SOAH DOCKET NO. 582-15-2082
TCEQ DOCKET NO. 2015-0069-MSW

APPLICATION OF 130 ENVIRONMENTAL PARK, LLC FOR PROPOSED PERMIT NO. 2383	§ § § §	**BEFORE THE STATE OFFICE OF ADMINISTRATIVE HEARINGS**

PROTESTANTS' EXHIBIT 4

PREFILED TESTIMONY OF

LESLIE HOLDER

ON BEHALF OF PROTESTANT EPICC

TABLE OF CONTENTS

INDEX OF EXHIBITS

Exhibit No.	Description
Exhibit 4-A	Email dated April 6, 2016 (with attachments)

I. INTRODUCTION

Q: Please state your name.

A: Leslie Holder.

Q: Please state your address.

A: 575 Comanche Way, Dale, Texas 78616.

Q: Please describe your occupation.

A: Legal Administrative Assistant.

Q: Are you a member of the organization Environmental Protection in the Interest of Caldwell County, or EPICC?

A: Yes.

Q: What is the mission of EPICC?

A: To promote the protection of the environment and quality of life in Caldwell County for ours and future generations.

Q: Please explain your role, if any, with the organization.

A: I am a board member of EPICC and participate in all board meetings and activities by the organization. I am also webmaster of the EPICC website. My duties are to manage the website and to respond to any comments, questions or requests that may be posted on the website such as requests for yard signs, to sign petitions and become members.

II. SUMMARY OF CONCERNS REGARDING PROPOSED LANDFILL

Q: As a board member, are you familiar with the concerns of EPICC regarding 130 Environmental Park's application for a landfill permit?

A: Yes.

Q: How are you familiar with the concerns of EPICC?

A: I became a member of EPICC in late 2013. I was also involved in the formation of EPICC as a non-profit organization and then later was elected to the position of Treasurer. Shortly after that I assumed the duties of webmaster.

Q: Please describe EPICC's overall concerns with the application for the landfill permit.

A: Threat to Residents Living in the Vicinity of the Landfill. My family and I live less than five miles from the proposed landfill site. And EPICC is comprised of many landowners who also reside within close proximity of the landfill site and in fact, whose property is adjacent to or across the street. EPICC's fears are based on extensive research by its members, and we have concluded that this landfill would adversely affect not only the health of people and livestock, but could put lives in danger. Ann Collier who lives directly across the street from the landfill site, already suffers with respiratory ailments. With her compromised immune system, her health issues could be exacerbated by emissions from the landfill..

Traffic. Based on our research, we (EPICC members) have learned that the intersection at FM1185 and Hwy. 183 is considered to be one of the deadliest intersections in the State of Texas. [does she have a source for this?] The speed limit along Hwy. 183 is 60 miles per hour. As one approaches the entrance to the landfill site traveling north along Hwy. 183, visibility suddenly drops off because the road slopes downward. Therefore, garbage trucks exiting and entering the

highway would not be immediately visible until drivers come over the rise. I have personally travelled along this stretch of the road on many, many occasions, and am quite familiar with the slope of the highway and the visibility issues in this area. Vehicles traveling at 60 miles per hour, coupled with slow-moving garbage trucks entering and exiting the highway is a recipe for disaster. Eventually hundreds of garbage trucks would be required to access the landfill, so I'm concerned about the potential for an increase in serious traffic accidents.

Floodplain/Flooding. The potential for flooding exists as a large portion of this site is a floodplain. I have personally driven past this site after a heavy rain and have not only seen water gushing directly from the site, but have seen standing water on the site for weeks after a heavy rain. I, and members of EPICC, are concerned that the development of the landfill will result in an increase in the potential for even greater flooding. Also, because the access road to the landfill would have to cross a floodplain, I'm concerned about accessibility during major rain events. What if there is an emergency at the landfill during a flooding event, and the road becomes inaccessible? Contamination of the nearby aquifers is another major concern for members of EPICC. If the risk of contaminating our aquifers exists - however small that risk may be - then that risk needs to be eliminated. It's not worth it.

Trash Pile. It's my understanding that 130 Environmental Park intends to pile the trash on top of the ground to an eventual height of 175 feet high. It would be the highest manmade structure in the county. The obvious concern here is the

potential for contaminants to migrate from the landfill site through the air, . On windy days, trash could be blown for miles, in addition to the smell of rotting, toxic trash. If 130 Environmental Park decides to use alternative daily cover, instead of soil cover, which is an option they have left open in their application, then, the potential for windblown waste and odors would almost certainly increase. Finally, I am concerned about scavenging at the landfill site—scavenging by rodents, feral hogs, and birds. Feral hogs are a real problem in this area, and it is almost impossible to keep feral hogs out of one's property.

Economic Suicide. Putting a landfill at this location where the potential for the greatest growth exists is economic suicide for Lockhart. Austin is one of the fastest growing cities in the United States and so Caldwell County is destined to benefit from this growth but only if we don't put a 175' high pile of unsightly trash at the north entrance to Lockhart. Property values will decrease and the kind of businesses that would positively add to our community, will choose to go elsewhere.

Representatives for 130 Environmental Park have publicly stated that that properties in the vicinity of this landfill would actually increase in value, with no support for this claim at all. This shows this company's brashness to make ridiculously false statements on record and assume that Caldwell County residents are so ignorant and uninformed that we will believe them.

Q: Are your concerns similar to those of EPICC as you understand the concerns of the officers and members of the organization?

A: Yes.

Q: What is the basis for your and EPICC's concerns?

A:

For one, Feather Wilson, a geologist with the Plum Creek Conservation District, has publicly stated that this is not a good place for a landfill, and the existence of so much water at this site, such as floodplain, aquifers, and creeks, confirms this is true. Also, our concern about the suitability of the subsurface soils at the proposed landfill site, and their potential to transmit contaminants, has been verified by a gentleman who is a senior geologist with NRCS. He became aware of EPICC's fight against this landfill through information posted on our website. Thereafter he reached out to us by email and sent us photos, maps, and other data, along with his impressions about the site. He acknowledged that the site includes permeable soils and even the existence of a fault line that runs directly through the area.

Q: Can you please identify what is marked as Exhibit 4-A?

A: Yes, this is an e-mail from early April 2016 that was received through EPICC's email.

Q: Can you briefly describe the content of the letter and how it relates to the concerns of EPICC?

A: First let me say that I am not a geologist or an expert on topics related to the subsurface; however, this letter states that the subsurface of the proposed landfill site is not conducive for a municipal solid waste landfill. The individual writes, and I quote: "There are lenses of sand within this unit that have permeability. This

means leachate has pathways to enter the subsurface. Further, there is faulting in the area. This means there is high angle to vertical fracturing that further increases permeability." This statement reinforces what other EPICC members and local landowners have been saying throughout this landfill permitting process. He also included photos of soil samples from holes he drilled in the spillway for the dam. He noted that the soils in the photographs indicate permeable zones.

PROTESTANTS OFFER EXHIBIT 4-A

III. CONCLUSION

Q: What are you asking the Commission to do with this application?

A: Deny it.

Q: Does this conclude your testimony?

A: Yes, although I reserve the right to supplement this testimony.

Gmail
by Google

Email from NRCS geologist

1 message

— On Thu, 4/7/16, Moffatt, Bryan - NRCS, Fort Worth, TX <Bryan.Moffatt@ftw.usda.gov> wrote:

> From: Moffatt, Bryan - NRCS, Fort Worth, TX <Bryan.Moffatt@ftw.usda.gov>
> Subject: RE: Some Maps to Look At
> To: "EPICC TX" <epicc183@yahoo.com>
> Date: Thursday, April 7, 2016, 10:55 AM
> Leslie,
>
> I did not attach the maps on
> purpose. I wanted a response to verify the e-mail address
> was legitimate.
>
> Attached
> are the maps. Take a close look at the geologic outcrop map.
> Besides the Leona outcropping on the site so does the Midway
> Group The Midway is described as: (see: http://mrdata.usgs.gov/geology/state/sgmc-unit.php?unit=TXPNmi%3B0
>)
>
> There are lenses of
> sand within this unit that have permeability. This means
> leachate has pathways to enter the subsurface. Further,
> there is faulting in the area. This means there is high
> angle to vertical fracturing that further increases
> permeability.
>
> Look at
> photos P1192, P1197 and P1201. Note the orange color. This
> is iron staining. It is deposited in permeable zones that
> has intermittent water passing thru depositing iron that is
> in solution. The deposited iron from the water passing thru
> oxidizes i.e. the orange color. In 2014 I drilled 7 holes in
> the Auxiliary Spillway to obtain samples for engineering
> design work. This is where the photos can from. Additional
> work is planned for this site. No date has been set as of
> now.
>
> Please keep the
> attached private. Do not post it. Thanks!
>
> Bryan
>
> ——Original Message——
> From: EPICC TX [mailto:epicc183@yahoo.com]
> Sent: Thursday, April 07, 2016 10:02 AM
> To: Moffatt, Bryan - NRCS, Fort Worth, TX
> <Bryan.Moffatt@ftw.usda.gov>
> Subject: Re: Some Maps to Look At
>
> Understood. Thank you for
> this information, Mr. Moffatt.
>
> You reference maps in the subject line... did
> you intend to attach them?
>
> Thank you.
> Leslie
>
> ————————————————————
> On Wed, 4/6/16, Moffatt, Bryan - NRCS, Fort
> Worth, TX <Bryan.Moffatt@ftw.usda.gov>
> wrote:
>
> Subject: Some Maps
> to Look At
> To: "epicc183@yahoo.com"
> <epicc183@yahoo.com>
> Date: Wednesday, April 6, 2016, 4:27 PM
>
>

> You can tell
> from my
> e-mail address and salutation below
> why I don't want publicity. What I say is personal and
> in no way represents the NRCS.
>
> The Plum Creek 21 FCS is
>
> slated for upgrade because of hazard classification. The
> planned upgrade of the flood control structure (dam) has
> nothing to, do with the proposed dump site
>
>
> Bryan S.
> Moffatt PG
> 2887 Geological Services Unit
> Senior State Geologist
>
> USDA – NRCS
> Fort Worth,
> Texas
> 817.233.6268
>
>
> This electronic message
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> sender and delete the email immediately.
>

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9 attachments

Plum_Creek_21_Topographic_Location_Map sm.pdf
350K

Geologic Outcrop Map.pdf
1488K

Plum_Creek_21_Aerial_Photo_Location_Map sm.pdf
478K

Plum Creek 21 Soils Map and Properties.pdf
1178K

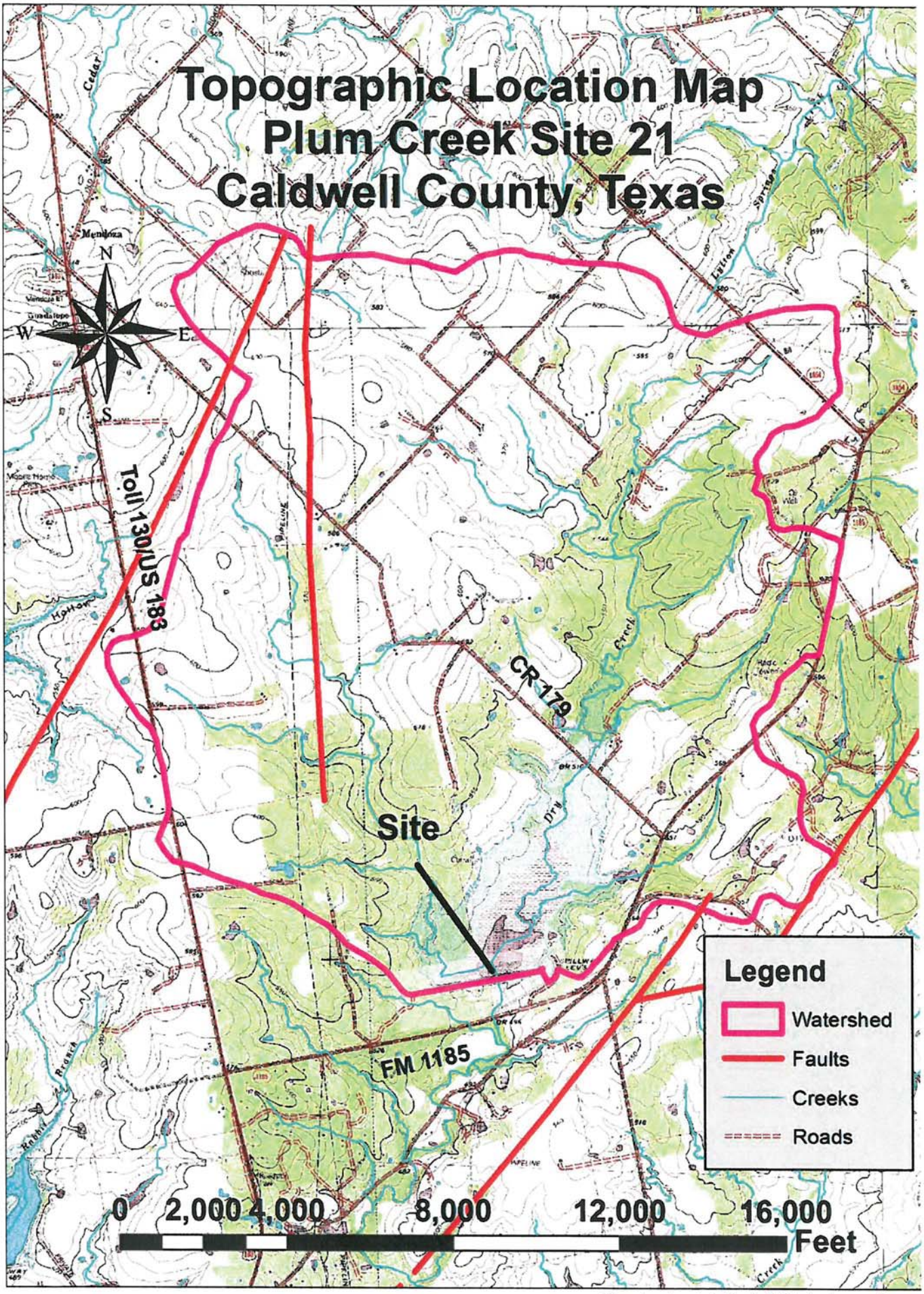
Plum_Creek_21_Georeferenced_As-Built_sm.pdf
305K

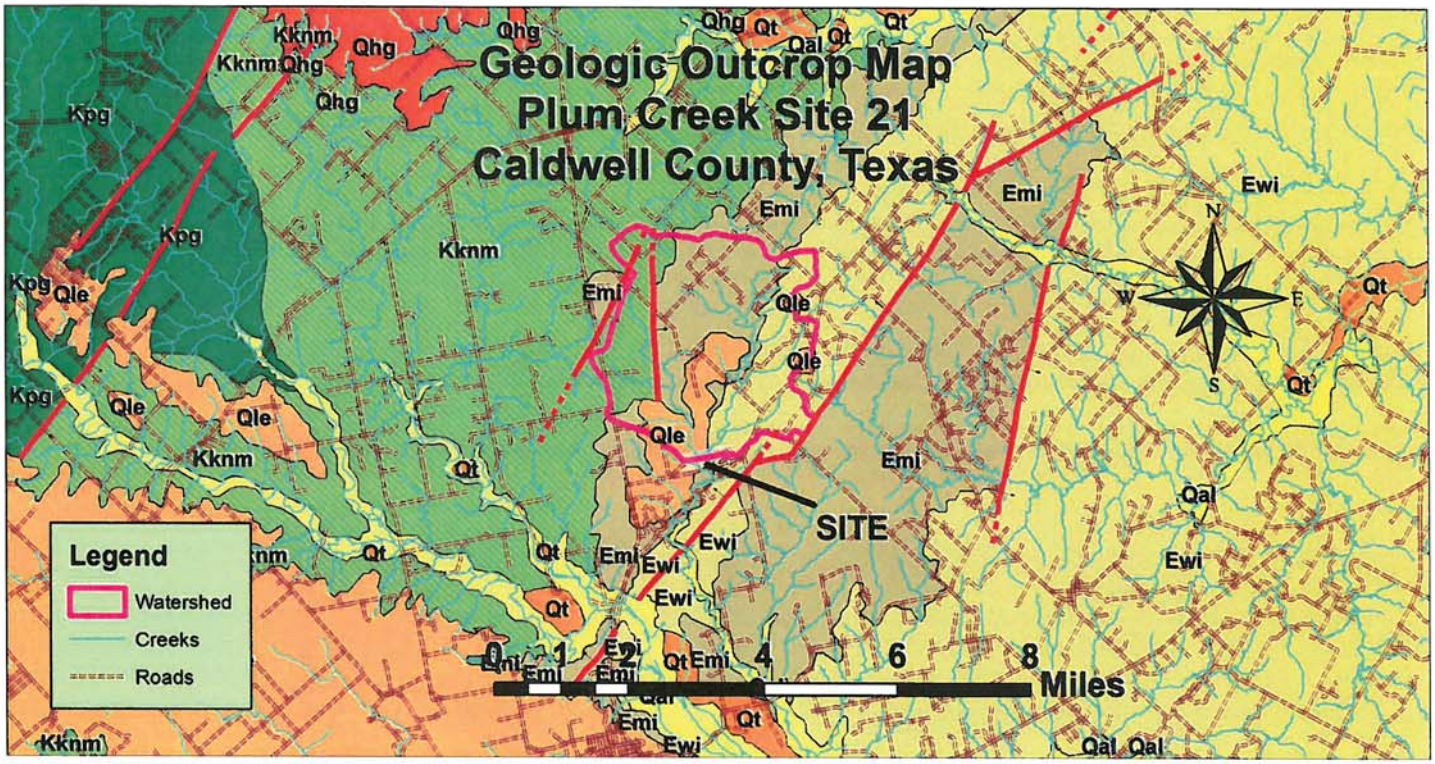
P1192 Plum Creek 21, Sample 251.5, 10' - 12.5' sm.pdf
757K

P1197 Plum Creek 21, Sample 251.7, 15' - 17.5' sm.pdf
779K

P1201 Plum Creek 21, Sample 251.9, 25' - 26.5' sm.pdf
738K

Plum Creek 21, Combined Seismic Data.pdf
1760K


Topographic Location Map
Plum Creek Site 21
Caldwell County, Texas
N
W
E
S
Toll 130/US 183
CR 179
Site
FM 1185
Legend
Watershed
Faults
Creeks
Roads
0
2,000
4,000
8,000
12,000
16,000
Feet



Modified from: Geologic Atlas of Texas, Seguin Sheet, Bureau of Economic Geology, 1974 http://tnris.org/data-download/#!/statewide

Qal Quaternary Alluvium

Qt Quaternary Fluviatile Terrace

Qhg Quaternary High Gravel

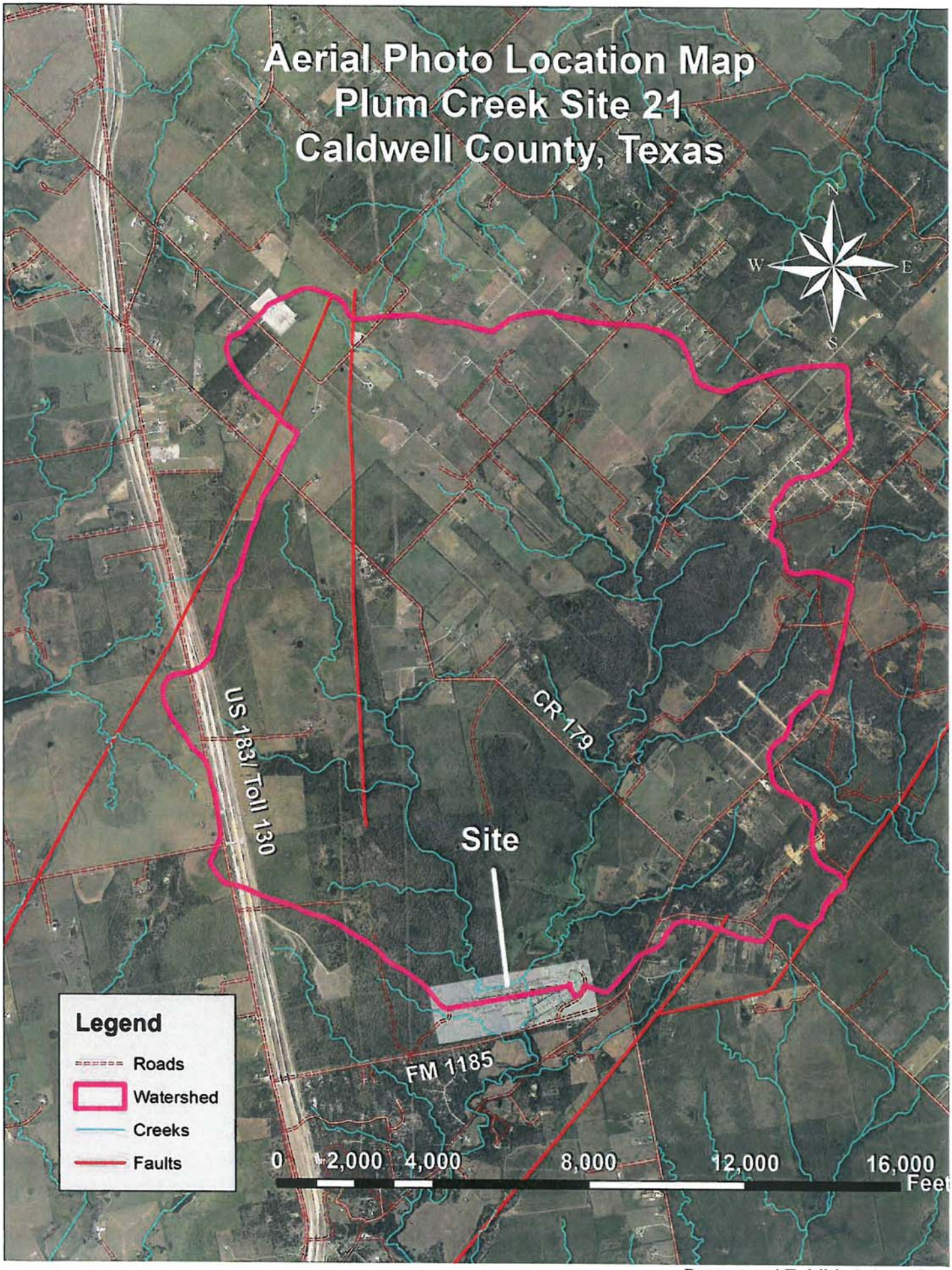
Qle Quaternary Leona Formation

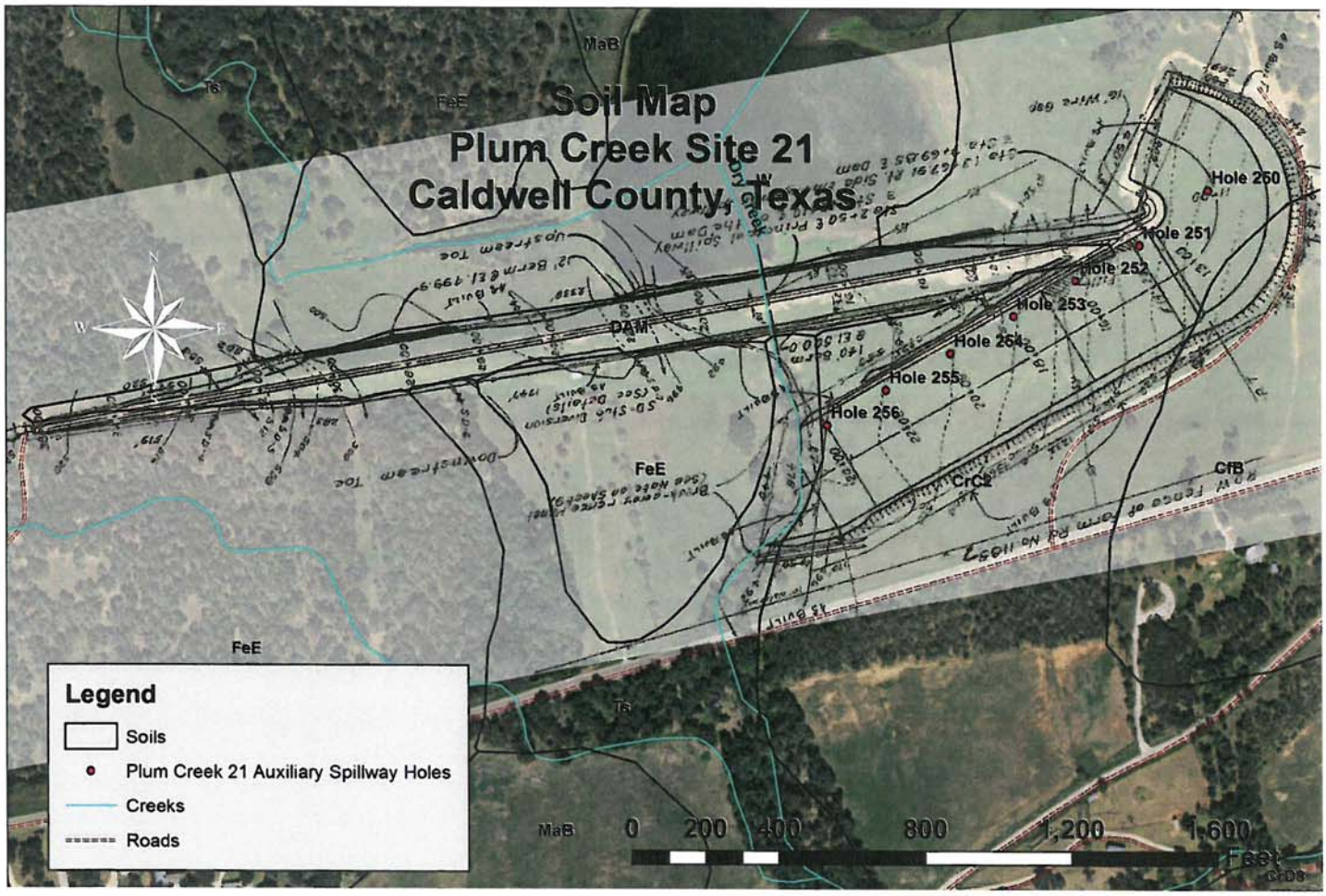
Ewi Eocene Wilcox Group

Emi Eocene Midway Group

Kknm Cretaceous Navarro Group and Marlbrook Marl "upper Taylor Marl"

Kpg Pecan Gap Chalk


Aerial Photo Location Map
Plum Creek Site 21
Caldwell County, Texas
N
W
E
S
US 183/ Toll 130
CR 179
Site
FM 1185
Legend
Roads
Watershed
Creeks
Faults
0
2,000
4,000
8,000
12,000
16,000
Feet



Base Map: USDA/NRCS 2014 NAIP from http://datagateway.nrcs.usda.gov/ , Soils from USDA/NRCS SOIL Survey Geographic (SSURGO), Caldwell County, Texas, 2001, As-built from NRCS Texas State Office Files, 07/13/1962, Georeferenced with ArcGIS 10.2 09/03/2014, Creeks from National Hydrology Database, Roads from TNRIS http://tnris.org/data-download/#/statewide , Texas Strategic Mapping Program (StratMap) 2006, Hole Location from field survey 09/11/2014

Engineering Properties

Caldwell County, Texas

[Absence of an entry indicates that the data were not estimated. This report shows only the major soils in each map unit]

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
CcD3:												
Chaney, severely eroded	0-14	Fine sandy loam	CL-ML, ML, SM	A-4	0	0	95-100	90-100	80-95	45-65	16-30	NP-7
	14-31	Clay, sandy clay	CH, CL, SC	A-6, A-7-6	0	0	90-100	90-100	90-100	43-85	39-60	24-42
	31-52	Clay, sandy clay, sandy clay loam	CH, CL, SC	A-6, A-7-6	0	0	0	90-100	90-100	80-100	45-85	25-55 11-40
	52-62	Channery clay, sandy clay, sandy clay loam	CH, CL, SC, SC-SM	A-2, A-4, A-6, A-7-6	0	0	90-100	90-100	80-100	25-85	25-60	6-40
CfB:												
Crockett	0-12	Fine sandy loam	CL, ML, SC, SM	A-4, A-6	0	0-2	98-100	94-100	89-100	40-96	15-35	3-15
	12-18	Clay, clay loam, sandy clay	CH, CL	A-6, A-7-6	0	0	89-100	75-100	75-100	60-98	35-59	23-42
	18-38	Clay, clay loam, sandy clay	CH, CL	A-6, A-7-6	0	0	89-100	75-100	75-100	65-98	35-59	23-42
	38-54	Clay, clay loam, sandy clay loam	CL	CH, A-6, A-7-6	0	0	0-5	90-100	85-100	75-100	50-90	30-60 15-40
	54-62	Clay loam	CH, CL	A-7-6	0	0-5	90-100	90-100	90-100	70-99	45-71	27-52

Survey Area Version: 8
Survey Area Version Date: 12/12/2013

Engineering Properties

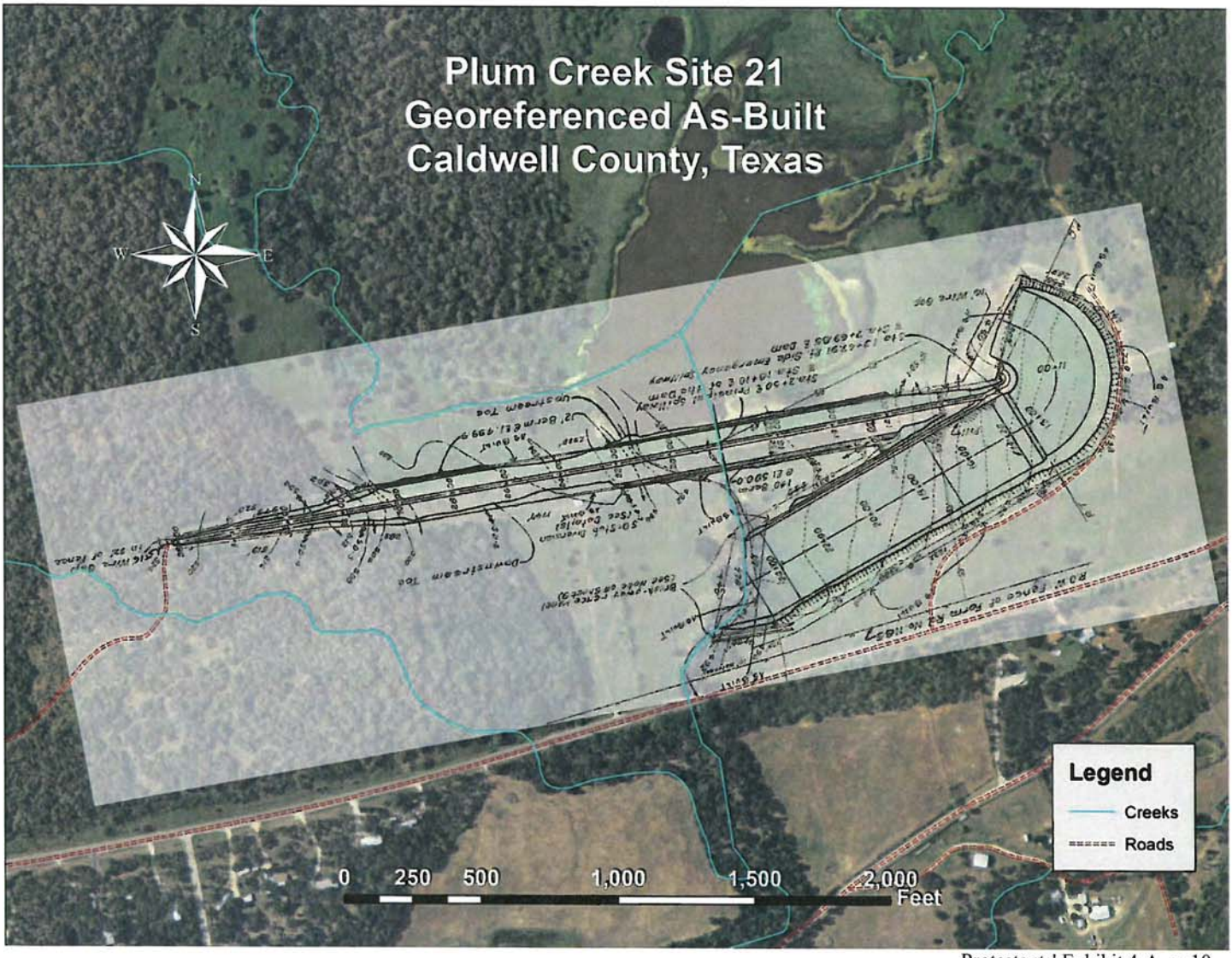
Caldwell County, Texas

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
CrC2:												
Crockett, eroded	0-7	Loam	CL, ML, SC, SM	A-4, A-6	0	0-2	98-100	94-100	89-100	40-96	15-35	3-15
	7-12	Clay, clay loam, sandy clay	CH, CL	A-6, A-7-6	0	0	89-100	75-100	75-100	60-98	35-59	23-42
	12-30	Clay, clay loam, sandy clay	CH, CL	A-6, A-7-6	0	0	89-100	75-100	75-100	65-98	35-59	23-42
	30-48	Clay, clay loam, sandy clay loam	CL	CH, A-7-6	A-6,	0	0-5	90-100	85-100	75-100	50-90	30-60 15-40
	48-62	Clay loam	CH, CL	A-7-6	0	0-5	90-100	90-100	90-100	70-99	45-71	27-52
FeE:												
Fett	0-14	Gravelly sandy loam	GM, GP, GP-GM, SP-SM	A-1-a, A-2-4	0-2	0-10	12-65	5-60	5-50	2-25	16-25	NP-7
	14-30	Gravelly clay, gravelly sandy clay, very gravelly clay	GC, SC	A-2-7	0-2	0-10	30-65	15-50	15-40	15-28	51-75	30-49
	30-80	Clay, gravelly clay, sandy clay	CH	A-7-6	0	0-5	80-100	70-100	70-100	70-99	51-84	35-61
MaB:												
Mabank	0-7	Loam	CL, CL-ML, SC,	A-4, A-6	0	0	95-100	95-100	80-98	40-70	19-32	4-15
	7-39	Clay, clay loam	CH, CL	A-6, A-7-6	0	0	95-100	95-100	95-100	60-85	38-55	22-37
	39-76	Clay, clay loam, sandy clay	CH, CL	A-6, A-7-6	0	0	95-100	95-100	95-100	60-85	38-55	22-37

Engineering Properties

Caldwell County, Texas

Map symbol and soil name	Depth	USDA texture	Classification		Fragments		Percent passing sieve number--				Liquid limit	Plasticity index
			Unified	AASHTO	>10 Inches	3-10 Inches	4	10	40	200		
	In				*Pct*	*Pct*					*Pct*	
Ts:												
Tinn	0-4	Clay	CH, CL	A-7-6	0	0	95-100	95-100	85-100	80-100	45-75	25-54
	4-62	Clay, silty clay	CH	A-7-6	0	0	95-100	90-100	80-100	80-100	55-75	35-54
	62-80	Clay, silty clay	CH	A-7-6	0	0	95-100	90-100	80-100	80-100	55-75	35-54



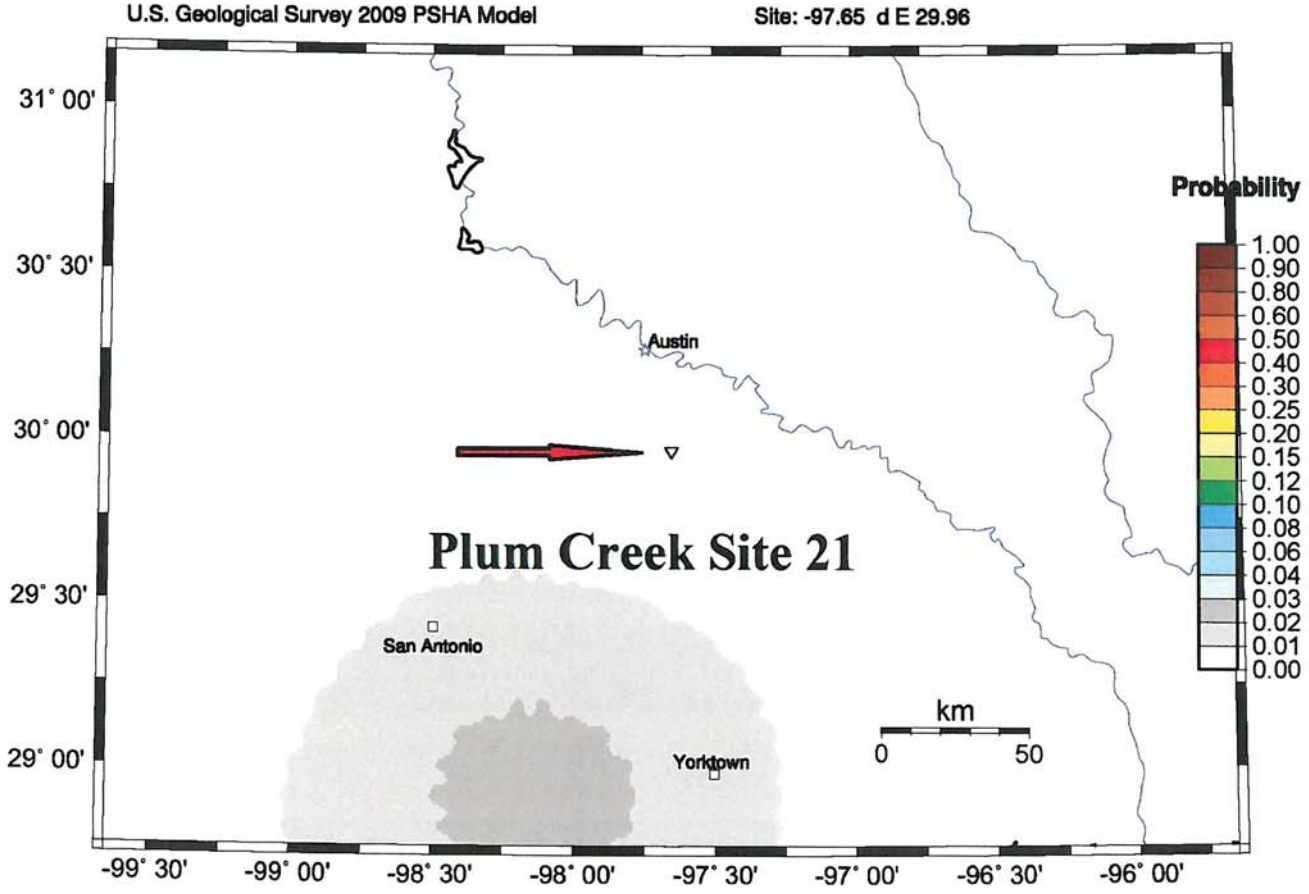
Protestants' Exhibit 4-A, p. 10


PLUM CREEK 21
CALDWELL COUNTY, TEXAS
251.5
10'-12.5'

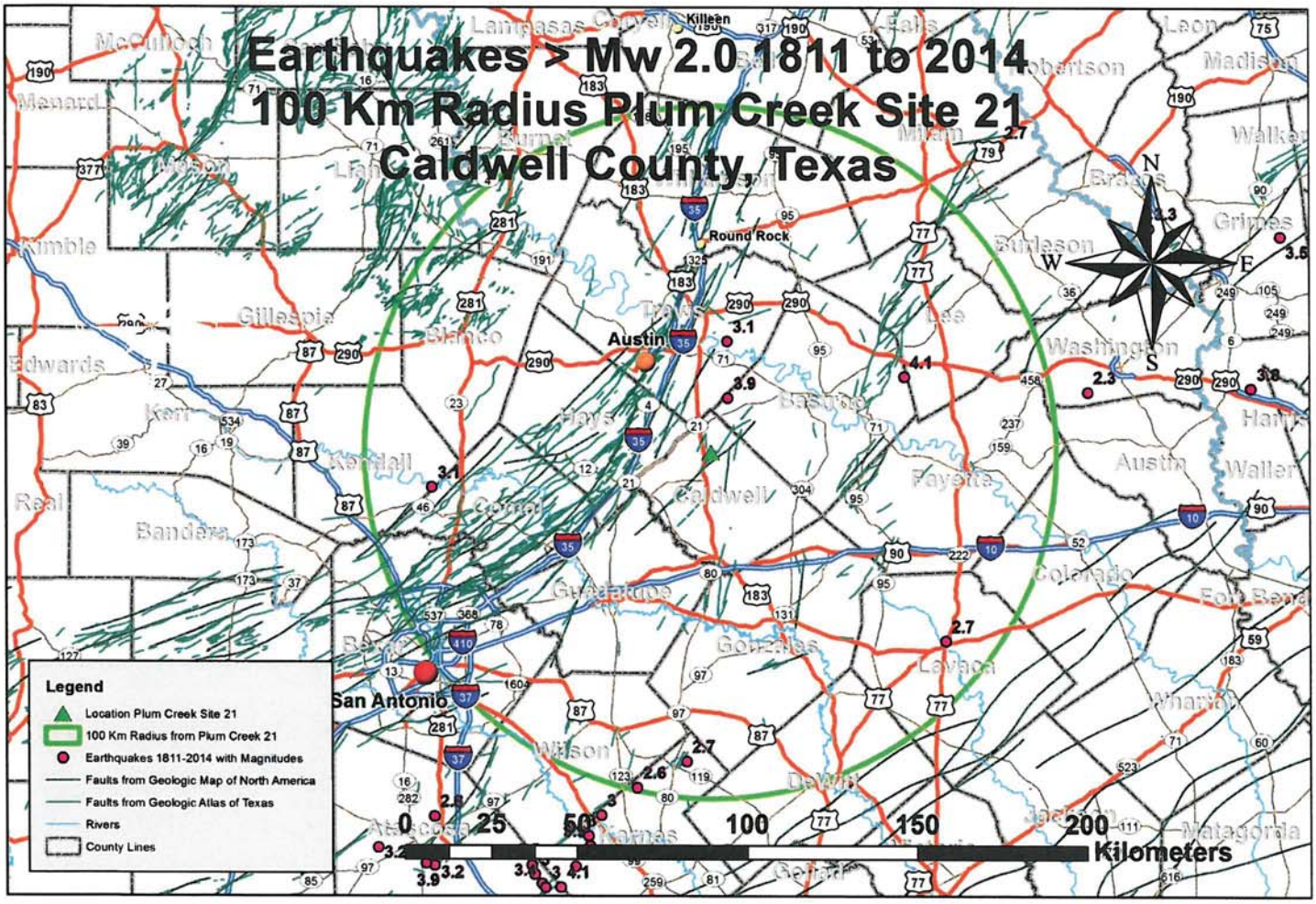

PLUM CREEK 21
CALDWELL CO., TEXAS
251.7
15'-17.5'
CREST ANNULUM SPILLWAY


PLUM CREEK 21
CALDWELL CO., TX
261.9
25-26.5
CRETACEOUS SEDIMENTARY
REFUSAL @ 26.5' IN
SILTSTONE

Probability of earthquake with M > 5.0 within 100 years & 50 km

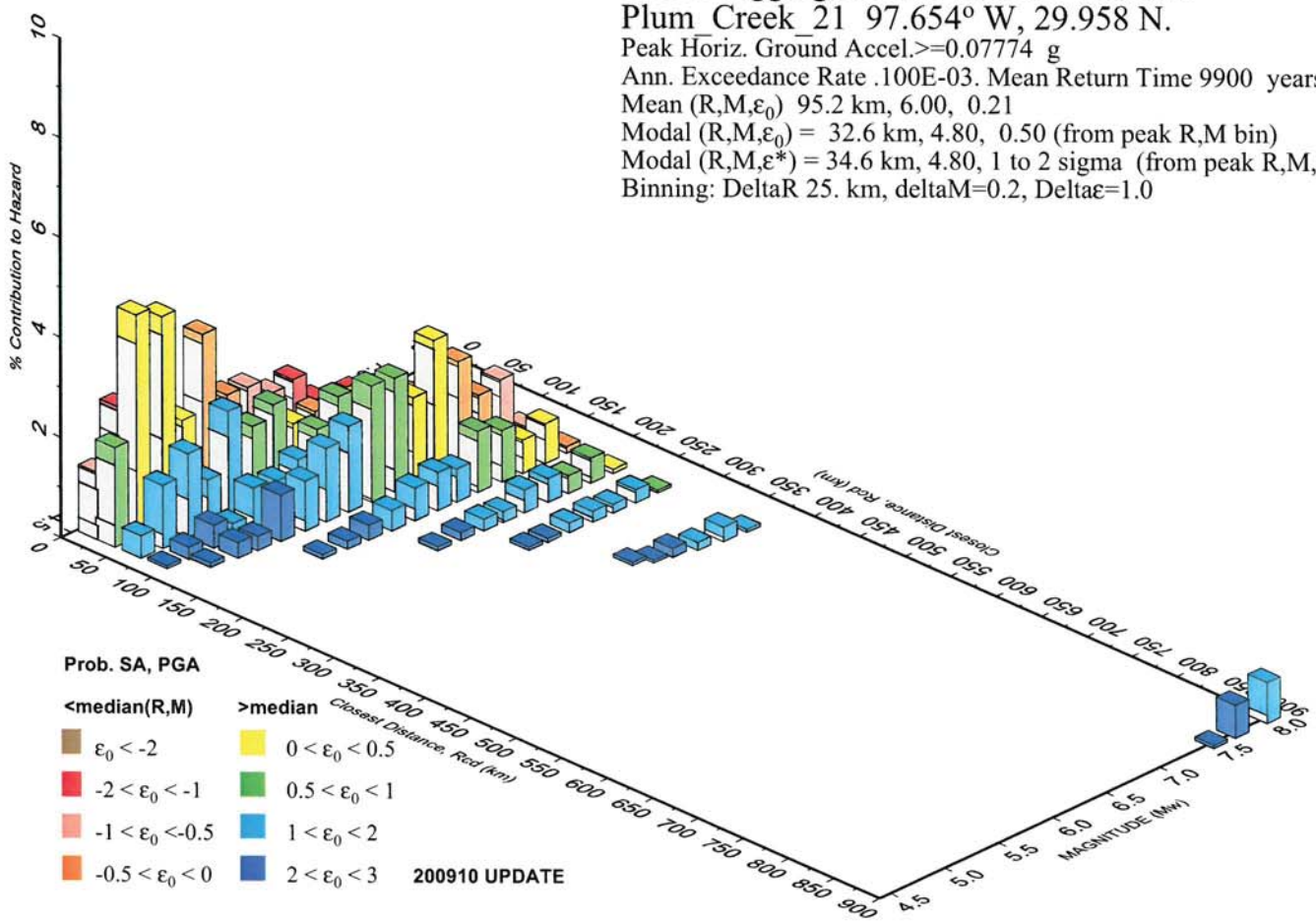


GMT 2015 Mar 24 20:55:59 Earthquake probabilities from USGS OFR 08-1128 PSHA. 50 km maximum horizontal distance. Site of interest: triangle. Epicenters mb>5 black circles; rivers blue.



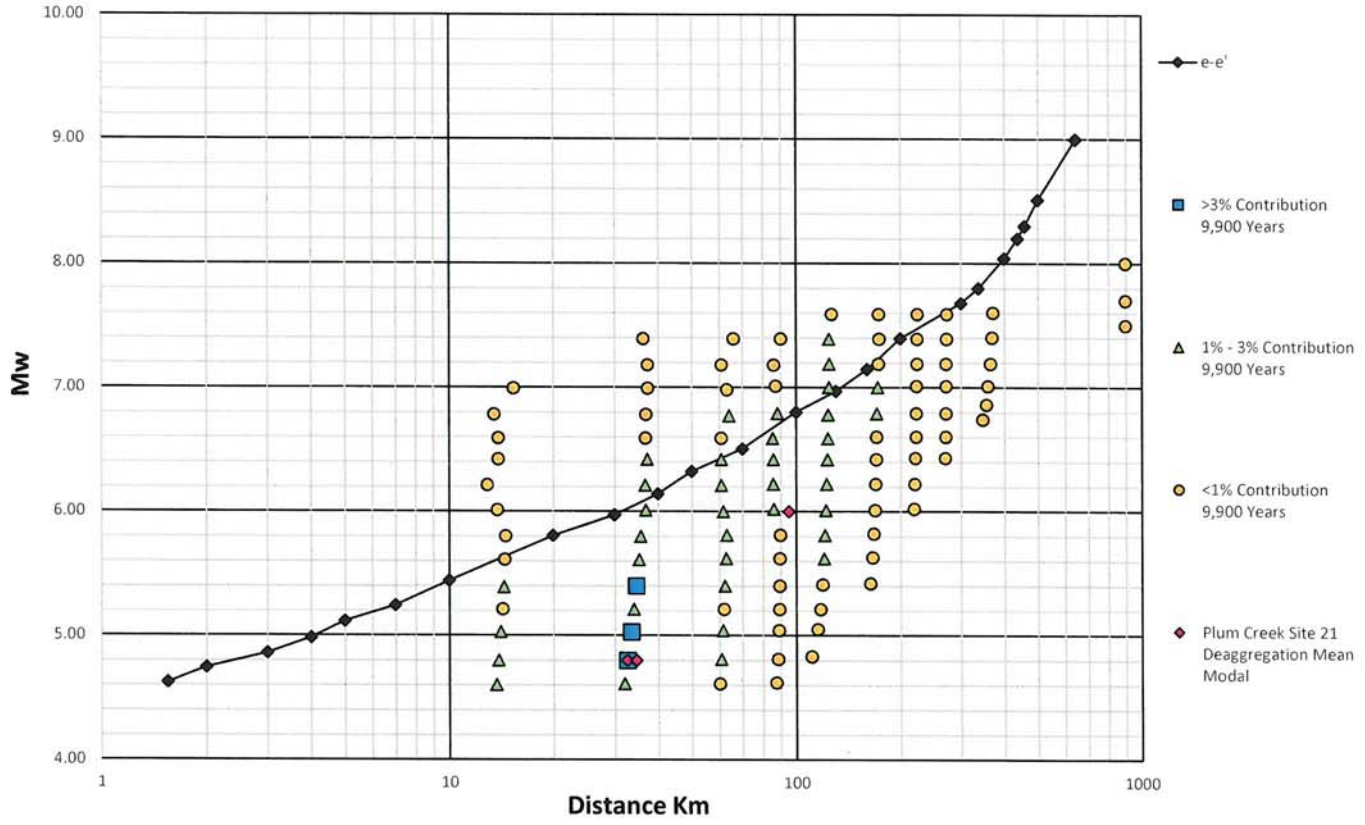
Data from: Faults, Geologic Atlas Texas http://www.tnris.org/get-data?quicktabs_maps_data=1 Bureau of Economic Geology, University of Texas Austin and USGS, 2007. Additional Fault data from Geologic Map of North America, USGS, 2005, http://ngmdb.usgs.gov/gmna/, Earthquake and Magnitude from 2002 Deaggregations txt data https://geohazards.usgs.gov/deaggint/2002 , USGS, and http://www.ngdc.noaa.gov/hazard/int_srch.shtml , NOAA, Data plotted in ArcMap 10.2.

PSH Deaggregation on NEHRP BC rock
Plum_Creek_21 97.654° W, 29.958 N.
Peak Horiz. Ground Accel.>=0.07774 g
Ann. Exceedance Rate .100E-03. Mean Return Time 9900 years
Mean (R,M,ε_0) 95.2 km, 6.00, 0.21
Modal (R,M,ε_0) = 32.6 km, 4.80, 0.50 (from peak R,M bin)
Modal (R,M,ε^*) = 34.6 km, 4.80, 1 to 2 sigma (from peak R,M,ε bin)
Binning: DeltaR 25. km, deltaM=0.2, Deltaε=1.0



GMT 2015 Mar 24 20:58:14 Distance (R), magnitude (M), epsilon (E0,E) deaggregation for a site on rock with average vs= 760. m/s top 30 m. USGS CGHT PSHA2008 UPDATE Bins with lt 0.05% contrib. omitted

Mw vs Distance for Liquefaction on Plum Creek Site 21 vs Papdopoulos and Lefkoppoulos 1993 Curve e-e'



Data from: http://earthquake.usgs.gov/hazards/apps , e-e' curve plotted from Magnitude-Distance Relations for Liquefaction in Soil from Earthquakes, Bulletin of the Seismological Society of America, Vol. 83, June 1993. % contribution data from txt PSHA Deaggregation parameters - 1% in 200 years, Return Period 9,900 years, Exceedance PGA >/= 0.07774, Annual Exceedance Rate 1.0 x 10^{-4}

Number	Distance	Mag	%		X	Y		>3% Dist	> 3% Mw	>3% Contribution	1%-3% Distance	1%-3% Mw	1%-3%- Contribution	<1% Distance	<1% Mw	<1% Contribution	Mean Modal	
1	32.6	4.8	4.454		1.55	4.6233	32.6	4.8	4.454		123.3	6.78	2.67	89.9	5.81	0.995	95.2	6
2	33.5	5.03	4.199		2	4.7445	33.5	5.03	4.199		13.9	4.8	2.456	87.2	7.01	0.989	32.6	4.8
3	34.6	5.4	3.482		3	4.8605	34.6	5.4	3.482		122.1	6.22	2.315	61.9	5.21	0.972	34.6	4.8
4	123.3	6.78	2.67		4	4.9839					122.7	6.42	2.272	36.9	6.78	0.972		
5	13.9	4.8	2.456		5	5.1168					62.3	5.4	2.158	118.8	5.41	0.93		
6	122.1	6.22	2.315		7	5.2427					35.2	5.61	2.052	89.5	5.4	0.842		
7	122.7	6.42	2.272		10	5.4423					124.1	7	2.032	897.6	8	0.822		
8	62.3	5.4	2.158		20	5.806					35.6	5.8	2.015	173.4	7.39	0.801		
9	35.2	5.61	2.052		30	5.9708					32	4.61	1.991	89.7	5.62	0.77		
10	124.1	7	2.032		40	6.1416					34	5.21	1.942	170	6.42	0.766		
11	35.6	5.8	2.015		50	6.3238					63.1	5.81	1.885	36.8	6.59	0.726		
12	32	4.61	1.991		70	6.5045					85.8	6.22	1.813	14.3	5.21	0.683		
13	34	5.21	1.942		100	6.8024					14.1	5.03	1.779	60.8	6.59	0.677		
14	63.1	5.81	1.885		130	6.9704					36.7	6.21	1.771	172.7	7.19	0.668		
15	85.8	6.22	1.813		160	7.1472					121.3	6.01	1.713	170.1	6.6	0.664		
16	14.1	5.03	1.779		200	7.3954					123	6.59	1.711	897.6	7.7	0.659		
17	36.7	6.21	1.771		300	7.6796					36.8	6.01	1.697	169.2	6.22	0.653		
18	121.3	6.01	1.713		337.5	7.8					61.4	5.04	1.672	63.2	6.98	0.627		
19	123	6.59	1.711		400	8.041					62.8	5.62	1.641	86.2	7.18	0.603		
20	36.8	6.01	1.697		437.1	8.2					85.9	6.42	1.583	37.4	6.99	0.535		
21	61.4	5.04	1.672		458	8.3					120.6	5.81	1.47	14.5	5.61	0.514		
22	62.8	5.62	1.641		500	8.5134					88.3	6.79	1.383	223.1	7.39	0.503		
23	85.9	6.42	1.583		642.5	9					86.1	6.02	1.363	222.1	7.01	0.482		
24	120.6	5.81	1.47								13.7	4.6	1.343	90.4	7.39	0.47		
25	88.3	6.79	1.383								60.8	6.21	1.319	221.8	6.79	0.464		
26	86.1	6.02	1.363				Points above and left of e-e' curve				61.6	6	1.302	89.1	5.04	0.458		
27	13.7	4.6	1.343								124.1	7.39	1.275	66	7.39	0.457		
28	60.8	6.21	1.319								60.7	4.81	1.269	14.6	5.8	0.455		
29	61.6	6	1.302								64.1	6.77	1.25	60.2	4.61	0.449		
30	124.1	7.39	1.275								170.5	6.79	1.222	168.5	6.01	0.408		
31	60.7	4.81	1.269								124.3	7.19	1.17	222.8	7.19	0.353		
32	64.1	6.77	1.25								37.2	6.42	1.167	13.8	6.01	0.35		
33	170.5	6.79	1.222								85.5	6.59	1.109	12.9	6.21	0.332		
34	124.3	7.19	1.17								60.8	6.42	1.061	89.3	5.21	0.321		
35	37.2	6.42	1.167								14.4	5.39	1.041	115	5.05	0.316		
36	85.5	6.59	1.109								171.6	7	1.03	167	5.82	0.295		
37	60.8	6.42	1.061								119.9	5.62	1.005	369	7.4	0.29		
38	14.4	5.39	1.041											117.1	5.21	0.288		
39	171.6	7	1.03											37.3	7.18	0.272		
40	119.9	5.62	1.005											272.1	7.39	0.265		
41	89.9	5.81	0.995											60.9	7.18	0.264		
42	87.2	7.01	0.989											36.3	7.39	0.255		
43	61.9	5.21	0.972											13.9	6.42	0.254		
44	36.9	6.78	0.972											88.5	4.81	0.248		
45	118.8	5.41	0.93											220.3	6.43	0.233		
46	89.5	5.4	0.842											221.4	6.6	0.223		
47	897.6	8	0.822											271.3	7.01	0.22		
48	173.4	7.39	0.801											270.9	6.79	0.196		
49	89.7	5.62	0.77											13.5	6.78	0.189		
50	170	6.42	0.766											359	7.01	0.177		
51	36.8	6.59	0.726											271.6	7.19	0.174		
52	14.3	5.21	0.683											365	7.19	0.164		
53	60.8	6.59	0.677											219.3	6.22	0.161		

54	172.7	7.19	0.668
55	170.1	6.6	0.664
56	897.6	7.7	0.659
57	169.2	6.22	0.653
58	63.2	6.98	0.627
59	86.2	7.18	0.603
60	37.4	6.99	0.535
61	14.5	5.61	0.514
62	223.1	7.39	0.503
63	222.1	7.01	0.482
64	90.4	7.39	0.47
65	221.8	6.79	0.464
66	89.1	5.04	0.458
67	66	7.39	0.457
68	14.6	5.8	0.455
69	60.2	4.61	0.449
70	168.5	6.01	0.408
71	222.8	7.19	0.353
72	13.8	6.01	0.35
73	12.9	6.21	0.332
74	89.3	5.21	0.321
75	115	5.05	0.316
76	167	5.82	0.295
77	369	7.4	0.29
78	117.1	5.21	0.288
79	37.3	7.18	0.272
80	272.1	7.39	0.265
81	60.9	7.18	0.264
82	36.3	7.39	0.255
83	13.9	6.42	0.254
84	88.5	4.81	0.248
85	220.3	6.43	0.233
86	221.4	6.6	0.223
87	271.3	7.01	0.22
88	270.9	6.79	0.196
89	13.5	6.78	0.189
90	359	7.01	0.177
91	271.6	7.19	0.174
92	365	7.19	0.164
93	219.3	6.22	0.161
94	126.4	7.59	0.16
95	165.7	5.63	0.159
96	13.9	6.59	0.153
97	172.9	7.59	0.131
98	15.4	6.99	0.103
99	110.5	4.83	0.092
100	163.4	5.42	0.091
101	223.7	7.59	0.085
102	270.6	6.6	0.082
103	218.5	6.02	0.078
104	269.7	6.43	0.073
105	346.4	6.74	0.067
106	371.5	7.6	0.066
107	897.5	7.5	0.064
108	87.6	4.62	0.06
109	355.4	6.86	0.058
110	272.6	7.59	0.055

126.4	7.59	0.16
165.7	5.63	0.159
13.9	6.59	0.153
172.9	7.59	0.131
15.4	6.99	0.103
110.5	4.83	0.092
163.4	5.42	0.091
223.7	7.59	0.085
270.6	6.6	0.082
218.5	6.02	0.078
269.7	6.43	0.073
346.4	6.74	0.067
371.5	7.6	0.066
897.5	7.5	0.064
87.6	4.62	0.06
355.4	6.86	0.058
272.6	7.59	0.055