



**REQUEST FOR PROPOSAL ADDENDUM  
PURCHASING OFFICE  
CITY OF AUSTIN, TEXAS**

**REQUEST FOR PROPOSAL: SMW0127 ADDENDUM NO. 2 DATE OF ADDENDUM: February 26, 2015**

This addendum is to incorporate the following questions and answers:

**Q1: The City appears to be requesting the responder provide their own approach to address the Objectives. How does the City intend to review cost information such that there is an “apples to apples” comparison between responders?**

A1: Cost will be reviewed on a case-by-case basis. The City will not compare proposals to each other, but rather compare them to what was requested in the scope of work.

**Q2: Should cost information be provided in a manner that aligns costs with each specific Objective, and will cost be evaluated in the scoring per Objective or totaled?**

A2: Yes, costs should line up with their appropriate objective and proposers should total all costs.

**Q3: There appears to be overlap between Objectives 4.7, 4.8, and 4.9 in this SOO and SMW0126, Graphical User Interface for Flood Early Warning System. Should the responder to SMW0127 be able to address *all* Objectives, or could these three Objectives (4.7-4.9) be addressed by the firm selected for SMW0126?**

A3: There is some overlap between the objectives for the Flood Mapping and Modeling software (RFP SMW0127) and the Graphical User Interface for Flood Early Warning System (RFP SMW0126). The City reserves the right to pick and choose from each Contractor's proposal in order to create the optimal flood early warning system, meaning that a single Contractor's proposal could be combined with elements from another proposal.

**Q4: Do you have a map of the areas to be mapped?**

A4: Yes, the map is attached following these questions and answers.

**Q5: Would the City like to include any critical infrastructure?**

A5: We can provide a spatial file that details the locations of structures like bridges and their elevations, buildings and their FFE's, as well as whether the structure is critical infrastructure. Part of the response should include identifying what data you would need from us.

**Q6: Are there any dams to be included as a risk factor?**

A6: If the dam is part of the model, then we would need to include the dam in the model in order to create an accurate floodplain prediction.

**Q7: Would you like to include any back-water effects into the areas for mapping? An example would be a clogged bridge.**

A7: If a proposer has a mechanism for looking at backwater in a forecast model, he/she is urged to include it with his/her proposal. It is not a minimum standard; however a proposer should include anything above the minimum he/she feels would be beneficial to the City.

**Q8: The RFP mentioned an annual revision to the program. Are we to assume that the city would like an additional yearly proposal for those revisions?**

A8: If a proposer's models are to be "hosted" to run continuously in real time – and as a part of the proposer's solution, then the City will need to see the revisions, operating costs, or software fees.

**Q9: During the Q & A at the pre-proposal meeting, we heard statements that the City is not looking for engineering services, but rather for a vendor to provide software and training. Could you please confirm this?**

A9: That is correct. The City does not wish to contract professional services on this particular solicitation, but rather for the end deliverables. We understand an entity that does not already have software that meets this purpose may perform services to create the product the City seeks; however the City wishes to purchase the software with training services. For instance, currently, the City receives spatially-distributed 15-minute hyetographs from a radar vendor for all of Travis County. From that spatially distributed rainfall those are ingested into a model (Vflo). The model creates forecasts for the brown triangles (watchpoints in an earlier slide) every fifteen minutes. From those stage and flow hydrographs created every fifteen minutes, RainView as a service takes the peak stage and peak flow and time it occurs and ships that to us within an XML file. That XML file is then imported into our internal GIS servers that (similar to RAS mapping) takes those water surface elevations and creates a raster and an extent of flooding polygon. The attributes from the peak stage, flow, and time are displayed on our intranet site. We use a combination of processes: Gauge Adjusted Radar Rainfall, peaks from the stage and flow points from the Vflo models that we've developed for a series of watersheds; those are then imported into a GIS package that develops the forecast floodplain polygons. We need a system that will simplify this process.

**Q10: The City's Scope of Work, Section 4.5 states "Models must be calibrated...." Shall the bidder calibrate the models or will the City do this?**

A10: The City does not have a preference on this matter. Please state in your proposal what you believe to be the best practice.

**Q11: Will the contractor provide models or provide a framework for city staff to develop models?**

A11: The City seeks a general way of modeling. We are not looking for someone to build a model for every creek. We have data we have used to build models, and in most cases those are static models. We need a way to take data that we have and put it into a general model that creates output data that we can use in real time for flood warning. That said, if the software develops models on its own based on input information, we would not be opposed. While it is above and beyond the minimum standards set forth in the Scope of Work, the City is also not opposed to a software that assists in developing or calibrating the model.

**Q12: How much of the existing FEWS models do you anticipate being used?**

A12: The City seeks to use the same data: the same impervious cover data, the same soil information, the same cross sections for channel. We already had that information for the models we've developed from a variety of sources like FEMA models and other City of Austin datasets. We would be able to reuse that data. However, we would not expect an import tool that translates from one file type to another.

**Q13: Do you intend to use any part of your current modeling software?**

A13: Our base requirements are listed in the Scope of Work; however we do not state a preference on this subject. The City seeks the best proposed system at the best cost, be it a totally new system developing all the models from scratch or one that integrates our currently used products. We do expect that our current intranet flood mapping would not be useful in the future due to its limitations.

**Q14: Where are the latest versions of the watershed maps and floodplains?**

A14: A map of the watersheds is provided with this addendum. Currently, the floodplain models (our floodplains as defined by FEMA) are available through FEMA's website as well as the City's FloodPro website ([austintexas.gov/floodpro](http://austintexas.gov/floodpro)). The City's real time flood maps are currently not in a "shareable" format.

**Q15: Is the acronym "FEWS" specific to the City of Austin?**

A15: We are referring to the City of Austin Flood Early Warning System group.

**Q16: Are there any additional datasets for integration?**

A16: The City seeks a framework as opposed to someone actually building the models. For instance, if an entity has software that could calculate local flooding by use of a model of City of Austin storm water infrastructure, that entity should include that information in the proposal. Please let us know in your proposal if your system requires any additional information from the City.

**Q17: Do you work independently or do you share information with other entities or communities?**

A17: The City works with the Lower Colorado River Authority. LCRA has publicly available stream gauges and rain gauges. To the extent that something is publicly available and would improve the accuracy of the model, we would like to incorporate it.

**Q18: Do you need the capability to recalibrate the models?**

A18: There should be some type of interface so that a desktop user can perform calibration by importing historic storm events and comparing those against historic gauge data or high water marks.

**Q19: If I propose a new software package and models, and tell you it meets all the requirements listed, would I stop short of telling you my costs to create and calibrate the models?**

A19: We are looking for a cost for the system as opposed to the cost of professional services to later come back and perform calibration. Currently, the Contractor has a model and we use the model and input data into it, then give it back to the Contractor. We pay the Contractor to run the model, and then feed the data from the model back to the City.

**Q20: Should we include a consulting fee to actually build the model (over and above providing the framework for the model)?**

A20: The City seeks the framework, which may include ongoing fees for maintenance of the software and/or software upgrades, but the actual professional services in order to build the model is NOT part of this RFP. The City would like training, though. That it specifically indicated in the RFP. We need a fully integrated system that is a service [i.e. Software as a Service, or SaaS]. In other words, it runs continuously, rain or shine, it ingests real time rainfall that is occurring over Travis County as well as forecasted rainfall. Then produces a series of maps that include both extent as well as depth of flooding that can be applied over GIS or geospatial layers such as structures that might be at risk, be they bridges, critical facilities, residences, facilities where we have individuals with ambulatory issues. We want that incorporated into a complete package with this project. There would be some amount of model building required in order to show us how to use the product, but we are not expecting you to go and develop watershed models of the rest of the watersheds in Austin. We are NOT asking for engineering services. This is going to be a commodity with a service component. We are looking for a deliverable, rather than the intellectual services behind that deliverable.

**Q21: The software currently operates as an off-site service?**

A21: Yes.

**Q22: In this case, you are not looking for that type of solution in the future? Or are you open to that solution also?**

A22: Currently, the only portion that is hosted is the hydrologic/hydraulic models. The modeling package we use is Vflo. That is a model we obtain as a desktop version and we develop a watershed model for a specific watershed and we identify where we want to have forecasts. That model runs continuously taking in rainfall, so every fifteen minutes we get an update as a service. We are getting information back from that we feed into a GIS process that we run within the City of Austin network. We would like to be able to expand our mapping capabilities with a modeling package. We could run it on- or off-site, depending on the proposal. Right now, a portion is running on-site, and another portion is running off-site. The development of the models is done internally--The City develops those, and is responsible for adjusting those as needed over a period of time as they are calibrated.

**Q23: Does the city have an archive of data such as radar solutions, or would this be part of the solution?**

A23: Yes, we have an archive.

**Q24: Is the output from the developed model expected to be populated automatically as an input to the FEWS model or would manual data transfer be acceptable?**

A24: Manual data transfer would not be acceptable with the exception of developing the model and then manually upload the model to the server. If it is running on a mapping server that generates the inundation polygons, and manual transfer the inundation polygons somewhere else is necessary, that would not be acceptable.

**Q25: Are you comfortable now with the products you receive from the H&H modeling that you currently do, including the transfer of critical information into decision support products including forecast inundation services? If so, it seems the emphasis is on 1. the ability to integrate the existing tools and technology and information products**

**2. the key emphasis is on real-time, making sure the system can be fully real-time including all the integrated components, and 3. maintaining states and do much better with forecasting, not just what's happening now but what will happen in the near future, as far as the ability to develop decision support products.**

**Those 3 points are key, and you would most likely be comfortable maintaining or keeping the technical components that you currently operate including the H&H and geospatial aspects of the system? If not, what are the key features of the current approach that you are not entirely happy with and where you would like to see some improvements made?**

A25: The biggest limitation for our current modeling solution is that we have software that generates stage and flow information at certain points but that same software package does not display the inundation polygons. It generates an XML file that a different, in-house software package uses to show the inundation polygons.

The biggest limitations are that 1. we have one software package that performs one task, that then information – which is not all of the information we desire, such as flooded structure count, ability to view historical data, or do after-action reports using inundation polygons generated - is sent somewhere else. There are some things the current system does well and some things we would like to see improved with this RFP process. Those limitations would be fixed by providing more actionable information: intersecting the inundation with other data sources such as bridge heights, structure finished floor elevations, potentially census data with population. We would like to see actionable data rather than just a map of a shape of a polygon.

**The due date for questions has been extended to Monday, March 2, 2015 at 5:00 PM Central.**

**The Bid Due Prior To: and Public Bid Opening: dates have been extended to Thursday, March 26, 2015 at 3:00 PM.**

**The sign-in sheet from the Pre-Proposal meeting is attached to this document.**

All other terms and conditions remain the same.

BY THE SIGNATURES affixed below, this Addendum is hereby incorporated and made a part of the above-referenced Solicitation.

**APPROVED BY:**

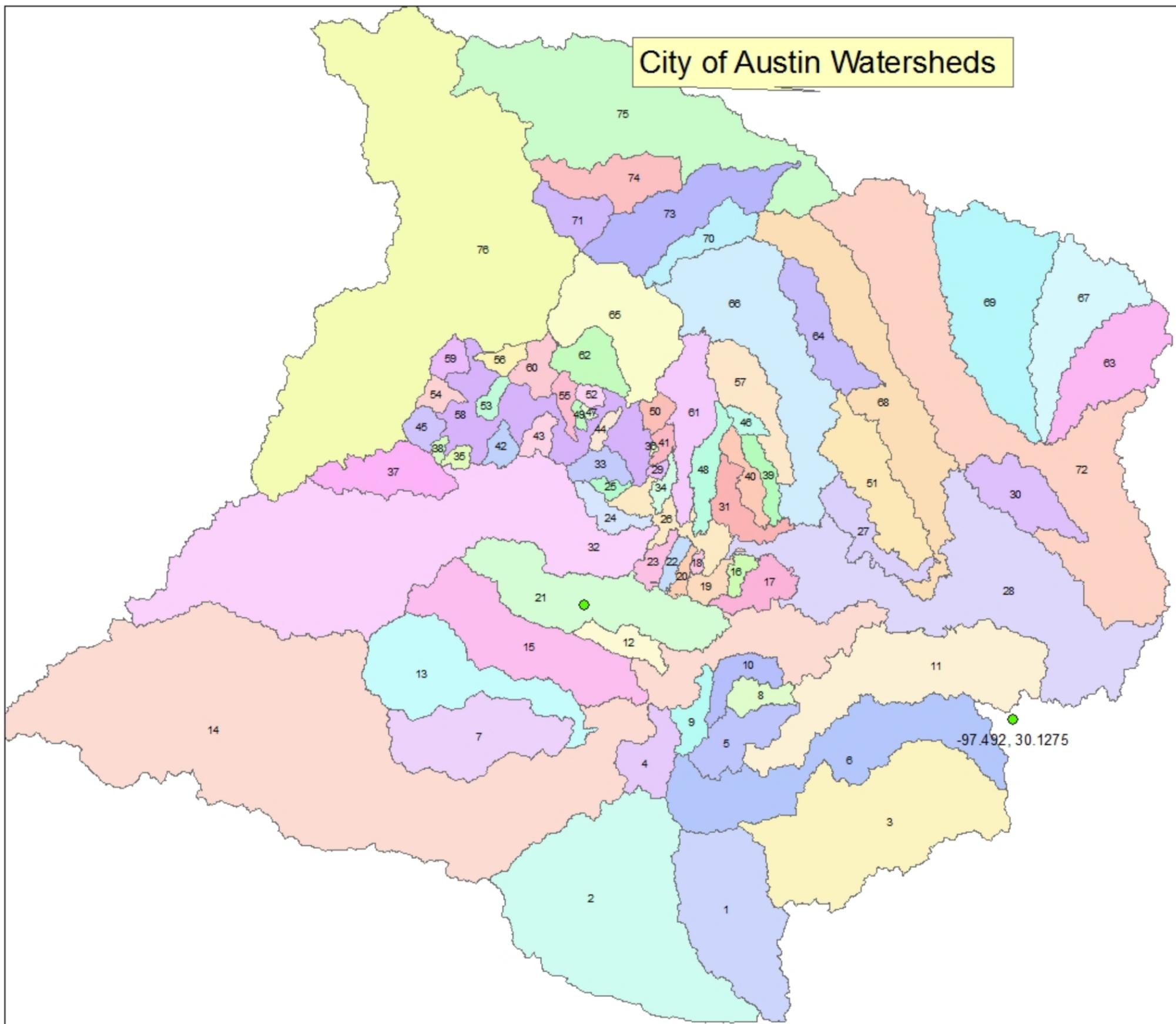
**Paige McDonald, Senior Buyer**  
Purchasing Office, 512-974-2076

**ACKNOWLEDGED BY:**

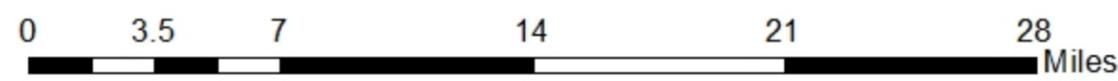
_____	_____	_____
<b>SUPPLIER</b>	<b>AUTHORIZED SIGNATURE</b>	<b>DATE</b>

**RETURN ONE (1) COPY OF THIS ADDENDUM TO THE PURCHASING OFFICE, CITY OF AUSTIN, PRIOR TO BID OPENING OR WITH YOUR SEALED BID. FAILURE TO DO SO MAY CONSTITUTE GROUNDS FOR REJECTION OF YOUR OFFER.**

# City of Austin Watersheds



MapID	DCM CODE	DCM NAME
1	ELS	Elm Creek South
2	PLM	Plum Creek
3	CDR	Cedar Creek
4	RIN	Rinard Creek
5	SFD	South Fork Dry Creek
6	MAH	Maha Creek
7	LBR	Little Bear Creek
8	NFD	North Fork Dry Creek
9	MAR	Marble Creek
10	CTM	Cottonmouth Creek
12	SBG	South Boggy Creek
13	BER	Bear Creek
14	ONI	Onion Creek
15	SIA	Slaughter Creek
16	OCE	Country Club East
17	CAR	Carson Creek
18	HRP	Harper's Branch
19	CCW	Country Club West
20	BLU	Blunn Creek
21	WMS	Williamson Creek
22	EBO	East Bouldin Creek
23	WBO	West Bouldin Creek
24	EAN	Eanes Creek
25	LBE	Little Bee Creek
26	TWN	Town Lake
27	ELM	Elm Creek
28	COL	Colorado River
29	TYS	Taylor Slough South
30	LOC	Lodowick Creek
31	BOG	Boggy Creek
32	BAR	Barton Creek
34	JOH	Johnson Creek
35	BEE	Bee Creek
35	BOH	Bohls Hollow
37	LBA	Little Barton Creek
36	HUK	Huck's Slough
38	CED	Cedar Hollow
39	FOR	Fort Branch
40	TAN	Tannehill Branch
41	TYN	Taylor Slough North
42	CMF	Commons Ford Creek
43	CRN	Cuernavaca Creek
44	STP	St. Stephens Creek
45	HNY	Honey Creek
46	BMK	Buttermilk Branch
47	HOG	Hog Pen Creek
48	WLR	Waller Creek
49	CNR	Connors Creek
50	DRN	Dry Creek North
51	DKR	Decker Creek
52	CWR	Coldwater Creek
53	STN	Steiner Creek
54	HRN	Harrison Hollow
55	TRK	Turkey Creek
56	BRW	Bear Creek West
57	LWA	Little Walnut Creek
58	LKA	Lake Austin
60	PAN	Panther Hollow
59	RDR	Running Deer Creek
61	SHL	Shoal Creek
62	WBL	West Bull Creek
63	DNE	Dry Creek NE
64	HRS	Harris Branch
65	BUL	Bull Creek
66	WLN	Walnut Creek
67	WLW	Willow Creek
68	GIL	Gilleland Creek
69	CTW	Cottonwood Creek
70	RAT	Rattan Creek
72	WLB	Willbarger Creek
71	BCP	Buttercup Creek
73	LKC	Lake Creek
74	SBR	South Brushy Creek
75	BRU	Brushy Creek
76	LKT	Lake Travis
11	DRE	Dry Creek East



## PURCHASING OFFICE MEETING SIGN-IN SHEET

RFP & Description: RFP SMW0127, Hydrologic/Hydraulic Flood Forecasting Modeling and Mapping Software

Meeting Date: 2/18/15

Buyer: Paige McDonald,  
Senior Buyer

Place/Room: CTECC  
/EOC

Please Print Legibly

Name	Company/Agency/Dept.	Phone	Email
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Baxter Vioux	Vioux Inc.	512-826-2604	baxter.vioux@viouxinc.com
BAUSTIN AUSTIN	Aqua Strategies Inc.	407-254-3796	baustin@aquastrategies.com
Cate Richards	IBM	512-657-2940	carrick@us.ibm.com
ANDY ROBE	AMR CONSULTS	426-661-2180	ANDREW.ROBE@AMRCONSULTS.COM
Blake Kellum	One Rain Inc		blake.kellum@onera.in.com

## PURCHASING OFFICE MEETING SIGN-IN SHEET

RFP & Description: RFP SMW0127, Hydrologic/Hydraulic Flood Forecasting Modeling and Mapping Software

Meeting Date:  
2/18/15

Buyer: Paige McDonald,  
Senior Buyer

Place/Room: CTECC  
/EOC

Please Print Legibly

Name	Company/Agency/Dept.	Phone	Email
Al Huska	Water P Moore	512-330-1297	ahuska@waterpmore.com
Celena Schadeldelee	Transloyant	775-6022 512-312	celena.schadeldelee@transloyant.com
DANE HOLBROOK	COOPER CONSULTING	695-7006 512	daneholbrook@cooperconsulting.com
Ernest To	RPS	526-5559	Ernest.To@rpsgroup.com
Adam Koransky	Tachys	512-314-3149	adam.koransky@tachys.com
Jens Rocks	KISTERS	303-953-9991	jens.rocks@kisters.net
Gregg Rottor	Anything weather	760-459-2079	gregg@anythingweather.com
Kevin Shunk	COA WPD	974-9176	kevin.shunk@coawpd.com
STEFAN SAUSTER	MWH/DHI	512-659-9463	STEFAN.SAUSTER@MWHGLOBAL.COM
Tim Martin	RiverSide		
Eric Stewart	HDR	512-912-5115	eric.stewart@HDRinc.com
Anthony Henry	HDR	512-912-5112	anthony.henry@HDRinc.com
Heather Harris	CH2M HILL	512-249-3327	heather.harris@ch2m.com

## PURCHASING OFFICE MEETING SIGN-IN SHEET

**RFP & Description:** RFP SMW0127, Hydrologic/Hydraulic Flood Forecasting Modeling and Mapping Software

**Meeting Date:** 2/18/15

**Buyer:** Paige McDonald,  
Senior Buyer

**Place/Room:** CTECC  
/EOC

Please Print Legibly			
Name	Company/Agency/Dept.	Phone	Email
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Duke Atkinson	RPS	512/21713173	dukeatkinson@rpsgroup.com
Georgia Billela	COA-Purchasing	512-974-2939	georgia.billela@dukeatkinson.com

## PURCHASING OFFICE MEETING SIGN-IN SHEET – VIRTUAL ATTENDEES

<b>RFP &amp; Description:</b> RFP SMW0127 Mapping and Modeling Software	<b>Meeting Date:</b> 2/18/15
<b>Buyer:</b> Paige McDonald	<b>Place/Room:</b>

**Please Print Legibly**

Name	Company/Agency/Dept.	Phone	Email
Phillip M Kastelic	DHI Group		<a href="mailto:pmk@dhigroup.com">pmk@dhigroup.com</a>
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Ryan	Vieux Inc	405-325-1818	<a href="mailto:ryan@vieuxinc.com">ryan@vieuxinc.com</a>
Brain	Vieux Inc	405-325-1818	<a href="mailto:brian@vieuxinc.com">brian@vieuxinc.com</a>
Adam	Vieux Inc	405-325-1818	<a href="mailto:adam@vieuxinc.com">adam@vieuxinc.com</a>
Rosemarie O’Connell	OneRain	800-758-7246	<a href="mailto:rosemarie.oconnell@onerain.com">rosemarie.oconnell@onerain.com</a>
Stefan Schuster	MWH Global	512-635-9463	<a href="mailto:Stefan.schuster@mwhglobal.com">Stefan.schuster@mwhglobal.com</a>

# Flood Forecasting, Mapping, and Modeling Statement of Objectives

Tomas Rodriguez, P.E., CFM | Matt Porcher, CFM  
Susan Janek, P.E., CFM | Kevin Shunk, P.E., CFM

02.18.2015



# Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Discussion of Current FEWS Mapping Software
- Objectives for new FEWS Mapping Software Solution
- Questions

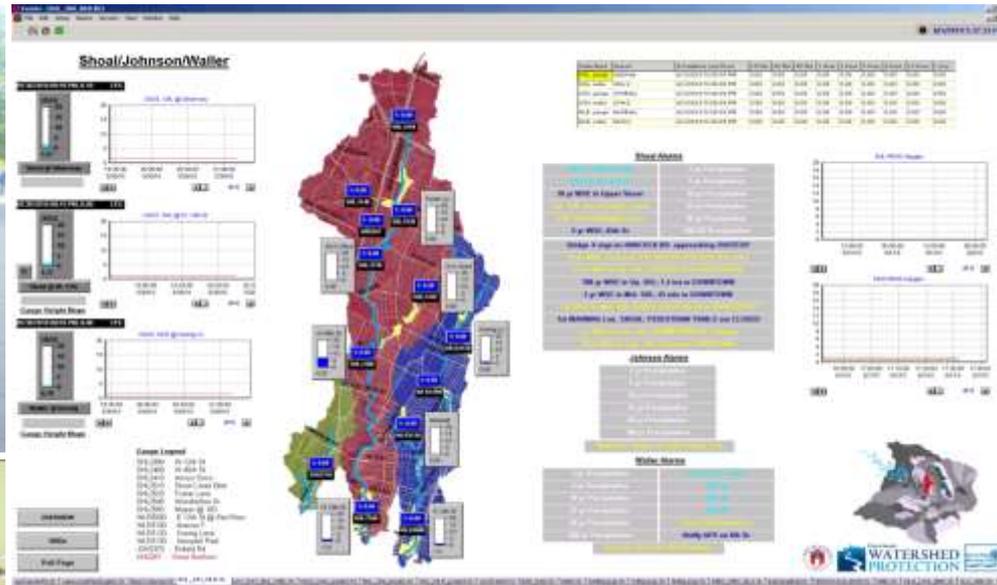
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# The City of Austin Flood Early Warning System



# The City of Austin Flood Early Warning System



# The Halloween Flood

## 10.31.2013



Credit: Reagan Hackleman

# Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Discussion of Current FEWS Mapping Software
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- Questions

# 3 RFPs

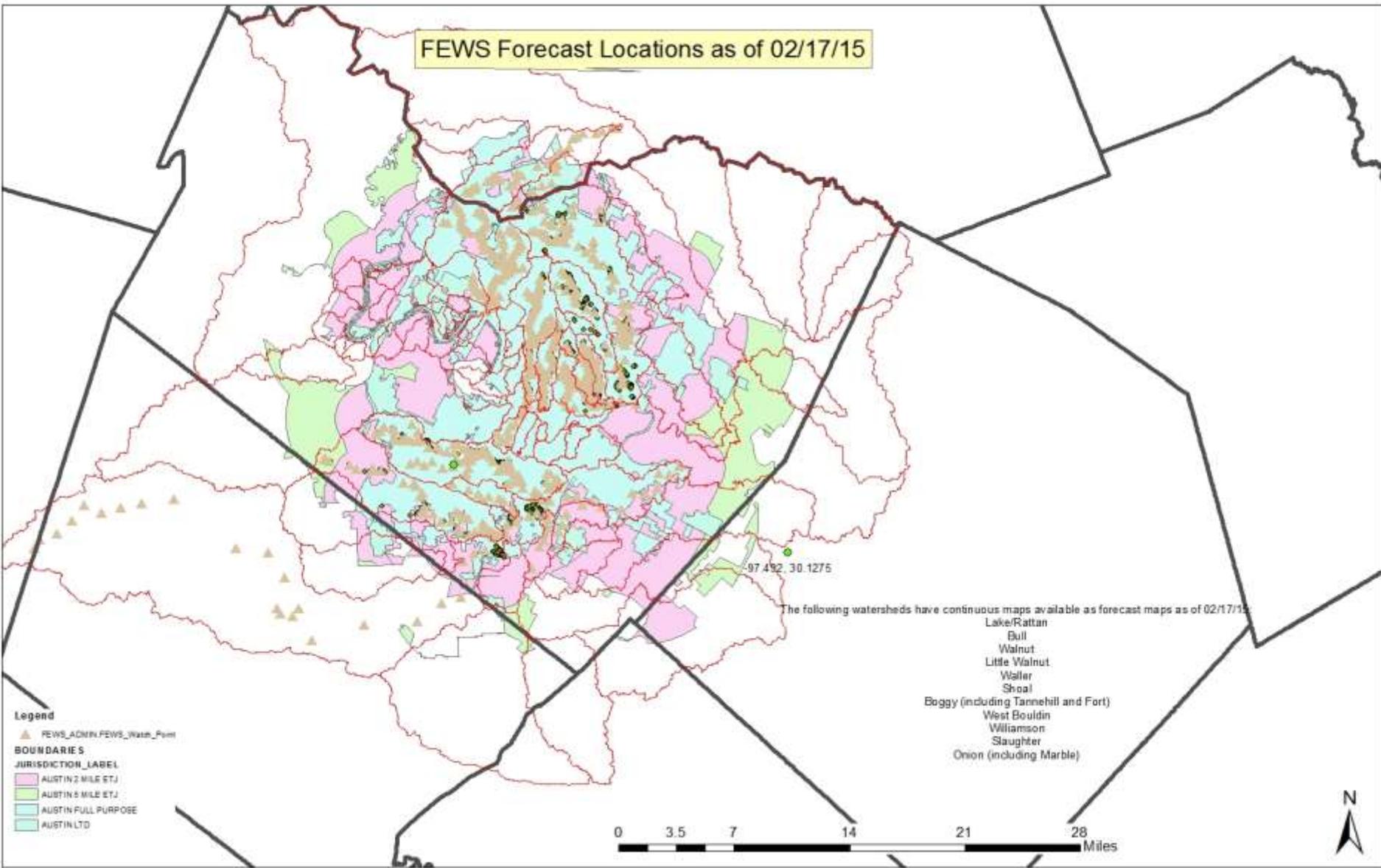
- In response to the Corrective Action Plan (CAP) for the Halloween Flood
- 3 interrelated RFPs
  - Common Operating Picture
  - Flood Forecasting, Mapping, and Modeling
  - Flood Cameras
- The City reserves the right to make multiple awards

# Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Discussion of Current FEWS Mapping Software
- Objectives for new FEWS Mapping Software Solution
- Questions



# FEWS Forecast Locations as of 02/17/15



- Legend**
- ▲ FEWS\_ADMIN.FEWS\_Water\_Point
  - BOUNDARIES**
  - JURISDICTION\_LABEL**
  - AUSTIN 2 MILE ETJ
  - AUSTIN 5 MILE ETJ
  - AUSTIN FULL PURPOSE
  - AUSTIN LTD

The following watersheds have continuous maps available as forecast maps as of 02/17/15:

- Lake/Rattan
- Bull
- Walnut
- Little Walnut
- Waller
- Shoal
- Boggy (including Tannehill and Fort)
- West Bouldin
- Williamson
- Slaughter
- Onion (including Marble)





**WATERSHED  
PROTECTION**

Packet Time: 10:45 AM 2/17/15

Processed Time: 10:47 AM 2/17/15

**FEWS Mapping**

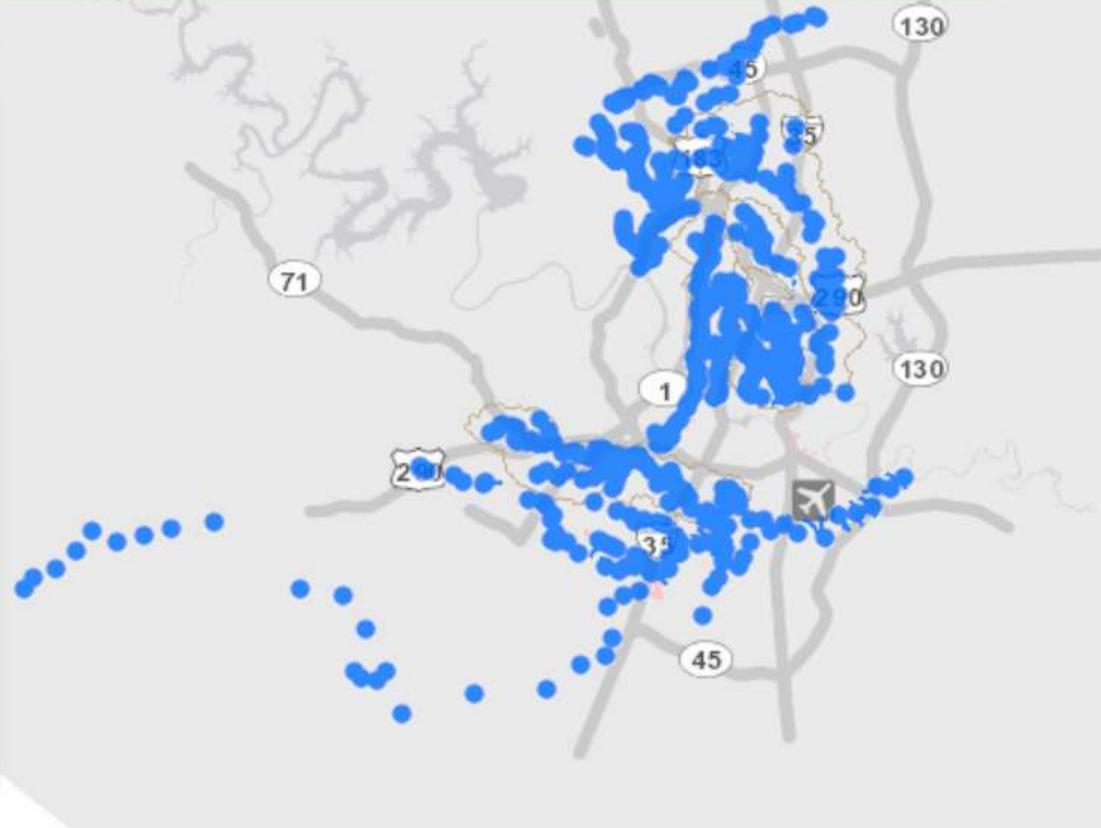
Address

Search

Identify

Streets  Imagery

- Watch Points
  - STATUS
  - Flood
  - Watch
  - Normal
- Cross Sections
  - STATUS
  - Flood
  - Watch
  - Normal
  - <Null>
- Predicted Inundation
  -
- ENS Areas
  -
- Watershed
  -
- MAPSCO Grid
  -



Current Intranet Forecast Mapping Service

# Limitations of FEWS Current Forecast Mapping

- No history/ability to review floodplain predictions
- No flooded structure count
- Difficult to share information (e.g. maps and structure counts) with first responders
- Only takes into account rain that has already fallen (does not factor in predicted rainfall)

# Outline

- The City of Austin Flood Early Warning System
- 3 RFPs
- Discussion of Current FEWS Mapping Software
- Objectives for new FEWS Mapping Software Solution
- Questions

# Purpose

The City is seeking qualified firms or agencies to provide real-time mapping and modeling services using forecasted rainfall, gauge-adjusted radar rainfall, and real-time National Weather Service rainfall into a single integrated solution.

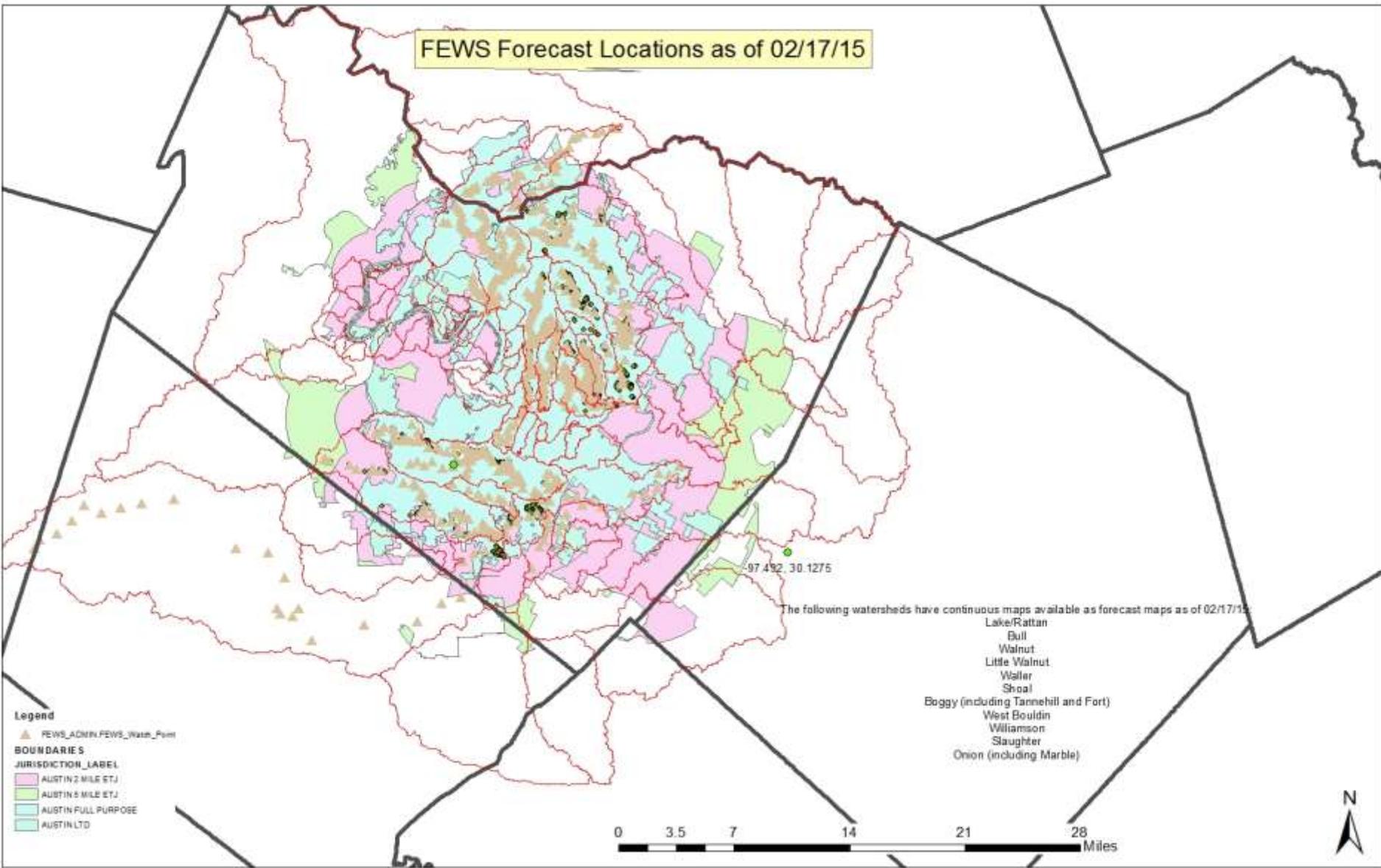
# Objectives

4.1. Forecast modeling and mapping shall be performed as a service with outputs available for import into FEWS graphical user interface (or Common Operating Picture).

# Objectives

4.2. Forecast modeling and mapping shall run in real-time using data from gauge-adjusted radar rainfall, National Weather Service rainfall, and forecast rainfall (from public or private source) and provide accurate stage and flow hydrographs at locations specified by the City.

# FEWS Forecast Locations as of 02/17/15



- Legend**
- ▲ FEWS\_ADMIN.FEWS\_Water\_Point
  - BOUNDARIES**
  - JURISDICTION\_LABEL**
  - AUSTIN 2 MILE ETJ
  - AUSTIN 5 MILE ETJ
  - AUSTIN FULL PURPOSE
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- West Bouldin
- Williamson
- Slaughter
- Onion (including Marble)



# Objectives



4.3. Maps from the output of forecast hydrologic and hydraulic modeling shall be immediately imported into a service (e.g. the FEWS graphical user interface) for use by first responders.

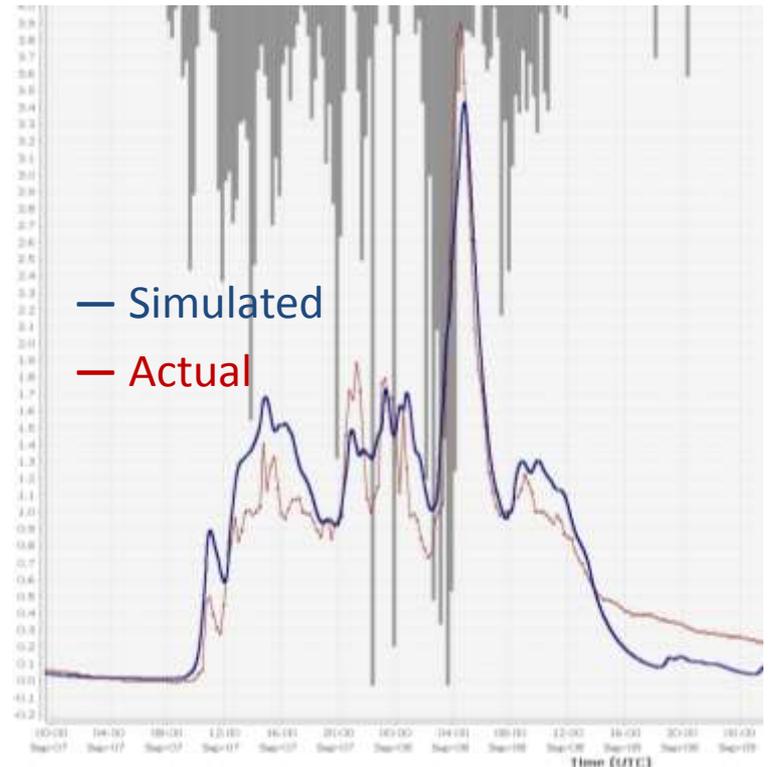
# Objectives



- 4.4 Maps should include the following :
- 4.4.1 Date/time, extent, and depth of flooding
  - 4.4.2 Numbers of structures at risk
  - 4.4.3 Estimate of depth of flooding and damage cost estimate (using TCAD appraisal information)
  - 4.4.4 Number of people flooded (census estimate) and individuals with ambulatory issues (STEAR)
  - 4.4.5 Location of roadways anticipated to flood

# Objectives

4.5. Models must be calibrated to existing full range rating stations provided by USGS (estimated Pearson correlation coefficient between 0.9 and 0.99)



# Objectives

4.6. Models must account for ambient soil moisture conditions and evapotranspiration rates for the Austin, Texas area

# Objectives

4.7. Procedures for upgrades and the addition of new models or model updates must be provided

# Objectives

4.8. There must be a desktop user model available for model calibration and model updates and must present an option for City staff to develop the models or for the Proposer to develop and update the models. The desktop user model must have a seamless interface for the importation of rainfall products (for model calibration/verification).

# Objectives

4.9. The model must run continuously and provide forecasts up to 12 hours in advance based upon NWS forecast rainfall models or greater depending on forecast rainfall information available.

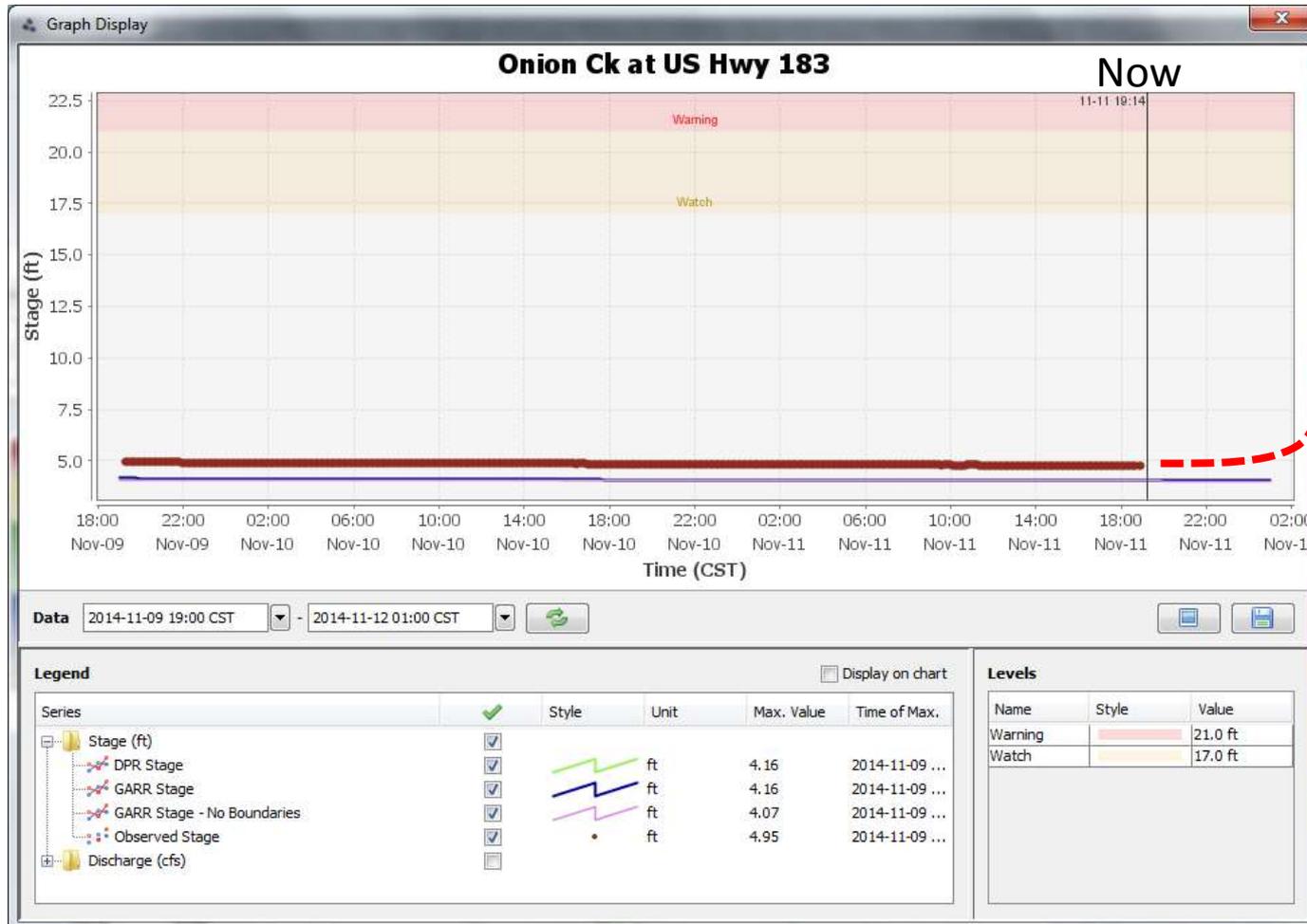
# Objectives

## HRRR Composite Reflectivity

Run Time: 20 Oct 2014 - 17Z      Number Runs: 5     

ValidTime ModelRUN	20/17z	20/18z	20/19z	20/20z	20/21z	20/22z
LOOP Not Available for 20/17z	20/17z 00 HR FCST Not Available	20/17z 01 HR FCST Not Available	20/17z 02 HR FCST Not Available	20/17z 03 HR FCST Not Available	20/17z 04 HR FCST Not Available	20/17z 05 HR FCST Not Available
20/16z loop						
20/15z loop						
20/14z loop						
20/13z loop						
ValidTime ModelRUN	20/17z	20/18z	20/19z	20/20z	20/21z	20/22z

# Objectives



# Questions?

1. What areas of the city should be included?

*Modeling should include watersheds with any part within the City of Austin*

2. Would the city like to include any critical infrastructure? Critical infrastructure should be protected from the 500-year storm, and includes hospitals, police and fire stations.

*We can provide a spatial file showing bridges (and their elevations) and footprints of structures (including FFE and whether the structure is critical infrastructure).*

3. Are there any dams to be included as a risk factor?

*Dams should not be included as a risk factor but should be incorporated as part of the model.*

4. Would you like to include any back-water effects into the areas for mapping?

*While it is not required, we would certainly be interested in seeing back-water effects as part of the model.*

5. The RFP mentioned an annual revision to the program. Are we to assume that the city would like an additional yearly proposal for those revisions?

*If the models are to be hosted as part of the proposed solution, then we would need to see annual fees as part of a proposal.*

