

Texas Dam Safety Program, MC 174
Field Operations Support Division, Office of Compliance and Enforcement
Texas Commission on Environmental Quality
P.O. Box 13087
Austin, TX 78711

Attachment D
Page 1

INFORMATION SHEET: PROPOSED NEW CONSTRUCTION, MODIFICATION, REPAIR, ALTERATION, OR REMOVAL OF A DAM

(PLEASE PRINT OR TYPE)

Reference 30 Texas Administrative Code, Chapter 299, Dams and Reservoirs

PLEASE CHECK ONE:	New □ Mod	lification □ Repair x Removal □ Alteration
SECTION 1: OWNER INFORMATION		
		Title
Organization City of San Marcos		
I have authorized the subplittal of the Anal con-	struction plans a	and specifications to the TCEQ Dam Safety Program according to
30 TAC Chapter 299.		05/03/2016 (Date)
Owner's Address 630 E Hopkins Street	of Owner)	(Date)
		Zip Code 78666
Phone Number (512) 393-8100		Emergency Contact Phone ()
		er@sanmarcostx.gov
Owner Code (Please check one): Federal (F)	XLocal Gover	rnment (L) Utility (U) Private (P) State (S)
☐ Settling Ponds ☐ Tailings ☐ V	ire Control Municipal Waste Disposal	☐ Fish ☐ Hydroelectric ☐ Industrial ☐ Pollution Control ☐ Recreation ☐ Stock Water ☐ Other, please specify: ☐
Project Engineer Wayne Stancill		Texas P.E. License Number WY PE 15287 Zip Code 57501
Engineering Firm Address 420 S. Garfield	Ave Ste 400	
City Pierre	State SD	Zip Code 57501
Phone (605) 224-8693	Fax (5
E-mail wayne_stancill@fws.gov		
SECTION 2: GENERAL INFORMATION Name of Dam Cape's Dam		
Other Name(s) of Dam Thompson Island D	am	
Reservoir Name N/A		
Location San Marcos, TX	Latitude 29.	.8728 Longitude97.9318
County_Hays		
River Basin Guadalupe	Topographic M	fap No. N/A
Distance and Direction from Nearest City or To	own In San	4Marcos, IX
TX Number NA	Water Rights N	Sumber 11/4 hone

Attachment D Page 2

Summary of Comments on Signed TCEQ Information highlighted-omissions-and-errors.pdf

Page:	1
raue.	

Number: 1 Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM
•		
Number: 2 Author: kelley		Date: 9/17/2016 5:26:13 PM
Project Engineer : Why is no Te	exas-based Public Engi	neer available or willing to sign this statutorily-required information?
Number: 3 Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM
,		
Number: 4 Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM
,		
Number: 5 Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM
,		
Number: 6 Author: kelley	Subject: Sticky Note	Date: 9/17/2016 5:24:48 PM
		rmation listed as "N/A"? The correct answer is USGS Quad ID: o29097g8, USGS Quad Name: San
Marcos South. NOTE: The Top	o Map Name is includ	led & correctly described in TPWD's Sand & Gravel Permit.
Number: 7 Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM
-		
Number: 8 Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM
Number: 8 Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM

Page 3	
SECTION 3: INFORMATION ON DAM SECTION 3: INFORMATION ON DAM Sec 3: Info on Dam Why no studies available for I	
Classification people at Risk?	
Size Classification: Large Medium Small	
Hazard Classification: High Significant Low	
Number of People at Risk N/A Study Year N/A	
Type of Dam: ☑ Concrete ☐ Gravity ☐ Earthfill ☑ Rockfill ☐ Masonry ☐ Other (specify)	
Dam Structure (dimensions to nearest tenth of foot, volume to nearest acre-foot or cubic yard, areas to nearest	acro).
Spillway Height 3.7 ft (natural surface of around to bottom of an around it is	
Emberlyment Usike 37 5 ft 4 cm Fl / c c	rune)
Structural Height 3.7 8.7 ft structural Height 105 168 ft structural Heigh	
Length of Dam 105 168 ft 1 Length of Dam N/A 5 ft 9	. —11
Test width	ft 554' above SL 14
	554' above SL 16
Embankment Volume N/A 328 cu yd 18 17	
Maximum Impoundment Capacity 3 57.4 ac-ft ac-ft (at top of dam) Why are these value when anyone can re-	
Normal Persons in Co. : NI/A est 40 ac-ft 200-300 cfs	neasure them:
Reservoir Surface Area 0.5 3.2 acres acres (at normal or conservation pool)	
Outlet Incorrect figures	
Outlet Diameter: N/A in in in the (check one)	
Type: N/A	
Principal Spillway	
Type: Natural Riprap CConcrete CMP RCP Other	
Width (Diam.): 105 168 ft Capacity: N/A 200-300 cfs cfs	
Emergency Spillway The Mill Race acts as the Emergency Spillway for Capes Dam	
Type: X Natural Riprap Conce CMP RCP Other	
Width (Diam.): N/A 20-30 ft ft Capacity: N/A 50-65 cfs	
Total Spillway Capacity: N/A 75-100 cfs cfs (crest of the dam)	
SECTION 4: HYDROLOGIC INFORMATION PMF = Probable Maximum Flood	Section 4: Hydrologic
Required Hydrologic Criteria (% PMF) N/A % PMF Passing N/A	Information : Why is not a single value provided on
PMF Study Year(N/A)	this Dam Removal permit?
Drainage Area: N/A 205,440 acres at Luling acres, or 321 sq mi sq mi	How can a permit to
Curve Number (AMC III condition) N/A AMC=Antecedent Moisture Conditions	remove a dam on an
Time of Concentration N/A 2-4 hours hr	important Central Texas
Peak Discharge N/A est 300,000cfs in May 2015 floods- gauge flooded & inoperable	River be allowed to omit ALL VALUES for critical
Peak Stage N/A 27'-28' above usual elevation of 554 ft-MSL, or 581-583 ft-MSL	rates of Water Flow?
Storm Duration Causing Peak Stage N/A hr 24 hours	

Page: 2

Number: 1 Author			17/2016 5:40:32 PM
	m Why are there no stu	udies available for No o	of people at Risk?
Number: 2 Author	r: kelley Subject:	: Line Date: 9/1	17/2016 4:56:39 PM
Number: 3 Author	r: kelley Subject:	: Line Date: 9/1	17/2016 4:56:39 PM
Number: 4 Author	r: kelley Subject:	: Text Box Date: 9/1	17/2016 4:56:39 PM
Number: 5 Author	r: kallav Subject	: Sticky Note Date: 9/1	17/2016 5:03:24 PM
	t: is the addition of Spi		·
Number: 6 Author	r: kelley Subject:	: Text Box Date: 9/1	17/2016 4:56:39 PM
Number: 7 Author		: Sticky Note Date: 9/1 th surveyors tape show	17/2016 5:03:01 PM v Capes Dam at 168' across (72' + 54' + 42'), 25' width at base, 5' at crest
			17/2016 4:56:39 PM
$\equiv \frac{\text{Number: 8 Author}}{168 \text{ ft}}$	r. kelley Subject.	. Text Box Date. 9/1	1//2010 4.30.35 FIVI
Number: 9 Author	r: kallav Subject	: Text Box Date: 9/1	17/2016 4:56:39 PM
5 ft	i. Kelley Subject.	. Text box Date. 3/1	1//2010 4.30.33 T M
Number: 10	Author: kelley	Subject: Sticky Note	e Date: 9/17/2016 5:03:43 PM
	,		nake sense. The form asks for the <u>elevation</u> as measured above "SL" (Sea Level). A value,
measured at the \underline{l}	<u>lowest possible point</u> on	Capes Dam is 554' ab	pove SL.
	varying levels to which		om a low of 554' above SL, to 580' above SL, a range of 26 ft in elevational difference, neavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day
representing the	varying levels to which	Capes Dam has been h	neavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day
representing the v 2015, and Hallow Principal Spillwa	varying levels to which een 2015. Author: kelley I y Elevation : The elevat	Capes Dam has been h Subject: Sticky Note	
representing the v 2015, and Hallow Number: 11	varying levels to which een 2015. Author: kelley I y Elevation : The elevat	Capes Dam has been h Subject: Sticky Note	neavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day e Date: 9/17/2016 5:02:35 PM
representing the value 2015, and Hallown Number: 11 Principal Spillwa LOWEST possible Number: 12	varying levels to which een 2015. Author: kelley I y Elevation : The elevat	Capes Dam has been h Subject: Sticky Note	neavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day e Date: 9/17/2016 5:02:35 PM
representing the value of the v	varying levels to which een 2015. Author: kelley y Elevation: The elevat elevation.	Capes Dam has been h Subject: Sticky Note tion of 554 ft above SL	neavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day e Date: 9/17/2016 5:02:35 PM can be used for all of the values asking for the elevation of Capes Dam, since 554' SL is the
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representing the value 2015, and Hallowe 2015, and Hallowe Principal Spillwa LOWEST possible Number: 12 554' above SL Number: 13 Number: 14	varying levels to which een 2015. Author: kelley IY Elevation: The elevat elevation. Author: kelley	Capes Dam has been h Subject: Sticky Note tion of 554 ft above SL Subject: Text Box	neavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day e Date: 9/17/2016 5:02:35 PM can be used for all of the values asking for the elevation of Capes Dam, since 554' SL is the Date: 9/17/2016 4:56:39 PM
representing the value of the v	varying levels to which een 2015. Author: kelley by Elevation: The elevat elevation. Author: kelley Author: kelley Author: kelley	Capes Dam has been h Subject: Sticky Note tion of 554 ft above SL Subject: Text Box Subject: Line Subject: Text Box	e Date: 9/17/2016 5:02:35 PM can be used for all of the values asking for the elevation of Capes Dam, since 554' SL is the Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 5:37:26 PM Date: 9/17/2016 4:56:39 PM
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representing the value of value of the value of value of the value of	varying levels to which een 2015. Author: kelley IN Elevation: The elevate elevation. Author: kelley	Capes Dam has been h Subject: Sticky Note tion of 554 ft above SL Subject: Text Box Subject: Line Subject: Text Box	Peavily eroded, due to 3 historic 100-500 year floods, occurring Halloween 2013, Memorial Day Pe Date: 9/17/2016 5:02:35 PM Can be used for all of the values asking for the elevation of Capes Dam, since 554' SL is the Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 5:02:15 PM
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representing the value of value of the value of the value of the value of va	varying levels to which een 2015. Author: kelley IY Elevation: The elevat elevation. Author: kelley Author: kelley	Capes Dam has been h Subject: Sticky Note tion of 554 ft above SL Subject: Text Box Subject: Text Box Subject: Text Box Subject: Text Box Subject: Sticky Note the values above with Subject: Text Box Subject: Sticky Note the values above with	Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 5:02:15 PM Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 5:02:15 PM Date: 9/17/2016 5:02:15 PM Date: 9/17/2016 4:56:39 PM Date: 9/17/2016 4:56:39 PM
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While historical figures, Capes Dams' maximum holding capacity of 2,500,000 cubic ft quoted by TPWD River Studies employees in 2015 is thought to still be a valid approximation.

TPWD 2015 Newsletter, History of Dams on the Upper San Marcos River: https://tpwd.texas.gov/publications/pwdpubs/media/pwd_br_t3200_003_3_15.pdf

Comments from page 2 continued on next page

2,500,000 cu π =	37.4 dC-11			Page 5
Number: 21 57.4 ac-ft	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
■ Number: 22	Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM	
	, identification in the inclusion	545,000. 20	24.6. 5, 27, 2020 1150105 1 111	
Number: 23	Author: kelley		Date: 9/17/2016 5:05:40 PM	oviete
Normal Reservo	nir Capacity. Estimated	30 dC-11 dt 200-300CIS W	nti no breach in Capes Dam as currently (Aug 2010)	exists.
With breach it is	estimated Capes Dam	is only holding 40+ ac-fi	at 200-300 cfs.	
Number: 24 est 40 ac-ft 200-3	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
	Author: kelley ce Area: This figure is a 40,840 sq.ft or 3.2 acres	arrived at using 3521ft (e	Date: 9/17/2016 5:05:31 PM st length of river from Capes Dam to Rio Vista Dam) i	multiplied by the average width of the ri
✓Number: 26	Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM	
Number. 20	Author, kelley	Subject. Line	Date: 9/17/2010 4.30.39 FWI	
Number: 27	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
3.2 acres	-			
Number: 28	Author: kelley	Subject: Text Box	Date: 9/17/2016 6:00:43 PM	
Incorrect figures				
Number: 29	Author: kelley		Date: 9/17/2016 5:07:06 PM average from Halloween 2013 - Sept 2016.	
Number: 30 168 ft	Author: kelley	Subject: Text Box	Date: 9/17/2016 5:05:49 PM	
	Author kollov	Cubiact: Tout Boy	Data: 0/17/2016 A:E6:20 DM	
Number: 31 200-300 cfs	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
Number: 32	Author: kelley	Subject: Sticky Nete	Date: 9/17/2016 5:08:33 PM	
			of the Mill Race are nature soil and rock - not man n	nade.
Number: 33	Author: kelley			
		Subject: Text Box Spillway for Capes Dam	Date: 9/17/2016 4:56:39 PM	
Number: 34	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
X	Author. Kelley	Subject. Text box	Date: 3/17/2010 4.30.33 1 W	
Number: 35	Author: kelley	Subject: Sticky Note	Date: 9/17/2016 5:11:17 PM	
Emergency Spill			e Principal Spillway is at 200-300 cfs	
Number: 36	Author: kelley	Subject: Sticky Note	Date: 9/17/2016 5:09:54 PM	
Emergency Spill	lway Width (Diam) Th		between 20-30 feet width.	
Number: 37	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
20-30 ft				
Number: 38	Author: kelley	Subject: Text Box	Date: 9/17/2016 5:11:40 PM	
50-65 cfs				
Number: 39	Author: kelley		Date: 9/17/2016 5:13:04 PM	
Emergency Spill	lway - Total Spillway (Capacity: Estimated at 7	5-100 cfs at peak discharge (flood) stage.	
Number: 40	Author: kelley	Subject: Text Box	Date: 9/17/2016 5:11:56 PM	
75-100 cfs				
Number: 41	Author: kelley	Subject: Text Box	Date: 9/17/2016 5:44:12 PM	
Section 4: Hydr	ologic information: W	my is not a single value	provided on this Dam Removal permit?	
How can a permi	it to remove a dam on a	an important Central Tex	as <u>River</u> be allowed to omit <u>ALL VALUES</u> for critical	I rates of Water Flow?
Number: 42	Author: kelley	Subject: Text Box	Date: 9/17/2016 4:56:39 PM	
PMF = Probable	Maximum Flood			
Number: 43	Author: kelley	Subject: Oval	Date: 9/17/2016 5:38:37 PM	
Number: 44	Author: kelley	Subject: Oval	Date: 9/17/2016 4:56:39 PM	
Number: 45	Author: kelley	Subject: Line	Date: 9/17/2016 4:56:39 PM	

Number: 47

Author: kelley

Subject: Sticky Note Date: 9/17/2016 5:14:39 PM

Section 4 - Drainage Area:

Information of 205,440 acres at Luling from Page 37: https://repositories.tdl.org/twdl-ir/bitstream/handle/10850/1357/Water%20Availability%20in%20the% 20Guadalupe-San%20Antonio%20River%20Basin.pdf?sequence=1

Drainage area of SMR at Luling 331 sq miles = 205,440 acres

From https://en.wikipedia.org/wiki/San_Marcos_River

Entire SMR:

Length 75 mi (121 km)
Basin 522 sq mi (1,352 km2)
Discharge-ave.236 cfs (7 m3/s)

205,440 acres at Luling Number: 49 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM	
321 sq mi Number: 50 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM	
AMC=Antecedent Moisture Conditions	
Number: 51 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM 2-4 hours	
Number: 52 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM est 300,000cfs in May 2015 floods- gauge flooded & inoperable	
Number: 53 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM	
27'-28' above usual elevation of 554 ft-MSL, or 581-583 ft-MSL	
Number: 54 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM	
Number: 55 Author: kelley Subject: Text Box Date: 9/17/2016 4:56:39 PM 24 hours	