DESIGN REPORT
Attachment A
Stillwater Creek Watershed
Site No. 33-C

PLANNED - DESIGN COMPARISON

	ITEM	UNIT	PLANNED 1960	DESIGNED 2005
				* (indicates no change)
1.	CLASS OF STRUCTURE		a	a
2.	DRAINAGE AREA	Sq.Mi.	9.01	*
3.	STORAGE CAPACITY:			
	Sediment	AcFt.	447	*
	Sediment (Aerated)	AcFt	72	*
	Retarding	AcFt	2100	2081
	TOTAL	AcFt	2619	2600
4.	SURFACE AREA			
	Normal Pool	Acre	95	*
	Beneficial	Acre	—	—
	Retarding Pool	Acre	310	*
5.	VOLUME OF FILL	C.Y.	111,200	115,500
6.	MAXIMUM HEIGHT OF DAM	FT.	33	34.1
7.	ELEVATIONS:			
	Top of Dam	Ft.	983.0	984.1
	Aux.Spwy. Crest	Ft.	980.0	*
	Prin.Spwy. Crest	Ft.	—	968.6
8.	PRINCIPAL SPILLWAY			
	Conduit Size	In.	30	36
	Capacity (at. E.S. Crest)	CFS	90	153
9.	AUXILIARY SPILLWAY			
	Bottom Width	Ft.	344	250
	Type		veg.	veg
10.	HYDROLOGY (Prin.spwy) (P25+P50)/2			
	Rainfall (1 day)	In.	—	6.9
	Rainfall (10 day)	In.	—	11.3
	Minimum Storage (TR-60)	AcFt	—	1991
11.	HYDROLOGY (Aux.Spwy)			
	Rainfall 6hour duration	In.	5.86	7.52
	Runoff	In.	3.66	5.18
	Discharge	CFS	--	250
	HP	Ft.	--	.84
	Velocity	FPS	--	2.3
12.	HYDROLOGY (Freeboard)			
	Rainfall 6hour duration	In.	11.46	11.98
	Runoff	In.	8.93	9.43
	Discharge	CFS	4330	3950
	HP	Ft.	3.0	4.06