

WATER CONTROL MANUAL
LOPEZ DAM

EXHIBIT B
PERTINENT DATA FOR OTHER
RESERVOIRS AFFECTING LOS ANGELES RIVER

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PERTINENT DATA FOR OTHER
RESERVOIRS AFFECTING LOS ANGELES RIVER

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SEPULVEDA DAM AND RESERVOIR
LOS ANGELES COUNTY, CALIFORNIA

PERTINENT DATA
May 1985

Stream system.....	Los Angeles River
Drainage area.....sq. miles..	152
Reservoir:	
Elevation	
Top of spillway gates (in raised position)..ft., NGVD..	710
Flood control pool.....ft., NGVD..	713.5
Spillway design surcharge level.....ft., NGVD..	716.7
Top of dam.....ft., NGVD..	725+
Spillway gates basin to automatically lower.ft., NGVD..	712.0
Spillway gates complete automatic lowering..ft., NGVD..	715.0
Area	
Spillway gates (in raised position).....acres..	1,335
Flood control pool.....acres..	1,529
Spillway crest.....acres..	765
Spillway design surcharge level.....acres..	1,710
Top of dam.....acres..	2,447
Capacity, gross	
Spillway gates (in raised position).....acre-feet..	17,425 (2.15*)
Flood control pool.....acre-feet..	22,493 (2.77*)
Spillway crest.....acre-feet..	6,857 (0.85*)
Spillway design surcharge level.....acre-feet..	27,563 (3.40*)
Top of dam	44,727 (5.52*)
Allowance for sediment (50-year).....acre-feet..	0
Dam:	
Type.....	Earthfill
Height above original streambed.....ft..	57
Top length.....ft..	15,440
Top width.....ft..	30
Freeboard.....ft..	7.4
Spillway:	
Type.....	Concrete ogee
Crest length.....ft..	399
Crest elevation.....ft., NGVD..	700
Design surcharge.....ft..	17.6
Design discharge.....c.f.s..	108,900
Outlets:	
Uncontrolled	
Size.....	4 - 6'W x 6.5'H
Entrance invert elevation.....ft., NGVD..	668
Controlled.....number...	4
Size.....ft...	6'W x 9'H
Gate type.....	Vertical lift
Entrance invert elevation.....ft., NGVD..	668

SEPULVEDA DAM AND RESERVOIR
LOS ANGELES COUNTY, CALIFORNIA

PERTINENT DATA (continued)
May 1985

Conduits - (Rectangular)	Number and Size
Ungated.....	4 - 6'W x 6.5'H
Gated.....	4 - 6'W x 9'H
Length.....ft..	40
Maximum capacity at spillway crest.....c.f.s..	16,500
Regulated capacity at spillway crest.....c.f.s..	16,500
Standard project flood:	
Duration (inflow).....days..	3
Total volume (including base flow).....acre-feet..	68,200 (8.41*)
Inflow peak.....c.f.s..	50,000
Probable maximum flood:	
Duration (inflow).....days..	4
Total volume.....acre-feet..	163,200 (20.13*)
Inflow peak.....c.f.s..	114,000
Historic maximums:	
Maximum inflow.....c.f.s..	58,970
Date.....	2-16-80
Maximum release.....c.f.s..	15,100
Date.....	2-16-80
Maximum water surface elevation.....ft., NGVD..	705.1
Date.....	2-16-80

* inches of runoff

+ December 1980 survey shows variation in elevation of top of dam from 723.7 feet northeast of Control House to 725.5 feet southwest of Control House.

HANSEN DAM AND RESERVOIR
LOS ANGELES COUNTY, CALIFORNIA

PERTINENT DATA
June 1984

Stream system.....	Tujunga Wash
Drainage area.....sq. miles...	147.4
Reservoir:	
Elevation	
Debris pool.....ft., NGVD...	1,010.5
Flood control pool (spillway crest).....ft., NGVD...	1,060
Spillway design surcharge level.....ft., NGVD...	1,081.22
Top of dam.....ft., NGVD...	1,087
Area	
Debris pool.....acres...	142.4
Spillway crest.....acres...	781.4
Spillway design surcharge level.....acres...	1,061.5
Top of dam.....acres...	1,136.0
Capacity, gross	
Debris pool.....acre-feet...	1,329 (0.17*)
Spillway crest.....acre-feet...	25,446.1 (3.24*)
Spillway design surcharge level.....acre-feet...	44,990 (5.72*)
Top of dam.....acre-feet...	51,360 (6.53*)
Allowance for sediment (50-year).....acre-feet...	10,500 (1.34*)
Allowance for sediment (100-year).....acre-feet...	21,000 (2.67*)
Dam:	
Type.....	Earthfill
Height above original streambed.....ft...	97
Top length.....ft...	10,475
Top width.....ft...	30
Freeboard.....ft...	5.8
Spillway:.....	Overflow conc
Type.....	Ungated ogee
Crest length.....ft...	284
Design surcharge.....ft...	21.22
Design discharge.....c.f.s...	99,700
Outlets:	
Uncontrolled	
Number and size.....ft...	2 - 8'W x 6'H
Entrance invert elevation.....ft., NGVD...	1,011
Controlled	
Gate type.....	Vertical lift
Size.....ft...	8 - 5'W x 8'H
Entrance invert elevation.....ft., NGVD...	990
Conduits.....number...	10
Size.....	2 - 8'W x 6'H
	8 - 5'W x 8'H
Length.....ft...	265
Maximum capacity at spillway crest.....c.f.s...	22,000
Regulated capacity at spillway crest.....c.f.s...	22,000

HANSEN DAM AND RESERVOIR
 LOS ANGELES COUNTY, CALIFORNIA

PERTINENT DATA (continued)
 June 1984

Standard project flood:		
Duration (inflow).....days..		4
Total volume.....acre-feet..	92,500 (11.77*)	
Inflow peak.....c.f.s..		53,000
Probable maximum flood:		
Duration (inflow).....days..		1
Total volume.....acre-feet..	76,800 (9.77*)	
Inflow peak.....c.f.s..		130,000
Historic maximums:		
Maximum release.....c.f.s..		12,371
Date.....		3-3-83
Maximum water surface elevation.....ft., NGVD..		1,039.70
Date.....		3-2-83

* inches of runoff