NORTH TEXAS CRS USERS GROUP COMMUNITY CASE STUDY CITY OF DALLAS



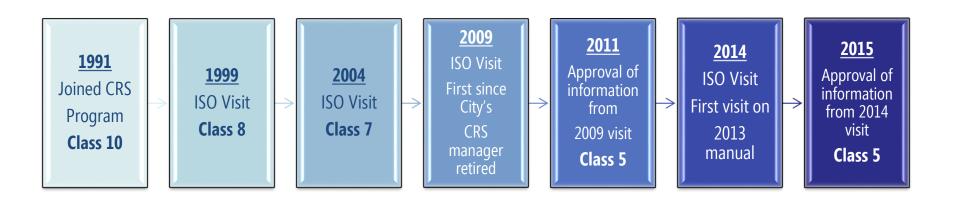
City of Dallas CRS Program

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DALLAS CRS HISTORY





200 SERIES

- 213 Program Data Table
- 230 Verification
- 240 CRS Community Self Assessment



213 PROGRAM DATA TABLE

CRS Program Data		A. In the SFHA	B. In a regulated floodplain outside the SFHA	C. In the rest of the community
1. Last report's number of buildings in the SFHA (bSF) (line 6, last	eport)			1
2. Number of new buildings constructed since last report		+		
3. Number of buildings removed/demolished since last report		-		1
4. Number of buildings affected by map revisions since last report (4	- 10			1
5. Number of buildings affected by corporate limits changes (+ or -)				
6. Current total number of buildings in the SFHA (bSF) (total lines 1	-5)			ĺ
				į –
7. Number of substantial improvement/damage projects since last rep	port			
8. Number of repetitive loss properties mitigated since last report				
9. Number of LOMRs and map revisions (not LOMAs) since last rep	ort			
10. Acreage of the SFHA (aSFHA) as of the last report (line 13, last	report)			
11. Acreage of area(s) affected by map revisions since last report (+	or –)			
12. Acreage of area(s) affected by corporate limits changes (+ or -)				
13. Current acreage of the SFHA (aSFHA) (total lines 10-12)				
14. Primary source for building data:				
15. Primary source for area data:				
16. Period covered:	Current F	IRM date:		
If available, the following data would be useful:			ĺ	Ì
17. Number of new manufactured homes installed since last report				
18. Number of other new 1 - 4 family buildings constructed since la	st report			
19. Number of all other buildings constructed/installed since last rep	ort			
Notes: Lines 1–8 deal with "buildings." Section 301 has more i how they are counted for CRS purposes. Numbers in column community also regulates floodplain development outside the S may deserve credit under Activity 410 (Floodplain Mapping)). Ti floodplain to what is happening in the rest of the community.	n A are fo SFHA, Co	or the Spec lumn B is c	ial Flood Haza ompleted (and	ard Area. If the the community

Dallas County Parcel and Building Flooding Analysis



The City of Dallas, Dallas County, Texas

Prepared by



Halff Associates, Inc.

June 2011



230 VERIFICATION

- Cycle Visit: October 6-7, 2014
- Results Received: June 8, 2015
- 2013 Manual
- Checklists
- Digital Submittal

FIRM Effective Date Current FIRM Date CRS Coontinator CRS Coontinator CRS Coontinator CRS continator CRS contin CRS continator CRS continator CRS continator C
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510 (Floodplain Management Planning) 520 (Acquisition and Relocation) 530 (Flood Protection) 540 (Drainae System Maintenance)
610 (Flood Warning and Response)
620 (Levees)
630 (Dams)
e and belief, we are maintaining in force all flood as a condition of Federal financial assistance for the Special Flood Hazard Area shown on our Floo saster assistance for any community-owned build aced by the amount of National Flood Insurance d contents) that a community should be carrying ity is carrying a policy.
(Chief Executive Officer)

	Activity	Description	File Name	Date Submittee
_		200 Series		
		300 Series		
		310 : Elevation Certificates		
x	310	Elevation Certificates	310-EC.pdf	8/25/2014
х	310-8C	Maintaining Elevation Certificates	310-EC.pdf	8/25/2014
x	310-ECPO	Maintaining Elevation Certificates for post-FIRM Buildings	310-ECPO.pdf	8/25/2014
	310-ECPR	Maintaining Elevation Certificates for Pre-FRIM Buildings (ECPR)		
_		320: Map Information Service	5	
	320	Map Information Service	320-MI Call in Log.xis	8/29/2014
	320-MI4	Flood Depth Data		
	320-MI5	Special Flood-Related Hazards		
	320-MI6	Historical Flood Information		
	320-MI7	Natural Floodplain Functions		
_		3 30: Outreach Project		
	330-OP	Outreach Projects		
	330-FRP	Flood Response Preparations		
N/A	330-PPI	Program for Public Information		
N/A	3 30-STK	Stakeholder Delivery		
_		340: Hazard Disclosure		
	340-DFH	Disclosure of Flood Hazard		
x	340-ODR	Other Disclosure Requirements	340-ODR1 Tx Property Code 5.008.pdf	8/25/2014
	340-REB	Real Estate Agents' Brochure	5.008.001	
	340-DOH	Disclosure of Other Hazards		
		350: Flood Protection Informati	on	
x	350-LIB	Flood Protection Library	350-LIB.pdf	8/29/2014
	350-LPD	Locally Pertinent Documents		
	350-WE8	Flood Protection Website		
		360: Flood Protection Assistan	ce	
	360-PPA	Property Protection Advice		
	360-PPV	Protection Advice Provided After a Site Visit		
	360-FAA	Financial Assistance Advice		
-	360-TNG	Advisor Training		1
		370: Flood Insurance Promotio		



300 SERIES

- 310 Elevation Certificates
- 320 Map Information Service
- 330 Outreach Projects
- 340 Hazard Disclosure
- 350 Flood Protection Information
- 360 Flood Protection Assistance
- 370 Flood Protection Promotion



310 ELEVATION CERTIFICATES – 116 POINTS

OBJECT: MAINTAIN CORRECT FEMA ELEVATION CERTIFICATES

- Maintaining Elevation Certificates (EC)
- Maintaining Elevation Certificates for post_FIRM buildings (ECPO)
- Maintaining Elevation Certificates for pre_FIRM buildings (ECPO)

	City of Dallas
	City of Danas
0	October 13, 2014
	1r. Dave Arkens, CFM
3	SO/CRS Specialist, ISO Community Hazard Mitigation 233 Cutty Sark Street
	as Vegas, NV 89117
į	E: CRS Activity 310 - Elevation Certificates - Dallas Standard Operating Procedure
I	Dear Mr. Arkens:
I	n reference to CRS Activity 310 - Elevation Certificates, I would like to provide the following information.
E	The Gity of Dallas does not permit new construction or substantial improvements in the floodplain. This rohibition has been in effect since Dallas entered the NFIP in 1983. There have been no building permits or new construction or for substantial improvements issued since that time, unless authorized as a special experior by the Board of Adjustment in accordance with to floodplan regulations.
	We have caterias and a permitting system for Boodphin reclamation. Prevboard is required to expanse hereino carrificates for cases in which improvements are grouposed and the flowinghas stratus is not clear. Inner are here on file, sa well as copies of elevation certificates submitted by individuals. As part of our namal outsech to floodplain properties, the City plans to request copies of any Elevation Certificates that more property owners might have so that they can been kept in our coolds.
(st c	I as Elevation Centificate is received, it is verticeed and approved by the Floodphin Consolitator who is a FLM. If an Elevation Centificate is ubmitted and is not complete or correct, will be seen back to the unreyor, engineer, or property owner and corrections are requested. Completed Elevation Centificates are ten field in the hard corp records kept by the Floodphin Management Scienci and scanned in to our signal files. Moving forward, the City plans to develop a G1S keyt with Purcela associated with received Devation Centificates to they are then associated with that pareal for forum reference.
	Completed Elevation Certificates are available for review upon request and are easy to reference and locate through our records.
1	lease let me know if you need additional information.
2	Ster Palen
	iteve Parker, P.E., CFM
	rogram Manager Joodplain Management
	innity Watershed Management

th/d	RM, EMERGENCY MANAGEMENT AGENCY al Flood Insurance Program	IMPORTANT: F	NOW THE RESIDE	stars on balls		_	spanna	on bate. Ju	31, 2015
-		SECTION A	- PROPERTY	INFORMAT	ION	1	OR INSU	RANCE COM	ANY USE
A1.	Building Owner's Name					P	licy Nam	ber:	
A2.	Building Street Address (including Apt., Unit	t, Suite, and/or Bidg	No.) or RO. Rou	te and Eox N	0.	0	ompany)	SAIC Number:	
-	City		St	ate		718	Cede		
A3.	Property Description (Lot and Block Number	rs, Tax Parcel Numb	er, Legal Descript	tion, etc.)		1.000			
	Building Use (e.g., Residential, Non-Reside	and Addition Assoc	and the later la						
A6.	Latitude/Longitude: Lat	Lon	6			ontal Da	tum: []	NAD 1927	INAD 19
A6.	Attach at least 2 photographs of the buildin Building Diagram Number	og if the Certificate i	s being used to o	obtein flood in	SLEBTICE.				
	For a building with a crawlspace or enclosu	relaic		A9. For a	building with	an attac	thed gar	age:	
	a) Square footage of crawlspace or enclose	um(s)	99.8		puare footage				sq
	b) Number of permanent flood openings in or enclosure(s) within 1.0 foot above ac	the crawlspace		b) N	amber of por thin 1.0 foot	manorit i	flood ep	enings in the grade	attached gara
	c) Total net area of flood openings in A8.b	COLUERAS	sq in		tal net area		oening	sin A9.0 _	- 80
	d) Engineered flood openings? Yes	□ No		(1) Er	gineered flo	od open	ings?	THE D	No
		B - FLOOD INSI			M) INFORM	ATION	1		
81	NPIP Community Name & Community Numb	ef.	B2. County Na	me				B3. Stat	
84.	Map/Panel Number 85: Suttx 86.	FIRM Index Date	87. RRM Pane Revised D	ate	BS. Flood	Zene(s)	89. 8 A	lase Rood Ele O, use base f	vation(s) (Zon load depth)
R1(). Indicate the source of the Base Flood Eleve	tion (REF) data or b	ase food death a	eterod in he	n 89:		-		
	BS Profile BRM Community	Determined 0	ther/Source:						
	. Indicate elevation datum used for BFE in Its			AVD 1988	Cther/1				
	Is the building located in a Coastal Barrier							DNo.	
812				therwise Prote	octed Area (C	Halls .	U		
812	Designation Date: / /		CBRS) area or O	therwise Prote	octed Area (C	Alahi.	0.00	0.14	
812	Designation Date: / /		C OPA					0	
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La Vaga, NV 9917 RE: CRS Activity 100 – Offisite Ellevation Cartificans Dear Mr. Axleen: Dear Mr. Axleen: Mr. Axleen: Mr. Marger Proper Manager Mr. Mr. Manager Mr. Mr. Manager Mr. Mr. Mr. Manager Mr. Mr. Mr. Mr. Mr. Mr. Manager Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr.	ISO/CRS Specialist, ISO Community Hazard Mitigation
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palar@half.com Please let the know if you need additional information. Sincerely. Stree Perkets, P.E., CPM Program Manager Floodplain Management	
Please lat me know if you need additional information. Sincerdy, Super Advance Store Pathene F.E. CPM Program Manager Picodylain Managerent	
Sincerely, Steve Packer, Siver Packer, P.E., CPM Program Manager Floodplain Management	
Steve Parker Steve Parker, P.E., CPM Program Manager Floodplain Management	Please let me know if you need additional information.
Steve Parker, P.E., CFM Program Manager Filoodplain Management	Sincerely,
Program Manager Floodplain Management	Stew Adden
Floodplain Management	
THINTY WATCHENED WARKSERENT PLOODPLAN MANAGEMENT DAVID IN 120 8. JEPTERSON ILVD., NOW 377 DALLAR, TEXAS 71233 TEL. 314-818-8180 FAX 314-914-9180	



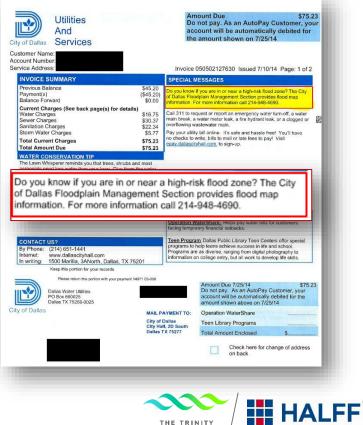
320 MAP INFORMATION SERVICES – 90 POINTS

OBJECT: PROVIDE CITIZENS WITH FLOOD HAZARD INFORMATION

Log

ATE	TYPE	ADDRESS	NAME, PHONE #, COMPANY NAME	MAP.PANEL #	ZONE	BEE EL	INFO GIVEN	ASST, BY
10/1/2012		1802 Highland Rd (LOMR -2007)	Tom Juhn w/JBI Partners 972-738-0226	47-C, 0365J, 365K	AEX	430	V	Tam, Stev
10/1/2012		PRP forms for 8220 Coolgreen	Cindy w/ State Farm Insurance 214-327-9315	48-A, 0365J	AE,X	483,490	V,E	Tam
10/1/2012		8707 Wingate (Bachman Branch)	Kelly Vanboven 214-683-2025	24-W, Bachman	AE X		V	Tam
0/1/2012	1000	Mill Creek floodplain	Dale		AE X		V	Tam
10/2/2012		PRP forms for 8220 Coolgreen	Cindy w/ State Farm Insurance 214-327-9315	48-A, 0365J	AE X	483,490		Tam
10/2/2012		1445 Ross Ave (flood maps)	Andrew John, 214-855-7766	Mill Creek	AE,X		V	Tam
10/2/2012	Ľ.,	4835 Pachuca (Need flood maps) Insurance infor	Karl Insurance Inc. 214-497-5545	62-L, 470 J Five Mile creek	X		V	Tam
10/2/2012			Chad Senn Nobilityhomes@sbcglobal.net	27-Q McCree plate 12, 13	X AE	486.3		Tam
10/3/2012		information about fill permit					V	Tam
10/3/2012		Flood insurance infor	Maria McWilliam 214-662-3588				V	Tam
10/3/2012		Outreach letter	Theresa Green 214-375-7722				V	Tam
10/3/2012		1630 Kessler	Raph Tilman 214-941-2636	44-T	AE,X		V	Tam
10/3/2012	188	9910 Inwood (Browning branch) Bachman branch plate 2	Andrea Pittman andrea@daystapp.com 214-498-1411	24-R	AE,X		V	Tam
10/4/2012	100.00	2223 Elderoaks (Woody Branch) Send LOMR to FEMA 2005	Kay Rodger 214-794-0159	63-V, 0490J	AE,X	557		Tam
10/4/2012	÷	Outreach letter	Mary 469-688-1011	8			V	Tam
10/4/2012	10.00	329 Saint Augustine	Code Complian				V	Tam
10/4/2012		306 Centenial					V	Tam
10/4/2012		9910 Inwood (Browning branch) Bachman branch plate 2	Andrea Pittman andrea@daystapp.com 214-498-1411	24-R	AE.X		V,E	Tam
10/4/2012	W	13925 Hillcrest (WRC)	Mark 214-505-8888	15-M	AE,X	538	V, E	Tam
des: W =	- walk	in, H = Gave handout, T = Telephone r	equest, E = Email, V = Told Verbally, L =	- written request, N/#	-Not A	pplicable	, M=Mail	

Notification

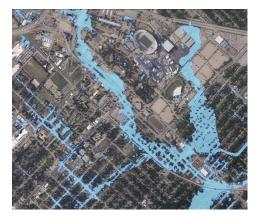


THE TRINITY

320 MAP INFORMATION SERVICES – 90 POINTS



Problems not shown on the FIRM (MI3)



Additional FIRM Information (MI2)



Flood depth data (MI4)





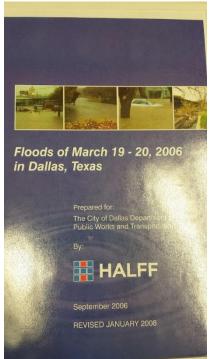
320 MAP INFORMATION SERVICES – 90 POINTS

Special flood-related hazards (MI5)



Natural floodplain functions (MI7)

Historical flood information (MI6)





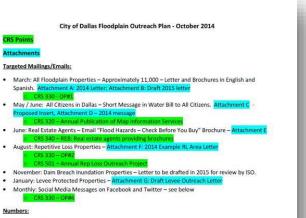
330 OUTREACH PROJECTS – 200 POINTS

OBJECT: PROVIDE PUBLIC WITH FLOOD RELATED INFORMATION

City of Dallas Annual Outreach Plan

- Targeted Mailings/Email
- Summary of Numbers
- Information Materials
- Public Meetings
- Targeted Training Events
- General Outreach

		Points			Topics	s Covered			Times		
	Outreach Projects	per Topic	1. Hazard	2. Insure	3. People	4. Property	5. Build	6. Natural	per Year	Count	0
			1. Flood Hazard Information	3. Flood Insurance	2. Flood Safety	9. Property Protection	6. Substantial Improvements & 7. FDP Rqmnts	10. Natural and Beneficial Functions			
OP#1	Targeted Mailing of Brochure to All FP Properties	6	×	х	x	x	x	X	1	6	36
OP#2	Targeted Mailing of Brochure to Rep Loss Properties	6	Х	х	X	Х	Х	Х	1	6	3
OP#3	Floodplain Brochure in City Hall, Public Library, TWM Offices	1	×	x	x	x	x	x	1	6	e
OP#4	Training Event for Local Engineering Community	2	Х	х	X	Х	Х	Х	2	6	2
OP#5	5 HOA/Neighborhood Meetings Targeted for Areas in Floodplain	6	х	х	х	х	х	х	5	6	18
OP#6	Facebook/Twitter Messages (monthly messages, 1 topic per month)	2	х	х	х	х	x	х	2	6	2
OP#7	Community Events (Preparedness Fair) - Answer questions, pass out brochures	2	х	х	x	x	x	x	1	6	1
OP#8	Do Not Dump Print Ads	2						Х	1	1	2
OP#9	Do Not Dump Billboards	2						Х	1	1	2
OP#10	Do Not Dump Stencil on Inlet	2						Х	1	1	2
OP#11	Do Not Dump Bus Ads	2						Х	1	1	2



- Floodplain Properties = Approx 11,000
- Real Estate Agents = email list of 21,500
- Repetitive Loss Area Properties = Approx 300
- Dam Breach Inundation Properties = Approx 9,500
- Levee Protected Properties = Approx 15,000

Brochures/Flyers – Information Material:

- Floodplain Brochure in City Hall, Dallas Public Library, Trinity Watershed Management year-round. Attachment H
 - CRS 330 OP#1, OP#2, OP#3, OP#5, OP#
- Real Estate Brochure to be emailed to agents to pass out to their buyers. Attachment E CRS 340 – REB

Public Meetings:

- Homeowners Association / Neighborhood Meetings Targeted Outreach and Stakeholder Delivery at least 5 events per year CRE 330 – 0785
- Community Events General Outreach (i.e. Preparedness Fair) 1 event per year CRS 330 – OP#7



330 OUTREACH PROJECTS

SCHEDULE

January – Letters sent to approx. 15,000 levee protected properties – (CRS 620)
March – Letters/Brochures sent to approx. 11,000 floodplain properties – (CRS 330)
May – Water Bill Message – (CRS 320)

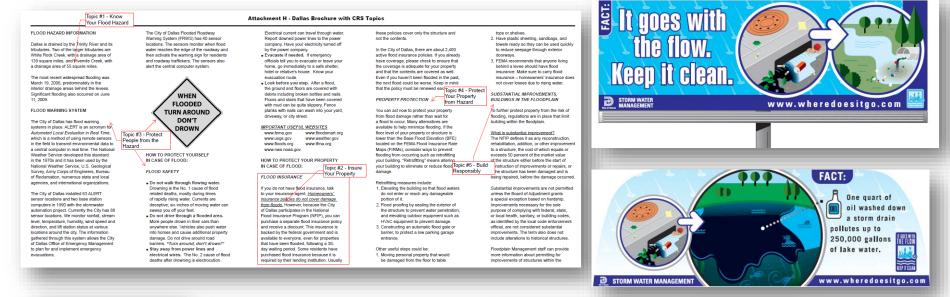
- **June** Email sent to approximately 21,500 Real Estate Agents (CRS 340)
- August Letters sent to approx. 300 repetitive loss properties (CRS 330/501)
- **November** Letters sent to approx. 9,500 dam protected properties (CRS 630)

Monthly – Twitter/Facebook messages covering six topics
Five Times Annually – HOA/Neighborhood Meetings
Twice Annually – Local Engineering/Development Outreach
Annually – General Outreach (Preparedness Fair)



330 OUTREACH PROJECTS

MATERIAL



	City of Dallas	Attachment F - Example of 2014 Rep Loss Area Outreach Letter	
0, 2014			
ety Owners in Repet o Dak and Rullarcup		36	
	s an annual notice.	aod insurance Program and the to property oxidera in areas where	

DATE/FECHA JAN 11

JAN 13

JAN 18

JAN 25

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Ston Parlen Steve Parker, P.E., CP.V. Program Manager, Placitylain Manageme Trate Stateshed Management

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THE TRINITY RIVER LEVEES HAVE BEEN DECERTIFIED AND AS A RESULT FEMA IS IN THE PROCESS OF MAPPING THE AREAS BEHIND THE LEVEES AS FLOODPLAIN

NEIGHBORHOOD MEETINGS: IMPORTANT INFORMATION ABOUT YOUR HOUSE OR BUSINESS

LOCATION/UBICACIÓN

TIME/TIEMPO LOCATION/UBICACIÓN 12:00 PM 1:00 PM INTERNATIONAL TRADE PLAZA (IFGC

IF YOU HAVE QUESTIONS, PLEASE CALL DORCY CLARK AT 214-871-9583 OF EMAIL DORCY.CLARK@DALLASCITYHALL.COM. ADDITIONAL INFORMATION IS AVAILABLE AT WWW TRINITYRIVERCORRIDOR ORG Si tiene preguntas, llame al Dorcy Clark at 214-671-9583 o e-mai clark@dallascityhall.com. Información adicional está disp www.trinityrivercorridor.org City of Dallas

ADDRESS/DIRECCIÓN

2000 N. STEMMONS FREEWAY

No.	DATE	Social Media Account		TOPIC
1	January 15, 2015	City of Dallas FB/Tw	1	Know your flood hazard
2	February 1, 2015	Trinity FB/Tw	1	Know your flood hazard
3	February 15, 2015	City of Dallas FB/Tw	2	Insure your property for your flood hazard
4	March 1, 2015	Trinity FB/Tw	2	Insure your property for your flood hazard
5	March 15, 2015	City of Dallas FB/Tw	3	Protect people from the hazard
6	April 1, 2015	Trinity FB/Tw	3	Protect people from the hazard
7	April 15, 2015	City of Dallas FB/Tw	4	Protect your property from the hazard
8	May 1, 2015	Trinity FB/Tw	4	Protect your property from the hazard
9	May 15, 2015	City of Dallas FB/Tw	5	Build Responsibly
10	June 1, 2015	Trinity FB/Tw	5	Build Responsibly
11	June 15, 2015	City of Dallas FB/Tw	6	Protect natural floodplain functions
12	July 1, 2015	Trinity FB/Tw	6	Protect natural floodplain functions
13	July 15, 2015	City of Dallas FB/Tw	1	Know your flood hazard
14	August 1, 2015	Trinity FB/Tw	1	Know your flood hazard
15	August 15, 2015	City of Dallas FB/Tw	2	Insure your property for your flood hazard
16	September 1, 2015	Trinity FB/Tw	2	Insure your property for your flood hazard
17	September 15, 2015	City of Dallas FB/Tw	3	Protect people from the hazard
18	October 1, 2015	Trinity FB/Tw	3	Protect people from the hazard
19	October 15, 2015	City of Dallas FB/Tw	4	Protect your property from the hazard
20	November 1, 2015	Trinity FB/Tw	4	Protect your property from the hazard
21	November 15, 2015	City of Dallas FB/Tw	5	Build Responsibly
22	December 1, 2015	Trinity FB/Tw	5	Build Responsibly
23	December 15, 2015	City of Dallas FB/Tw	6	Protect natural floodplain functions
24	December 30, 2015	Trinity FB/Tw	6	Protect natural floodplain functions

60 One quart of oil washed down a storm drain pollutes up to 250,000 gallons of lake water. MANAGE

B maximum www.wheredeesitgo.com

THE TRINITY DALLAS



340 HAZARD DISCLOSURE – 15 POINTS

OBJECT: DISCLOSE A PROPERTY'S POTENTIAL FLOOD HAZARD TO BUYERS

- Disclosure of flood hazards (DFH)
- Other disclosure requirements (ODR)
 - Texas Association of Relators Seller's Disclosure Notice
- Real estate agents' brochure (REB)

Section 5.008, Property Code require Notice to a buyer on or before the effe	s a seller i	ER'S DISCLOSU of teast Association of REALTON of residential property of not of a contract. This form c seminimum disclosures m	more than omplies wi	none dwelling unit to deliver a Seller's ith and contains additional disclose	Disclosu ares whi	ure ich	Concerning the Property at Water supply provided by: Was the Property built before 19 (If yes, complete, sign, and a	978? 🖬 yes 🖬 attach TAR-1906
CONCERNING THE PROPER	TA YI					- 11	Roof Type: Is there an overlay roof covering	on the Property
THIS NOTICE IS A DISCLOSU AS OF THE DATE SIGNED WARRANTIES THE BUYER M SELLER'S AGENTS, OR ANY	BY SEI	LER AND IS NOT A	A SUBST	TITUTE FOR ANY INSPECT	IONS (OR	covering)? yes no un Are you (Seller) aware of any c defects, or are need of repair?	nknown of the items liste
Seller is is not occupy the Property?	ing the I	Property. If unoccupie or	d (by Sel	ller), how long since Seller has r occupied the Property	occup	ied		
Section 1. The Property has	the item	s marked below: (Ma	ırk Yes (t conve		Section 2. Are you (Seller) a (Y) if you are aware and No (N	I) if you are not
							Item Y N Basement	Item Floors
Item Y N U Cable TV Wiring			YNU	Item Pump: I sump I grinder	YN	N U	Ceilings	Fioors Foundation /
Cable I V Wiring Carbon Monoxide Det.	- Lide	id Propane Gas: Community (Captive)		Rain Gutters	+		Doors	Interior Walk
Ceiling Fans		on Property		Range/Stove	++		Driveways	Lighting Fixt
Cooktop	Hot			Boof/Attic Vents	++		Electrical Systems	Plumbing Sy
Dishwasher		com System		Sauna	+ +		Exterior Walls	Roof
Disposal		owave		Smoke Detector		+	If the answer to any of the items	in Section 2 is a
Emergency Escape	Outo	loor Grill		Smoke Detector – Hearing Impaired				
Ladder(s)								
	Patie	Decking			++			
Exhaust Fans	Patie	o/Decking bing System		Spa	#	=	Section 3 Are you (Seller) a	ware of env of
Exhaust Fans Fences Fire Detection Equip.	Patie Plun Pool	nbing System		Spa Trash Compactor TV Antenna		ŧ	Section 3. Are you (Seller) a and No (N) if you are not awar	ware of any of
Exhaust Fans Fences Fire Detection Equip. French Drain	Plun Pool Pool	bing System Equipment		Spa Trash Compactor TV Antenna Washer/Drver Hookup			and No (N) if you are not awar	ware of any of re.)
Exhaust Fans Fences Fire Detection Equip. French Drain Gas Fixtures	Plun Pool Pool Pool	bing System Equipment Maint. Accessories		Spa Trash Compactor TV Antenna Washer/Dryer Hookup Window Screens			and No (N) if you are not awar Condition	ware of any of re.)
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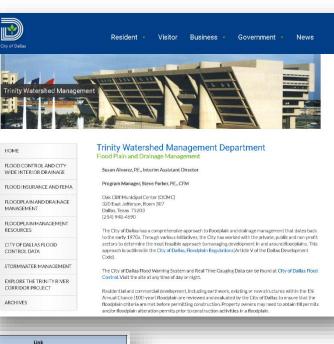


350 FLOOD PROTECTION INFORMATION – 58 POINTS

OBJECT: PROVIDE PUBLIC WITH INFORMATION ABOUT FLOOD PROTECTION

- Flood Protection Library (LIB)
 - 10 Required FEMA Publications
- Locally Pertinent Documents (LPD)
- Flood Protection Website (WEB)
 - Floodplain Brochure
 - City of Dallas Flood Warning page
 - City of Dallas Real-time Stream Gage page
 - Helpful Federal, State, Local floodplain information websites
 - Link to DFIRMs
 - Floodplain Ordinances and Regulations

Media Type	Title	Author	Publisher	Publishing Date	Call Number	Location	Link
Book	Flood Proofing: how to evaluate your options: decision tree	National Flood	USACE National F	1995	D 103.6/5:f 65/4	Central - 6th Floor - Government I	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=2
Pamphlet	FloodSmart.gov: know your risk	FEMA	FEMA	2010	HS 5.102:F 65/21	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=4
Microform	Flood insurance study: City of Grand Prairie, Texas, Dallas, Tarrant, and Ellis Counties	FEMA	FEMA	1996	FEM 1.209/43:485472	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=5
Microform	Flood preparedness and mitigation: map modernization, levee inspection, and levee repairs; joint hearing before the Ad Hoc Subcommittee on Bitaste, Recovery and Ad Hoc Subcommittee on State, Local, and Private Sector Preparedness and Integration of the Committee on Homeland Security and Governmental Affairs, United States Senate, One Hundred Eleventh Congress, second session, July 28, 2010	Committee on	US General Publi	2011	Y 4.G 74/9:S.HRG.111	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=33
Book	Tropical Storm Allison: heavy rains and floods, Texas and Louisiana, June 2001	National Weat	National Weathe	2001	C 55.137:T 55/2	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=35
Book	History of the Dallas Floodway	Furlong, John M	J.N. Furlong	2003	627.a F985H 2003	Central - 7th Flood - Texas Dallas Hi	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=50
CD-ROM	The FEMA Substantial Damage Estimator (SDE)	FEMA	FEMA	2010	HS 5.120:D 18/9/CD	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=36
Book	Flood proofing regulations	USACE	USACE	1998	D 103.43:1165-2-314/	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=37
Book	National Flood Insurance Program: dwelling form, standard flood insurance policy	National Flood	FEMA	2004	HS 5.102:F 76/2	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=39
Book	National Flood Insurance Program: general property form, standard flood insurance policy	National Flood	FEMA				http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=40
Book	Flood-proofing regulations	USACE	USACE	1972	D 103.43:1165-2-314	Central - 6th Floor - Government In	http://catalog.dallaslibrary.org/polaris/search/title.aspx?pos=41





360 FLOOD PROTECTION ASSISTANCE – 55 POINTS

OBJECT: PROVIDE PUBLIC WITH INFORMATION ABOUT FLOOD PROTECTION

- Property protection advice (PPA)
- Protection advice provided after a site visit (PPV)
- Financial assistance advice (FAA)

City of Dallas

As part of the requirements of the National Flood Insurance Program and the Community Rating System, this is an annual notice to owners of properties in or

Some measures you can employ to reduce potential losses include floodproofing the exterior of your home, garage, or other buildings, keeping valuables, important papers, and electronic equipment such as televisions and computers off the floor or lower shelves and placing them on higher shelves and tables, and keeping plasits insheding, and towels ready to help reduce seepage of the plant of the sheling.

The City of Dallas pays for flood control projects, floodplain management studies, and voluntary purchases, through bond programs, which are offered every few years. We also work with state agencies such as the Texas Water Development Board in seeking funding for flood mitigation projects.

Homeowner's insurance policies generally do not cover damage from floods.

However, because Dallas participates in the National Flood Insurance Program, you can purchase a separate flood insurance policy. In addition, because we

also participate in the Community Rating System, you will receive a reduction in the insurance premium. During the kind of flooding that occurs in Dallas, there can be as much damage to contents as to the structure, so be sure to have

We have additional floodplain information available on request. If you have any questions about flooding, property protection, or flood insurance, please feel free to call our office at 214-984-690. Flood maps are available to view or copy at

our offices at 320 E. Jefferson Blvd., Room 307. Much more information can be

found at http://dallascityhall.com/trinity_watershed/flood_insurance.html.

contents coverage if you choose, or are required, to purchase flood insurance.

Advisor training (TNG)

To: Property Owners In or Near Floodplain Areas

September 25, 2014

close to the floodplain

water through door sills.

Stum Paele

Steve Parker, P.E., CFM

Program Manager, Floodplain Management Trinity Watershed Management

			Examples of Site Visits Conducted by City of Dallas Staff				
Date	Stream	Site	Staff Member	Findings	Recommendations		
					Recommended Elevation Certificate and provided information o		
Aug-14 W	West Fork of Joe's Creek	Inwood Downstream of Webb Chapel	Steve Parker	Property is located in SFHA.	flood insurance. Also going to pursue a floodplain management		
					plan for this watershed to establish mitigation strategies for		
					reducing flood hazard area.		
Aug 14	Coombs Creek Apartment Complex Steve Parker Erosion along streambank	Erosion along streambank	Discussed simple mitigation strategies. Also added this site to				
Aug-14	COOMDS CREEK	Apartment Complex	Sleverarker	Erosion along streambank	Needs Inventory for potential future bond program.		
Jun-13	Trib of Jackson	Home	David Garcia	Base to be a she of the third is action	Hired consultant to assess breach and develop potential		
Jun-13	Thb of Jackson	Home	David Garcia	Dam is breached in this location.	solutions.		
Feb-12	Williamson Branch	Home S	Steve Parker	Property is located in SEHA.	Recommended Elevation Certificate and provided information of		
Feb-12					flood insurance.		

Steve Parker, PE, CFM Program Manager

Bachelor of Science Civil Engineering - Texas A&M University (1985)

Licensed Professional Engineer, State of Texas No. 69958

Certified Floodplain Manager, State of Texas No. 1127-06N

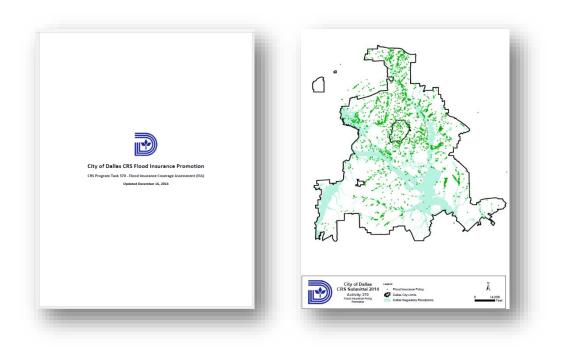
Steve Parker joined the City of Dallas Public Works Department – Floodplain Management Section in 1985. The Floodplain Management Section was transitioned to the newly formed Trinity Watershed Management Department in 2007. Steve maintains continuing education for his PE and CFM annually and has presented numerous papers at conferences throughout Texas. His 25+ years of experience in the City's floodplain management section includes a vast history of flooding concerns and challenges and successful mitigation projects completed.



370 FLOOD PROTECTION ASSISTANCE – 0 POINTS

OBJECT: IMPROVE FLOOD INSURANCE COVERAGE IN THE COMMUNITY

- Flood Insurance Coverage Assessment (FIA)
- Coverage Improvement Plan (CP)
- Coverage Improvement Plan Implementation (CPI)
- Technical Assistance (TA)





400 SERIES

- 410 Floodplain Mapping
- 420 Open Space Preservation
- 430 Higher Regulatory Standards
- 440 Flood Data Maintenance
- 450 Stormwater Management



410 FLOODPLAIN MAPPING - 71 POINTS

OBJECT: IMPROVE QUALITY OF MAPPING USED TO IDENTIFY AND REGULATE DEVELOPMENT

- New Study (NS)
- Leverage (LEV)
- State Review (SR)
- Higher Study Standards (HSS)
- More Restrictive Floodway Standard (FWS)
- Floodplain Mapping of Special Flood-Related Hazards (MAPSH)
- Cooperating Technical Partner (CTP)



410 FLOODPLAIN MAPPING

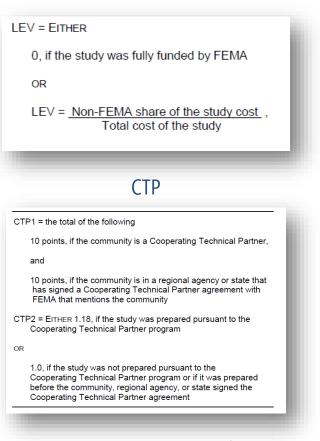
New Study

	Original FIRM Zone			
Study Scope	B, C, D, or X	A or V	AE, VE, A#	
1. Delineation of an approximate A Zone	70	60	-	
2. a. Flood elevations for a site at time of development	100	80	45	
 Flood elevations and floodway for a site at time of development 	130	105	65	
 New profile or length of shoreline, base flood elevations/depths in AH and AO Zones. 	225	175	110	
 New profile with floodway, length of shoreline with coastal velocity zone delineation, or converting coastal A Zones to V Zones 	290	230	140	

HSS

	Origin	Max		
Study scope	B, C, D, or X	A or V	AE, VE, A#, V#	per Study
1. Delineation of an approximate A Zone	20	15	-	60
2. Flood elevations for a site at time of development	30	20	15	90
3. New profile or length of shoreline	80	60	40	160

Leverage



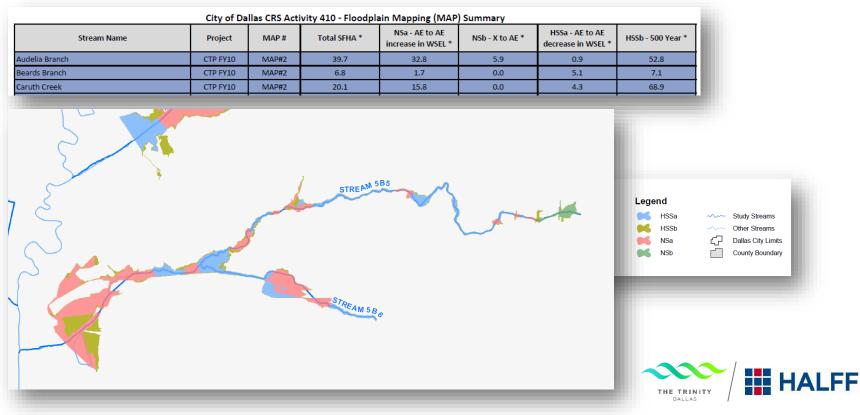




410 FLOODPLAIN MAPPING

SUPPORTING DOCUMENTATION

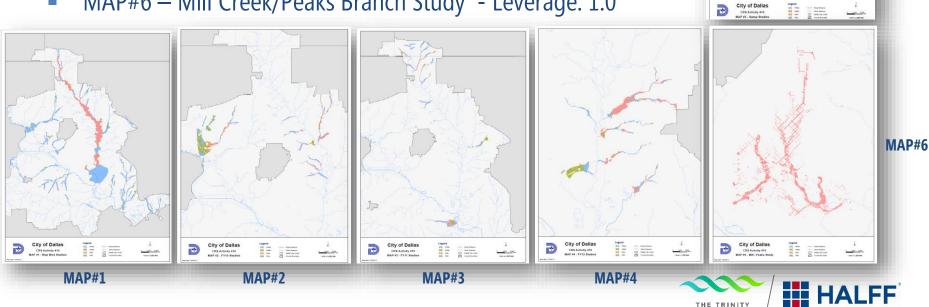
- New Study Case A (NSa) Zone AE to Zone AE with an increase in WSEL
- New Study Case B (NSb) Zone X to Zone AE
- Higher Standards Case A (HSSa) Zone AE to Zone AE with a decrease in WSEL
- Higher Standards Case B (HSSb) 500 Year Floodplain



410 FLOODPLAIN MAPPING

SUPPORTING DOCUMENTATION

- MAP#1 MapMod Streams Leverage: 1.0
- MAP#2 Dallas CTP FY10 Study Leverage: 0.25
- MAP#3 Dallas CTP FY11 Study Leverage: 0.25
- MAP#4 Dallas CTP FY12 Study– Leverage: 0.25
- MAP#5 Trinity River Levee Sump Study Leverage: 1.0
- MAP#6 Mill Creek/Peaks Branch Study Leverage: 1.0



MAP#5

420 OPEN SPACE PRESERVATION – 1,199 POINTS

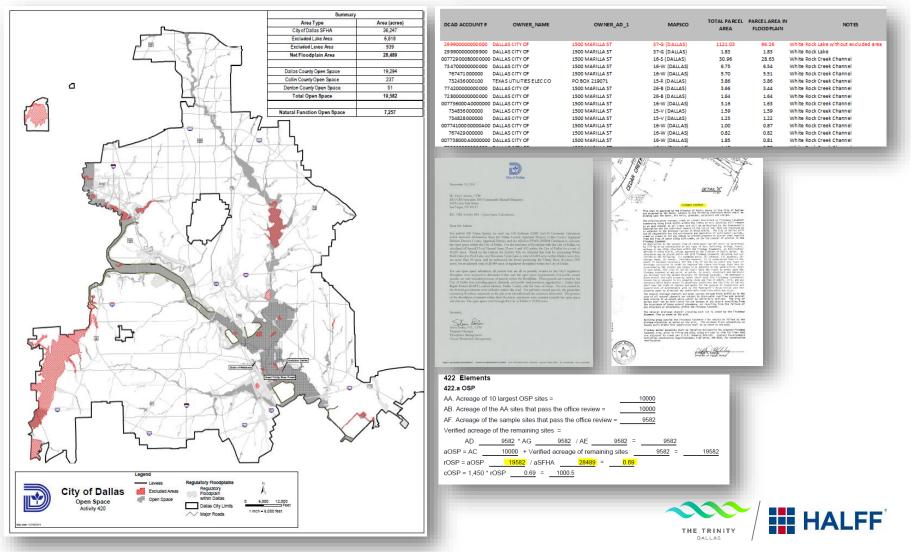
OBJECT: PREVENT FLOOD DAMAGE BY KEEPING LANDS OPEN, PROTECT NATURAL FUNCTIONS

- Open Space Preservation (OSP)
- Deed Restrictions (DR)
- Natural Functions Open Space (NFOS)
- Special Flood-Related Hazards Open Space (SHOS)
- Open Space Incentives (OSI)
- Low-Density Zoning (LZ)
- Natural Shoreline Protection (NSP)



420 OPEN SPACE PRESERVATION

OPEN SPACE PRESERVATION SUPPORTING DOCUMENTATION



420 OPEN SPACE PRESERVATION

NATURAL FUNCTIONS OPEN SPACE SUPPORTING DOCUMENTATION

Natural Floodplain Functions Form				
Property name	Great Trinity River Forest			
Property location	The boundaries of the forest extend from the Santa Fe Trestle Trail near Corinth Street and Riverfront Boulevard within view of downtown Dallas, to just past IH-20, an eleven-mile stretch of land that basically follows the Trinity River.			
	As part of the overall Trinity River Corridor Project, this resource is now almost exclusively owned by the City of Dallas, comprising an area of approximately 7,600 acres. The main objective of the program is to protect the Trinity River, forest, and floodplain, a mostly undisturbed bottomland hardwood forest.			
	Much of the lands within the Great Trinity River Forest have been farmed or grazed at one time, whereas some portions of the forest could be considered a true undeveloped natural state. However, areas manipulated or managed in the past could be considered as restored, or in the process of regenerating, to their natural state.			
Summary of the habitat or natural benefits provided at this property	In addition to the numerous natural wetlands that contribute to floodplain function, the USACE is in the process of constructing a series of wetland ponds to reduce flooding and provide ecosystem restoration. Located along the western edge of the Great Trinity River Forest, the completed project will encompass a four mile area from Cedar Creek to Loop 12.			
	In October of 2008, the Trinity River Audubon Center opened in the Great Trinity Forest boasting 120 acres, nine emergent wetland ponds, four miles of hiking trails, and a lookout over the Trinity River. Visitors have the opportunity to explore hands-on exhibits and participate in programs offered to educate and entertain children, families, and adults. Academic programs at the center are also available for students, and include teacher workshops to assist educators in environmental education.			
Name of person completing this form	Russell Marusak			
Signature	Russell Marusak			



MINUTES OF THE DALLAS CITY COUNCIL II. VISION Flood Protection component: A balanced vision for flood protection throughout the Dallas – Fort Worth Metropiex must include efforts to manage growth's impacts on the watershed region-wide along with investments to minimize the impacts of flooding on specific neighborhoods and business areas. Without proper pleoping, unstream fueld/organt. PRESENT: [14] Miller, Loza, Hill, Garcia, Oakley, Thornton Reese, Salazar, Chaney, Griffith, Blaydes, Finkelman, Greyson, Rasansky, Lill ABSENT: [1] Fantroy proper planning, upstream development will continue to undermine Dallas' efforts to utilize the Dallas Floodway for a mix of uses. At the same time, the Dallas Floodway Extension Project, the Elm Fork Flood Protection Project nodest levee raises within the Dalla The city secretary announced that a quorum of the city council was present. Mayor Miller asked all members of the city council and the audience to stand for a moment of The meeting agenda, which was posted in accordance with Chapter 551, "OPEN MEETINGS," of the Texas Government Code, was presented.

WEDNESDAY, DECEMBER 8, 2003

Mayor

CITY OF DALLAS, TEXAS

03-3290

ATTEST: City Secretary

the minutes of this meeting. 1/22/04 11:16 AM G: 2003342N-CC120803.4ec

OFFICE OF THE CITY SECRETARY

VOTING AGENDA MEETING CITY COUNCIL CHAMBER, CITY HALL

MAYOR LAURA MILLER. PRESIDING

The meeting was called to order at 9:16 a.m.

The pledge of allegiance was led by the city council and the audience

The meeting agenda is attached to the minutes of this meeting as EXHIBIT A. The actions taken on each matter considered by the city council are attached to the minutes of this meeting as EXHIBIT B. Ordinances, resolutions, reports and other records pertaining to matters considered by the city council, are filed with the city secretary as official public records and comprise EXHIBIT C to

After all business properly brought before the city council had been considered the city council adjourned at 8.33 p.m.

Floodway are critical to providing a short term structural solution to flood protection. Fortunately, the parkway, lakes, recreation, and natural habitats can all be constructed within the Dallas Floodway without negative impacts me caracteristic procession of the second se





430 HIGHER REGULATORY STANDARDS – 253 POINTS

OBJECT: PREVENT FLOOD DAMAGE BY KEEPING LANDS OPEN, PROTECT NATURAL FUNCTIONS

Development Limitations (DL)

- DL1b Compensatory Storage
- Freeboard (FRB)
 - Fill to two feet above BFE, FF three feet above BFE

(g) <u>Filling operations</u>. If the city council approves a fill permit, the filling operations must comply with the following requirements:

(1) Any excavation required by the specifications of the approved application must be conducted before or at the same time as placing fill.

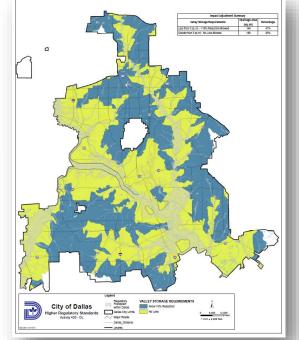
(2) Building pad sites must be filled to an elevation of at least two feet above the design flood elevation.

(3) The lowest floor of any structure must be constructed at least three feet above the design flood elevation.

- Foundation Protection (FDN)
- Cumulative Substantial Improvements (CSI)
 - 50% cumulative improvements calculated for previous 10 years

(2) <u>Improvements</u>. The owner of a structure in an FP area shall not make any improvements to the structure without first obtaining approval from the director of Trinity watershed management. The director of Trinity watershed management may approve proposed improvements if the cumulative value of all improvements for the previous ten years is less than 50 percent of the market or tax appraisal value of improvements on the property, whichever is

greater. No substantial improvements are permitted. Any improvement must comply with the requirements of Section 51A-5.105(g).





430 HIGHER REGULATORY STANDARDS – 253 POINTS

OBJECT: PREVENT FLOOD DAMAGE BY KEEPING LANDS OPEN, PROTECT NATURAL FUNCTIONS

- Lower Substantial Improvements (LSI)
- Protection of Critical Facilities (PCF)
- Enclosure Limits (ENL)
- Building Code (BC)
 - BCEGS Class 5
- Local Drainage Protection (LDP)
 - IBC, Positive drainage away from building site
- Manufactured Home Parks (MHP)
- Coastal A Zones (CAZ)
- Special Flood-Related Hazards Regulations (SHR)
- Other Higher Standards (OHS)
- State-Mandated Regulatory Standards (SMS)
- Regulations Administration (RA)
 - 18 CFMs on Staff

First_Name	Last_Name	Employer_Name	Professional_Title
Vincent	Lewis	City of Dallas	Project Engineer
Susan	Alvarez	City of Dallas	Sr. Program Manager
Stephen	Parker	City of Dallas	Program Manager
Jesse	Brooks	City of Dallas	Senior Engineer
Yousuf	Bawany	City of Dallas	Engineer K
SIRAK	BAHTA	CITY OF DALLAS	PROJECT MANAGER
David	Garcia	City of Dallas	Sr. Engineer
Minhtam	Vu	City of Dallas	Floodplain Coordinator
Mina	Eskander	City of Dallas	Project Engineer
Greg	Ajemian	City of Dallas	Senior Engineer
Paul	White	City of Dallas	Stormwater Manager
Shawn	Halle	City of Dallas	Senior Engineer
Dorcy	Clark	City of Dallas	
david	lam	City of Dallas	engineer
Lloyd	Denman	City of Dallas / Developmen	Assistant Director
Hamid	Darbandi-Fard	City of Dallas / Developmen	Senior Program Manager
Alireza	Hatefi	City of Dallas / Developmen	Engineer
Than	Nguyen	City of Dallas/Public Works	Engineer Assistant

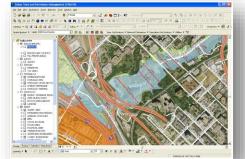


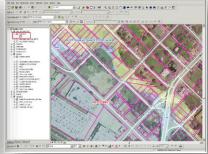
440 FLOOD DATE MAINTENANCE – 179 POINTS

OBJECT: MAKE COMMUNITY FLOODPLAIN DATA MORE ACCESSIBLE, CURRENT, ACCURATE

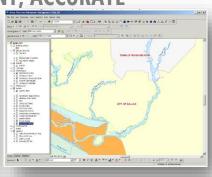
Additional Map Data (AMD)

- AMD1 SFHA, corporate limits, streets, lot boundaries
- AMD2 building footprints
- AMD3 floodway
- AMD4 base flood elevations
- AMD5 FIRM zone attributes
- AMD6 500-year floodplain elevation
- AMD7 other natural hazards
- AMD8 topographic contour lines
- AMD9 floodplain data in tax database
- AMD10 old FIRMs
- AMD11 other regulations
- AMD12 natural floodplain functions



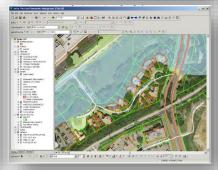


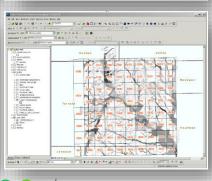










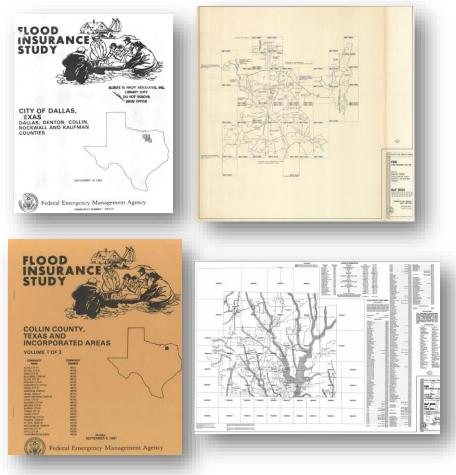




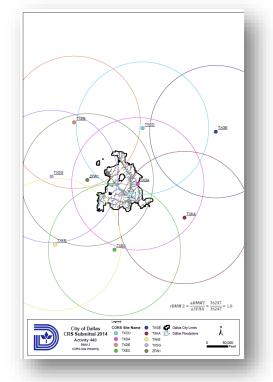
440 FLOOD DATE MAINTENANCE – 179 POINTS

OBJECT: MAKE COMMUNITY FLOODPLAIN DATA MORE ACCESSIBLE, CURRENT, ACCURATE

FIRM Maintenance (FM)



Benchmark Maintenance (BMM)



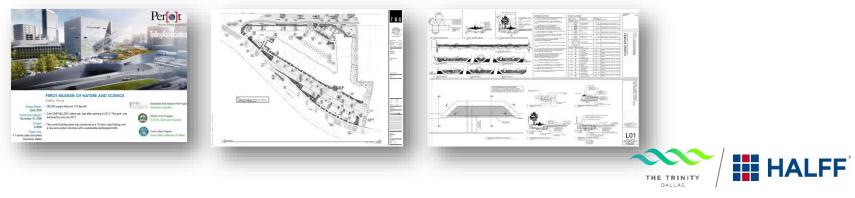
Erosion Data Maintenance (EDM)



450 STORMWATER MANAGEMENT – 112 POINTS

OBJECT: PREVENT FUTURE DEVELOPMENT FROM INCREASING HAZARDS

- Stormwater Management Regulations (SMR)
 - Size of Development (SZ) 20% increase in flow for 3 acres or less
 - Design Storm (DS) Detention designed to match the 100-Year
 - Public Maintenance of Required Facilities (PUB) Require inspection and maintenance of facilities
 - rSMR (341/513.6) Dallas (341), Arlington (17.7), Grand Prairie (32.3), Plano (21.1)
- Watershed Master Plan (WMP)
- Erosion and Sedimentation Control Regulations (ESC)
 - Control erosion and soil loss from any disturbed land greater than 1 acre
- Water Quality Regulations (WQ)
 - New development to include BMP in stormwater management facilities design



500 SERIES

- 501 Repetitive Loss List
- 510 Floodplain Management Planning
- 520 Acquisitions and Relocations
- 530 Flood Protection
- 540 Drainage System Maintenance

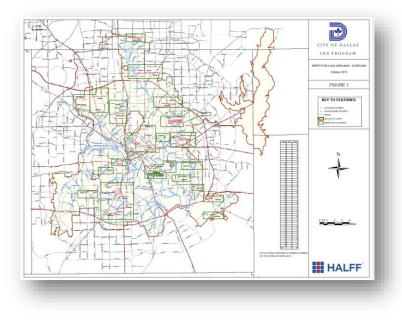


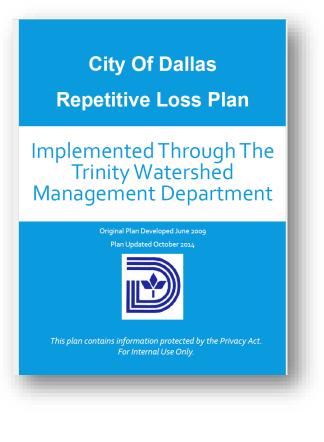
501 THE REPETITIVE LOSS LIST

OBJECT: TRACKING PROPERTIES WHICH HAVE MULTIPLE FLOOD INSURANCE CLAIMS

Repetitive Loss Plan

- Mitigation Strategy
- Repetitive Loss Area Analysis
- Repetitive Loss Inventory
- Repetitive Loss Maps
- Repetitive Loss Outreach
- Repetitive Loss Areas 1-44





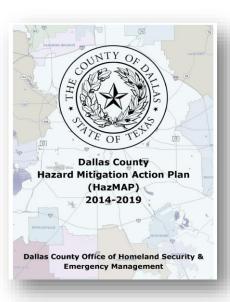


510 FLOODPLAIN MANAGEMENT PLANNING – 50 POINTS

OBJECT: CREDIT OVERALL STRATEGY TO REDUCE ADVERSE IMPACT OF THE HAZARD

Floodplain Management Planning (FMP)

- Step 1: Organize to prepare the plan
- Step 2: Involve the public
- Step 3: Coordinate
- Step 4: Assess the hazard
- Step 5: Assess the problem
- Step 6: Set goals
- Step 7: Review possible activities
- Step 8: Draft an action plan
- Step 9: Adopt the plan
- Step 10: Implement, evaluate, and revise
- Repetitive Loss Area Analysis (RLAA)
 - 2D Analysis on four Repetition Loss Areas
- Natural Floodplain Functions Plan (NFP)



June 10, 2014 AVO 29052, PH013

SENT VIA EMAIL: <u>implem parkoffickellustybelluse</u> Seere Parker, PE, CFM City of Dallas, Toiniy Watershed Management Department 320 E, Jefferson Room 307 Dullas, Tomes 25003.

ke: PH13 – Repetitive Loss Property Analysis - Area #33 (9321 Prairie Oak Drive, Dallas, TX 75217)

Dear Mr. Parker,

We have completed the evolution of flooding at 9321 Prinise Oak, Dullas, TX 75217 (Repetitive Loss Asses #33). This property has requirement multiple flood damages and flood loss dama in the part. This study fourced on ardening glood in at that property. The Repetitor Loss (RL) property is located in the Hafrald Enclut Winterball. Ethich is shown the location of the property along with the saving strems were typeins (Daled W Lass).

The term server plan for Asea #33 could not be located by Cay of Dallas staff. However, the locates dister for Asea #33 was provided. The locates dister theorem the size of the stemm server systems. Field recommittance was predicated to destimate distinge characteristics of the assa. Field surveys was performed by Grazzi Land Data, Ian. February 2014. The field surveys methoded the finished dose structures (FFE) of the assekinali internets on this property.

Toppoppide data crewing the project enter was obtained from Texts Shroul Berousse formation (SINI) 2000 (Lgb Creenson and Range (Lgb Char) Texns. In the for Dillin Court, Text. A cone-dimensional (1-2) and two-dimensional (2-2), XFSWAM model, we can be also also decay decay below more due are queries into project and the formation of the strained strained and the strained strained strained and the strained strain

The property is located north of Praisie Oak Drive, between Praisie Vitts Drive and Bratesrop Lane. A datch is located behind the property. The flow along the datch is drained by a 2.5 foot by 2.5 foot V-inlet and a 5 foot curb inlet. During the field trist, it was observed that these inlets were clogged.

During rain events wrate spills into the backyard of the property. The resident of property 9321 Praine Oak Dare, built a wood retaining will around their backyard 4 to 5 years ago to avoid floording from the dath. The resident said that inset why built the retaining wall, they have not had any flooding issues. Figure 1 shows the retaining wall.

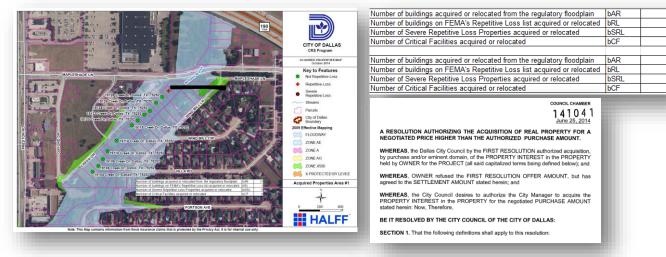
HALPF ASSOCIATES, INC. 12255 GREENVILLE AVENUE, BUTE 200 TEL. (20) 572-3272 DALLAS, TX 10143 FAX (24) 572-3273



520 ACQUSITION AND RELOCATION – 105 POINTS

OBJECT: CREDIT OVERALL STRATEGY TO REDUCE ADVERSE IMPACT OF THE HAZARD

- Buildings Acquired or Relocation (bAR)
- Buildings on the Repetitive Loss List (bRL)
- Severe Repetitive Loss Properties (bSRL)
- Critical Facilities (bCF)
- Buildings located in the V Zone or Coastal A Zone (bVZ)





530 FLOOD PROTECTION – 0 POINTS

OBJECT: RETROFIT BUILDINGS AND CONSTRUCT SMALL FLOOD CONTROL PROJECTS

- Flood Protection Project Technique Used (TU_)
- Flood Protection Improvement (FPI)
- Protected Buildings (PB)



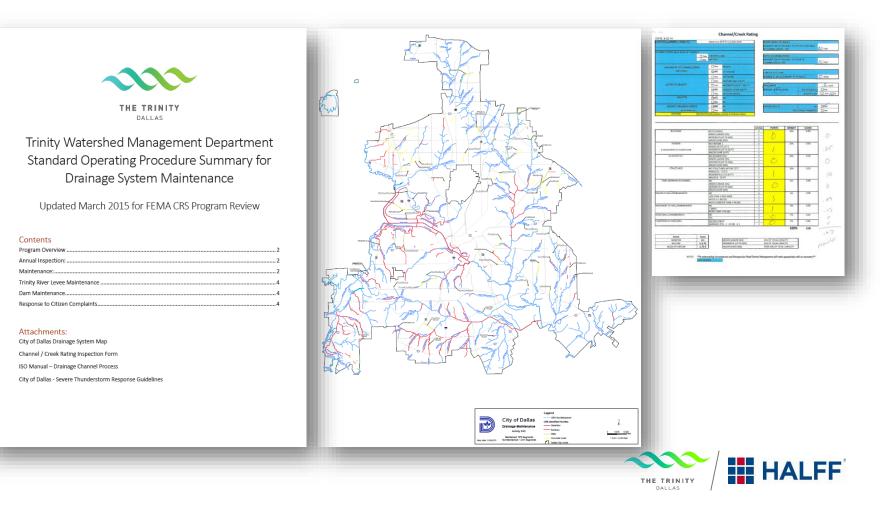
STREET NUMBER	STREET NAME	2001 EFFECTIVE WATER SURFACE ELEVATION	POST PROJECT 100 YEAR WATER SURFACE ELEVATION	DIFFERENC
6216	AUTUMN WOODS TRL	520.1	518.2	-1.9
6217	AUTUMN WOODS TRL	520.6	518.1	-2.4
6223	AUTUMN WOODS TRL	520.9	518.2	-2.7
1312	BAR HARBOR DR	527.6	523.0	-4.6
1320	BAR HARBOR DR	528.0	523.5	-4.5
6702	CLIFFWOOD DR	572.4	565.4	-6.9
6702	CLIFFWOOD DR	572.1	565.1	-7.0
2233	ELDEROAKS LN	558.0	553.0	-5.0
326	GLEN OAKS BLVD	496.2	490.8	-5.4
936	GLEN OAKS BLVD	509.4	503.4	-6.0
5905	HUNTERS VIEW LN	504.4	499.5	-4.9
5925	HUNTERS VIEW LN	505.3	499.7	-5.6
6507	PUTTING GREEN DR	527.5	523.6	-3.9
6303	ROCK CANYON TRL	521.3	519.2	-2.1
6307	ROCK CANYON TRL	522.1	519.4	-2.7
6311	ROCK CANYON TRL	522.1	519.5	-2.6
6316	ROCK CANYON TRL	521.5	519.7	-1.8
6317	ROCK CANYON TRL	522.3	519.7	-2.5
6321	ROCK CANYON TRL	522.5	520.0	-2.5
6331	ROCK CANYON TRL	522.6	521.1	-1.6
6337	ROCK CANYON TRL	522.7	521.2	-1.5
817	W RED BIRD LN	520.4	514.6	-5.8
823	W RED BIRD LN	520.4	514.8	-5.6



540 DRAINAGE SYSTEM MAINTENANCE – 265 POINTS

OBJECT: KEEP CHANNELS AND STORAGE BASIN CLEAR OF DEBRIS

Chanel Debris Removal (CDR)



540 DRAINAGE SYSTEM MAINTENANCE – 265 POINTS

OBJECT: KEEP CHANNELS AND STORAGE BASIN CLEAR OF DEBRIS

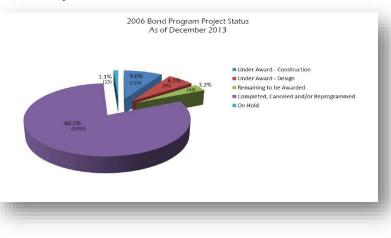
Problem Site Maintenance (PSM)

- Keep list of problem sites, inspect and maintain annually.
- Capital Improvement Program (CIP)
 - Bond program/Needs Inventory
- Stream Dumping Regulations (SDR)

(e) A person commits an offense if he discharges or causes to be discharged into the stormwater drainage system, waters of the United States, or state water a pollutant or substance that causes or contributes in causing the city to violate a water quality standard, the city's NPDES permit or TPDES permit, or any state-issued discharge permit for discharges from the city's stormwater drainage system.

(f) A person commits an offense if he discharges or allows or permits the discharge of any of the following into the stormwater drainage system:

- Oil, used oil, or any motor vehicle fluid.
- (2) Industrial waste.
- Hazardous waste, including household hazardous waste.
- (4) Domestic wastewater, septic tank waste, grease trap waste, or grit trap waste.
- (5) Garbage, rubbish, or yard waste.(6) Wastewater from:
- Storage Basin Maintenance (SBM)
- Coastal Erosion Protection Maintenance (EPM)





600 SERIES

- 610 Flood Warning and Response
- 620 Levees
- 630 Dams



610 FLOOD WARNING AND RESPONSE – 0 POINTS

OBJECT: IDENTIFY FLOOD THREAT, DISSEMINATE WARNINGS, FLOOD RESPONSE ACTIVITIES

- Flood Threat Recognition System (FTR)
 - Manual flood threat recognition systems
 - Correlated to the flood inundation map
- Emergency Warning Dissemination (EWD)
 - Flood Warning Sirens
- Flood Response Operations (FRO)
 - Action list at different flood levels
- Critical Facilities Planning (CFP)
 - Include Critical Facilities in Warning/Response Plan
- StormReady Community (SRC)
- TsunamiReady Community (TRC)



620 LEVEES – 0 POINTS

OBJECT: INSPECT AND MAINTAIN LEVEES, IDENTIFY FAILURE, DISSEMINTATE WARNINGS, RESPONSE

- Levee Maintenance (LM)
 - Levee Emergency Action Plan and Operations Manual
 - Annual Inspections
- Levee Failure Threat Recognition System (LFR)
 - Monitoring Flood/Levee Conditions
- Levee Failure Warning (LFW)
 - Warning Program
- Levee Failure Response Operations (LFO)
 - Levee failure response plan
- Levee Failure Critical Facilities Planning (LCF)
 - List of Facilities with names and numbers of operators



620 DAMS – 22 POINTS

OBJECT: INSPECT AND MAINTAIN DAMS, IDENTIFY FAILURE, DISSEMINTATE WARNINGS, RESPONSE

- State Dam Safety Program (SDS)
 - City has ten high hazard dams
- Dam Failure Threat Recognition System (DFR)
 - Primary/Secondary threat recognition
- Dam Failure Warning (DFW)
 - Warning Program
- Dam Failure Response Operations (DFO)
 - Dam Emergency Action Plan
- Dam Failure Critical Facilities Planning (DCF)
 - List of Facilities with names and numbers of operators



700 SERIES

- 710 County Growth Adjustments
- 720 Community Total Points



710 COUNTY GROWTH ADJUSTMENT – 22 POINTS

OBJECT: INCREASE CREDIT FOR MANAGING ACTIVITIES IN GROWING AREAS

- County 10-Year Growth Rate (CGR)
- Annual Growth Adjustment (AGA)
 - CGR converted to an annual growth rate
- County Growth Adjustment (CGA)
 - CGA is ten times the annual growth rate
 - Dallas County has a CGA of 1.15
- Credit for 400 series multiplied by CGA



720 TOTAL POINTS OBJECT: ASSIGN CRS CLASITIFCATION BASED ON SUM OF ALL ACTIVITIES

erified Activity Calculations: 310 86 320 90 330 200 340 15 350 58 360 55 370 0	Credit 86 90 200 15 58 55 0					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	71 1199 291		Table 110-1. CRS classes, credit points, and premium discounts.			
c440 179 x CGA 1.15 = c450 112 x CGA 1.15 =	206 129	CR	CRS Class	Credit Points (cT)	Premiun In SFHA	n Reduction Outside SFHA
51050 =	50		1	4,500+	45%	10%
$20 \boxed{105}_{0} = 30 \boxed{0}_{0} = 100 \boxed{0}_{0} = 100 $	<u>105</u> 0		2	4,000-4,499	40%	10%
40 265 =	265		3	3,500–3,999	35%	10%
10 0 =	0		4	3,000–3,499	30%	10%
20 0 =	0		5	2,500-2,999	25%	10%
30 22 =	22		6	2,000-2,499	20%	10%
			7	1,500–1,999	15%	5%
cT = total of above	cT =2842_		8	1,000–1,499	10%	5%
Community Classification (from Table 110-1):	Class = 5		9	500-999	5%	<mark>5%</mark>
	<u> </u>		10	0-499	0	0



DALLAS NEXT STEP

DRIVE TO CLASS 4

Class 4 Prerequisites

- The community must have received and continue to maintain a classification of 4/4 or better under the BCEGS.
- Activity 430 (Higher Regulatory Standards)
 - At least 100 points for FBR
 - At least 700 points under other elements of 430 and under 422 a, e, f and under Activity 420
- Activity 450 (Stormwater Management)
 - 90 points for meeting all criteria for WMP
 - 30 points for managing the runoff for all storms up to and including the 100-year event
 - Impact adjustment value of rWMP=0.5 or more.
- Activity 510 (Floodplain Management Planning)
 - Receive at least 50% of maximum credit under 510
- Obtain a minimum of 100 points from 420, 450, 510
- Obtain some credit under Activity 610 (Flood Warning and Response)



DALLAS NEXT STEP

DRIVE TO CLASS 4

Class 4 Prerequisites

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- Activity 510 (Floodplain Management Planning)
 - Receive at least 50% of maximum credit under 510
- Obtain a minimum of 100 points from 420, 450, 510
- Obtain some credit under Activity 610 (Flood Warning and Response)



Questions?

Steve Parker, PE, CFM City of Dallas <u>Stephen.parker@dallascityhall.com</u>

Sirak Bahta, PE City of Dallas <u>sirak.bahta@dallascityhall.com</u> Jack Young, PE, CFM Halff Associates jyoung@halff.com

