

NAME OF DAM: Saw Mill Pond Dam

STATE ID #: 3-14-45-1

INSPECTION DATE: July 20, 2010

NID ID #: MA00098

INSTRUMENTATION

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
INSTR.	1. PIEZOMETERS	None observed			
	2. OBSERVATION WELLS	None observed			
	3. STAFF GAGE AND RECORDER	None observed			
	4. WEIRS	None observed			
	5. INCLINOMETERS	None observed			
	6. SURVEY MONUMENTS	None observed			
	7. DRAINS	None observed			
	8. FREQUENCY OF READINGS	None observed			
	9. LOCATION OF READINGS	None observed			

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DOWNSTREAM MASONRY WALLS

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
D/S WALLS	1. WALL TYPE	Stone masonry			
	2. WALL ALIGNMENT	Poor - wall is leaning away from channel (into embankment) due to cracks in masonry			x
	3. WALL CONDITION	Poor - large cracks and voids in wall; missing stones at the base of wall			x
	4. HEIGHT: TOP OF WALL TO MUDLINE	min: 8.25 max: 9 avg: 8.75	x		
	5. SEEPAGE OR LEAKAGE	None observed	x		
	6. ABUTMENT CONTACT	NA	x		
	7. EROSION/SINKHOLES BEHIND WALL	None observed	x		
	8. ANIMAL BURROWS	None observed	x		
	9. UNUSUAL MOVEMENT	See comment under "Wall Alignment" on this sheet	x		
	10. WET AREAS AT TOE OF WALL	NA - d/s channel along toe of wall	x		

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UPSTREAM MASONRY WALLS

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
U/S WALLS	1. WALL TYPE	Stone masonry	x		
	2. WALL ALIGNMENT	Bulge in wall to left of spillway		x	
	3. WALL CONDITION	Fair - small woody vegetation growing from cracks in walls		x	
	4. HEIGHT: TOP OF WALL TO MUDLINE	min: 4' max: 5.5' avg: 5'	x		
	5. ABUTMENT CONTACT	Fair	x		
	6. EROSION/SINKHOLES BEHIND WALL	Two sinkholes near guardrail posts to left of spillway.			x
	7. ANIMAL BURROWS	None observed		x	
	8. UNUSUAL MOVEMENT	See comment under "Wall Alignment" on this sheet			x

ADDITIONAL COMMENTS: Larger sinkhole observed beneath woody vegetation upstream right of spillway. Could be due to collapse of CMP below.

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DOWNSTREAM AREA

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
D/S AREA	1. ABUTMENT LEAKAGE	None observed	x		
	2. FOUNDATION SEEPAGE	None observed	x		
	3. SLIDE, SLOUGH, SCARP	None observed	x		
	4. WEIRS	None observed	x		
	5. DRAINAGE SYSTEM	None observed	x		
	6. INSTRUMENTATION	None observed	x		
	7. VEGETATION	Dense vegetaion and large trees			x
	8. ACCESSIBILITY	Poor - due to dense vegetation			x
9. DOWNSTREAM HAZARD DESCRIPTION	Trout Brook flows into to large floodplain approx. 0.1 miles d/s of dam. Minimal residential development near brook or floodplain.				
10. DATE OF LAST EAP UPDATE	None				

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MISCELLANEOUS

AREA INSPECTED	CONDITION	OBSERVATIONS
MISC.	1. RESERVOIR DEPTH (AVG)	2' - 3' (estimated)
	2. RESERVOIR SHORELINE	Fields and wooded areas
	3. RESERVOIR SLOPES	Mild slopes
	4. ACCESS ROADS	Access is via Lake Road on crest of dam
	5. SECURITY DEVICES	None observed
	6. VANDALISM OR TRESPASS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO WHAT:
	7. AVAILABILITY OF PLANS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DATE:
	8. AVAILABILITY OF DESIGN CALCS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DATE:
	9. AVAILABILITY OF EAP/LAST UPDATE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DATE: None
	10. AVAILABILITY OF O&M MANUAL	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO DATE: None
	11. CARETAKER/OWNER AVAILABLE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO DATE: August 9, 2010
	12. CONFINED SPACE ENTRY REQUIRED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PURPOSE: None

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PRIMARY SPILLWAY

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
SPILLWAY	SPILLWAY TYPE	Concrete overflow	x		
	WEIR TYPE	Ogee	x		
	SPILLWAY CONDITION	Good condition - some spalling on face of spillway		x	
	TRAINING WALLS	Fair condition - concrete with some cracking / spalling		x	
	SPILLWAY CONTROLS AND CONDITION	None observed	x		
	UNUSUAL MOVEMENT	None observed	x		
	APPROACH AREA	Some small debris along spillway crest			x
	DISCHARGE AREA	Concrete apron under bridge crossing	x		
	DEBRIS	Some small debris at crest of spillway and in d/s channel		x	
	WATER LEVEL AT TIME OF INSPECTION	Approx. 0.5 inches above spillway crest	x		

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AUXILIARY SPILLWAY

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
SPILLWAY	SPILLWAY TYPE	NA			
	WEIR TYPE	NA			
	SPILLWAY CONDITION	NA			
	TRAINING WALLS	NA			
	SPILLWAY CONTROLS AND CONDITION	NA			
	UNUSUAL MOVEMENT	NA			
	APPROACH AREA	NA			
	DISCHARGE AREA	NA			
	DEBRIS	NA			
	WATER LEVEL AT TIME OF INSPECTION	NA			

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OUTLET WORKS

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
OUTLET WORKS	TYPE	24" low-level outlet			X
	INTAKE STRUCTURE	Could not be observed (submerged by impoundment or missing)			X
	TRASHRACK	None observed			X
	PRIMARY CLOSURE	None observed	X		
	SECONDARY CLOSURE	None observed	X		
	CONDUIT	CMP - deteriorated; holes in pipe near d/s face of spillway			X
	OUTLET STRUCTURE/HEADWALL	No headwall, pipe installed through concrete ogee spillway	X		
	EROSION ALONG TOE OF DAM	NA	X		
	SEEPAGE/LEAKAGE	Could not be observed due to flow in d/s channel		X	
	DEBRIS/BLOCKAGE	None observed	X		
	UNUSUAL MOVEMENT	None observed	X		
	DOWNSTREAM AREA	Discharges to concrete apron d/s of spillway	X		
	MISCELLANEOUS				

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CONCRETE/MASONRY DAMS

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
GENERAL	TYPE	NA			
	AVAILABILITY OF PLANS	NA			
	AVAILABILITY OF DESIGN CALCS	NA			
	PIEZOMETERS	NA			
	OBSERVATION WELLS	NA			
	INCLINOMETERS	NA			
	SEEPAGE GALLERY	NA			
	UNUSUAL MOVEMENT	NA			

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CONCRETE/MASONRY DAMS (CREST)

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
CREST	TYPE	NA			
	SURFACE CONDITIONS	NA			
	CONDITIONS OF JOINTS	NA			
	UNUSUAL MOVEMENT	NA			
	HORIZONTAL ALIGNMENT	NA			
	VERTICAL ALIGNMENT	NA			

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CONCRETE/MASONRY DAMS (DOWNSTREAM FACE)

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
D/S FACE	TYPE	NA			
	SURFACE CONDITIONS	NA			
	CONDITIONS OF JOINTS	NA			
	UNUSUAL MOVEMENT	NA			
	ABUTMENT CONTACT	NA			
	LEAKAGE	NA			

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CONCRETE/MASONRY DAMS (UPSTREAM FACE)

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
U/S FACE	TYPE	NA			
	SURFACE CONDITIONS	NA			
	CONDITIONS OF JOINTS	NA			
	UNUSUAL MOVEMENT	NA			
	ABUTMENT CONTACTS	NA			

ADDITIONAL COMMENTS: _____



APPENDIX C

Previous Reports and References



PREVIOUS REPORTS AND REFERENCES

The following is a list of reports that were located during the file review, or were referenced in previous reports.

1. Jurisdictional Inspection and Report, July 30, 2007, performed by Tighe & Bond.
2. Dam Safety Order for a Phase I Inspection, April 2, 2008, sent by MADCR
3. Dam Safety Order for a Phase I Inspection, May 19, 2010, sent By MADCR.

The following references were utilized during the preparation of this report and the development of the recommendations presented herein.

1. "Estimating Peak Discharges of Small, Rural Streams in Massachusetts" (Water Supply Paper 2214), U.S. Geological Survey, Alexandria, VA, 1983.
2. "Recommended Guidelines for Safety Inspection of Dams" (ER 1110-2-106 – National Program of Inspection of Dams, Volume I, Appendix D), U.S. Army Corps of Engineers, Washington, DC, 1976.



APPENDIX D

Definitions