems in the Combined Watershed.

**Table 3-1  
Inventory of Existing Drainage Problems in the  
Fishing Creek/Cedar Run Watershed**

Sub-Area	Identifier	Calculated Capacity	Comments	Preliminary Recommended Solutions
FC12	T6-1 * Greene Twp	848	Property flooding SR2002	
FC12-14 (border)	T3-22 * Greene Twp	6376	Roadway and property flooding T352 (Stover Rd)	
FC17, 18	T3-11, T3-8 Greene Twp	18, 194	Roadway and property flooding T415 (Hopple Hollow)	
FC62-63 (border)	T5-7 * Walker Twp	950	Roadway and property flooding T467 at Little Fishing Creek Bridge	
FC75	T5-5 Walker Twp	21	Soil erosion and sedimentation T467 (McClain, Rodgers Rd) at the Roaring Run Bridge	

\* Designates a significant obstruction

**Table 3-1 (cont.)  
Inventory of Existing Storm Drainage Problems in the  
Fishing Creek/Cedar Run Watershed**

Sub-Area	Identifier	Calculated Capacity	Comments	Preliminary Recommended Solutions
FC77	T1-32 Porter Twp	5509	Sedimentation SR0064 east of T468	
FC77	T1-34 * Porter Twp	4917	Property flooding SR0064 left branch of Fishing Creek too much flow for stream crossing	
FC79	T2-62 * Porter Twp	1289	Roadway and property flooding SR2004 between Mackeyville and Clintondale	
FC79	T2-62 * Porter Twp	1289	Roadway and property flooding SR2004 between Mackeyville and Clintondale	
FC80	T2-64 * Porter Twp	19399	Roadway and property flooding SR2004 between Mackeyville and Clintondale	
FC83	T2-66 Porter Twp	4075	Roadway and property flooding T328 & SR2004 at Walizer Brdg.	
FC111	T2-23 Lamar Twp	21	Flooding Bob Quiggle property	

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- Designates a significant obstruction

**Table 3-1 (Cont.)  
Inventory of Existing Storm Drainage Problems in the  
Fishing Creek/Cedar Run Watershed**

Sub-Area	Identifier	Calculated Capacity	Comments	Preliminary Recommended Solutions
FC112	T2-32 Lamar Twp	5	Roadway and property flooding and soil erosion East end of T353	
FC114	T2-15 Lamar Twp	288	Roadway and property flooding SR 477 across from Karstetter's Welding	
FC118	T2-6 * Mill Hall Boro	11336	Roadway and property flooding Church Street Hse #600-#622	
FC118	T2-84 Lamar Twp	8806	Property flooding SR 477 Confer's Gas	

## ***Survey of Significant Obstructions***

Obstructions along channels limit flow capacity and can potentially cause significant ponding or diversion of water. The Lead Agency identified one hundred three (103) significant hydraulic obstructions within the Combined Watershed. These obstructions were determined “significant” based on the following distinction:

An obstruction in a stream or channel shall be deemed “significant” if it has an estimated flow capacity which is less than the 10-year return period peak flow from the calibrated hydrologic model of a watershed prepared as part of the Act 167 Plan.

Table 3-2 lists the significant obstructions and their structure sizes and hydraulic capacities (bank full).

**Table 3-2  
Inventory of Significant Hydraulic Obstructions in the  
Fishing Creek/Cedar Run Watershed**

Identifier	Sub-area	Calculated Capacity	Pipe Size	Description
T4-24	FC1	385	72"	Breon Road
T4-25	FC2	5	16"	SR 2002
T4-27, 28	FC2	1550, 1464	18x8, 17x8	SR 0080
T4-12	FC3	624	11x6	Sugar Valley Narrows Road
T4-17	FC3	129	53"	Sugar Valley Narrows Road
T4-13	FC4	133	54"	Sugar Valley Narrows Road
T4-18	FC5	107	54"	Breon Road
T4-11	FC7	56	42"	Fourth Gap Road
T4-18	FC8	107	54"	I-80
T4-1	FC10	3217	45x7	Winter Rd - Summer Road connection

**Table 3-2 (cont.)  
Inventory of Significant Hydraulic Obstructions in the  
Fishing Creek/Cedar Run Watershed**

Identifier	Sub-area	Calculated Capacity	Pipe Size	Description
NONE	FC11			Sinkhole - @ Eastville
T3-22	FC12	6376	36x13	Connect Rd 13,000 feet East of 477 (Stover Rd)
NONE	FC13			Sinkhole -
T3-25	FC14	1594	22.3x7	Private Drive
T3-27	FC15	1584	19.4x7.7	Private Drive
T3-10	FC17	106	50"	Hopple Hollow Road
T3-18	FC18	1304	124"	Rte 477
T3-29	FC19	6536	48.4x11	Rte 477
NONE	FC20			Sinkhole - East of Sugar Grove School
T3-30	FC21	1072	3 - 6.7'	T351
T3-34	FC22	3015	35x8	SR 2009
NONE	FC23			Sinkhole - Bull Run Gap
T3-33	FC24	54	36"	SR 2009
NONE	FC25			Sink - Green Burr Gap
NONE	FC26			Sinkhole - Wolfs Gap
T2-78	FC27	50557	23x10.3	SR 2007-Logan Mills
NONE	FC28			Sink Schrekengast Gap
T6-7	FC29	18365	136x11	Rte 880
NONE	FC30			Sinkhole Spangler Gap

**Table 3-2 (cont.)  
Inventory of Significant Hydraulic Obstructions in the  
Fishing Creek/Cedar Run Watershed**

Identifier	Sub-area	Calculated Capacity	Pipe Size	Description
T6-5	FC31	3144	38x8	Summer Road
NONE	FC32			Sinkhole Colvey Gap
T6-3	FC33	5744	49x10	SR 2002
T6-2	FC35	105	48"	Bear Run (SR 2002)
T6-1	FC40	848	19x5	SR 2002
T5-1	FC41	8728	74x10	SR 2002
T1-35	FC43	6097	25.8'x 7.2'	LR 18041 Hatchery below Sink
T4A-6	FC45	1421	23x6.3	34000' east of 0144
T4A-5	FC46	625	15.1x4.7	Private Drive
T4A-11	FC47	105	48"	T461
T4A-3	FC48	193	5.8x4	T470
T4A-2	FC50	1043	15.5x6.7	Private Drive
T4A-1	FC51	527	19.6x3.4	Private Drive
T5-17	FC54	316	10.9x3.6	Private Drive
T5-22	FC55	473	13x4	T695
T5-13	FC56	436	14.5x3.7	Private Drive
T5-11	FC58	4540	56x8	Rte 64
T5-8	FC61	5767	61x8	Rte 64
T5-7	FC62	950	21x5	T467
T5-3	FC63	21	24"	SR 0064

**Table 3-2 (cont.)  
Inventory of Significant Hydraulic Obstructions in the  
Fishing Creek/Cedar Run Watershed**

Identifier	Sub-area	Calculated Capacity	Pipe Size	Description
T5-1	FC64	8728	74x10	SR 2002
T1-41	FC65	1014	25.8'x 4.52'	Private Drive
NONE	FC74			Sinkhole
T1-40	FC75	3177	27.8x 9.78	Rte 64
T1-33	FC76	4501	48'x8.5'	Private Drive
T1-34	FC77	4917	42.9'x 9.8'	SR 0064 @ Clintondale
T1-30	FC77	11132	100x9.6	SR 0064
T2-62	FC79	1289	42x9	Rte 120
T2-64	FC80	19399	42x12	Rte 120
T2-65	FC81	4075	57x7	Rte 120
T2-69	FC82	58	7.9x2.6	Mackeyville Road
T2-51	FC83	24060	59x15	LR 18030
T2-48	FC84	2939	36x8	Rte 120
T2-44	FC85	1131	14.8x9.8	I-80
T2-45	FC86	25	4.5x3	Mackeyville Rote Rd LR 18030
T2-47	FC87	612	12.5x5.3	T358
T2-85,90	FC88	15137	69x9.5	Rte120 Cedar Springs
T1-17	FC91	285	15'x2.6	LR 18008
T1-15	FC92	54	42"	LR 18008
T1-12	FC93	314	60" & 54"	T321

**Table 3-2 (cont.)  
Inventory of Significant Hydraulic Obstructions in the  
Fishing Creek/Cedar Run Watershed**

Identifier	Sub-area	Calculated Capacity	Pipe Size	Description
T1-5	FC97	522	14.2'x 4.3'	SR 2018 above Pavin
T1-3	FC98	1511	38.8x4.5	T321 @ Pavin
T1-2	FC99	3879	77.6x5.4	SR 2018
T3-14	FC101	88	4.7x3.2	Cherry Run Road
T3-7E	FC102	2148	161"	I-80
T3-7	FC103	2316	166"	I-80
T3-3	FC104	1136	20.6x5.8	Mt. Riansares Road
T3-39	FC105	907	15x6.2	Mt. Riansares Road
T3-1	FC106	1010	16x6	Rte 477
T2-40	FC107	364	6x6	I-80
T2-37	FC108	2431	34x7	Private Drive Just above Sinkhole
T2-28	FC109	88	40"	T357 Int Nittany Rd
T2-31C	FC110	196	52"	T364
T2-21	FC112	288	17x3	T364
T2-33	FC113	1594	35x5	Rte 477
T2-14	FC114	288	11x3.5	Rte 477 below Lamar School (Chub Run)

**Table 3-2 (cont.)  
Inventory of Significant Hydraulic Obstructions in the  
Fishing Creek/Cedar Run Watershed**

Identifier	Sub-area	Calculated Capacity	Pipe Size	Comments
T2-10	FC115	1436	28'x5.5	Salona Stone Quarry
T2-12	FC115	1820	36x5.5	Rte 477 @ Salona
T2-8	FC116	222	66"	Rte 220
T2-9	FC117	341	8x5	Rte 64
T2-1,2,3,4, 5,6,7	FC118	4310, 15073, 21819	82x5.5	3 @ Rte 220