

SHORELINES SUBSTANTIAL DEVELOPMENT PERMIT APPLICATION

IN RE: Dike, Drainage and irrigation
District #12; PL120144 Shoreline
Substantial Development Permit

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BEFORE HEARING EXAMINER WICK DUFFORD

Date: June 12, 2013

Transcribed By: Allen R. Emerson
Certified Court Reporter
State of Washington
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A-P-P-E-A-R-A-N-C-E-S:

FOR DD# 12

MR. JOHN SHULTZ

Attorney -- 160 Cascade Place

Burlington, WA 98233

DAN LEFEBER

Operations Manager DD#12

LORNA ELLESTAD

Commissioner DD#12

JOHN SEMRAU

Engineer, DD#12

INTERVENOR:

LARRY KUNZLER

ALSO PRESENT

MIKE ANDERSON

Mayor of Sedro Woolley

DAN BERENTSON

Natural Resources Division Manager, Skagit County

LEONARD HALVORSEN

KEITH WAGONER

Sedro Woolley City Council

TOM SHEAHAN

ROGER RIDGEWAY

JOHN COOPER

Planning and Development Services

1 **WITNESS** **Testimony Pages**

2 JOHN COOPER 6, 102

3 **APPLICANT:**

4 JOHN SHULTZ 11, 90

5 JOHN SEMRAU 18, 90

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17 **NO. Marked Identified**

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HEARING EXAMINER: Call the hearing to order. On April 24th we had a hearing about the application of dike drainage an Irrigation District #12 to do some shoreline stabilization and dike improvement on the Skagit River Dike that extends from Lafayette Road in the north to Gardner Road in the south east of Burlington. After the hearing we discovered that some of the record that we had hoped we were making on the machinery wasn't too intelligible and so we decided to continue the hearing and take another crack at making sure that we have a good record and on that subject I guess I should say that we do have a lot of documentary evidence as well as pretty good notes about what everybody said last time, so I think we can recapture that fairly clearly but in case anybody wants to say it again and make sure they get a verbatim transcript then this is an opportunity to do that. At the end of the hearing I left the record open a week for additional comments because there was some suggestion that there were some problems with notice of the hearing and people felt they needed more time. Just in order to deal with that - and we are up to exhibit 30 I think -

UNKNOWN SPEAKER: 29

1 HEARING EXAMINER: So the next one
2 would be 30 and what I'm going to do is mark the
3 notice of the April 24th hearing that was published
4 in the paper as well as the notice that was sent out
5 to people as exhibit 30, so that that will be in the
6 record that those notices were in fact mailed and
7 then for today's hearing I'm going to do the same
8 thing as exhibit 31, the notice of the continued
9 hearing of June 12th, both the published version and
10 the mailed and posted version. So those two
11 additional items will be in the record.

12 (Ex. #30 & #31 Marked)

13 HEARING EXAMINER: We're up to 31 now
14 and I note that during the interim while the record was
15 open there were several additional exhibits that were
16 submitted. So we have three from John Semrau - I have
17 not seen these so I don't know what they're about but
18 one from Margaret Fleek, a letter from John Shultz and
19 the Corps of Engineers sent a letter on the 1st of June,
20 two letters from John Shultz and finally a communication
21 from Chal Martin of the City of Burlington. So we have
22 all those items and they are now a part of our record
23 and we will expand our record by whatever happens
24 here today. I'm going to ask the county to sort of
25 capitulate what they did last time. So speaking for

1 the county we have -

2 MR. COOPER: John Cooper.

3 **JOHN COOPER**

4 Having been sworn to tell the truth in this
5 matter, testified on his oath, as follows:

6 HEARING EXAMINER: Okay, why
7 don't you go back over your staff findings.

8 MR. COOPER: Okay, I'll just be brief.
9 This is a continuance of the hearing for the Shorelines
10 Substantial Development Application, PL12-0191. This
11 is for Skagit County Dike Drainage near Irrigation
12 District #12. The area is subject to the proposed
13 shoreline stabilization and flood protection
14 improvements located along the right - which is the
15 north and west bank of the Skagit River extending
16 from Lafayette Road in the north or Gardner Road in
17 the South, which is east Burlington. The project is
18 an eastern extension of the levee maintenance project
19 initiated by the City of Burlington and the Skagit
20 County Dike Drainage & Irrigation District #12 intended
21 to increase floor protections for the City of
22 Burlington, Skagit County Dike and Drainage District
23 #12 proposed to enlarge both the width and the height
24 of the existing Skagit River Levee along a 1.3 mile-long
25 project site. The elevation of the top of the levee

1 will be increased by approximately four feet and the toe
2 or the base of the levee will be increased by
3 approximately sixty feet. The widening of the dike
4 will be limited to an area landward of the existing
5 levee toe. The purpose of the improvement is to
6 provide structural reinforcement of the levee system
7 to prevent failure during elevated flood events and
8 to obtain levee certification from The United States
9 Army Corps of Engineers. The subject property is
10 designated as agricultural, natural resource lands
11 as indicated in the comprehensive plan and zoning
12 maps adopted December 23rd, 2008. The subject site
13 has a shorelines designation of rural as indicated
14 in the Skagit County Shorelines Management Master
15 Program and I'll note that Skagit River is considered
16 a shoreline of statewide significance. A *Determination*
17 *of Significance* was issued by the City of Burlington
18 and a draft environmental impact statement was
19 completed on February 13th, 2009 for the dike
20 stabilization project. The final EIS or environmental
21 impact statement was issued on July 16th, 2010. We
22 reviewed the application according to the criteria in
23 the Shoreline Management Master Program and, in
24 general, found the application to be in compliance
25 with that criteria and based on that information we

1 went ahead and recommended approval of the Shorelines
2 Substantial Development Permit with the inclusion of
3 seven conditions which are included in the staff
4 report. That concludes the summary. I can try to
5 answer any additional questions that may have resulted.

6 HEARING EXAMINER: I think the record is
7 unclear on a couple of things and so I wanted to ask
8 you about the different kinds of hydrology studies
9 that have been made with respect to the river. The
10 Corps has done their work and then there is something
11 called NHC and then there is something called PIE.

12 MR. COOPER: Yes.

13 HEARING EXAMINER: Now as I understand
14 it the PIE hydrology is basically the basis for the
15 city's application here, is that right?

16 MR. COOPER: They have used a lot of
17 Pacific International's hydraulic information. They
18 also provide the Army Corps of Engineers flood
19 evaluation and used their numbers for evaluation of
20 the impacts that may have resulted in the surrounding
21 area from the increase in height of the dike.

22 HEARING EXAMINER: I know they have
23 done that analysis but the one that isn't explained
24 is the NHC, which is kind of the middle range of
25 numbers. Who did that and why?

1 MR. COOPER: Let's see, that was
2 Northwest Hydrologic Consultants I believe and I
3 think this was - and I don't know a lot about
4 that I really don't but I believe there were there
5 were three - the City of Burlington had Pacific
6 International do their modeling to figure out what
7 the maximum flood could be. The Corps provided
8 theirs, which was the upper-end, the higher volume
9 and then I think there was the third - the
10 consultants took all the information and tried
11 to figure out what the flow would be and they came
12 in the middle range or maximum flow could be under
13 one hundred year flood, in the middle range.

14 HEARING EXAMINER: Yes I just didn't
15 know what to do with that piece of information and
16 so maybe somebody can explain that to me or maybe
17 it doesn't matter. I thought it might have been
18 done for the GI work -

19 MR. COOPER: I think it was done
20 for the GI work.

21 HEARING EXAMINER: I didn't know
22 what the deal was with that but we will find out.
23 Okay, just a couple of questions of you and then
24 I'll leave you alone. On the noticing of things
25 of this kind there is a notice that is published

1 in the paper and there is a notice that is mailed
2 to people who live in the area as well as posted.

3 MR. COOPER: Yes.

4 HEARING EXAMINER: And who does that?
5 How can I be sure that that sort of activity has
6 really happened?

7 MR. COOPER: The list of people
8 included in the mailings was provided with the
9 application. I sent out those mailings.

10 HEARING EXAMINER: Oh, you do that?

11 MR. COOPER: I did it all, yes. I
12 posted. I got it in the paper, yes.

13 HEARING EXAMINER: Okay, so you can
14 testify that those things were done with respect
15 to the April 24th Hearing?

16 MR. COOPER: Yes.

17 HEARING EXAMINER: And you are
18 testifying?

19 MR. COOPER: I am testifying, yes.

20 HEARING EXAMINER: And also with
21 respect to today's hearing?

22 MR. COOPER: Yes, that was put out
23 in the paper as well.

24 HEARING EXAMINER: Alright, then lets
25 hear from the applicant, whatever it is they may want

1 to add to what they have already said or repeat.

2 MR. SHULTZ: Mr. hearing examiner
3 should I go up there?

4 HEARING EXAMINER: I think you are fine
5 where you are, Mr. Shultz. Identify yourself for the
6 record, if you will.

7 MR. SHULTZ: My name is John Shultz
8 and I'm an attorney in Burlington and my address is
9 160 Cascade Place, in Burlington, Washington and I
10 have been an attorney for dike district 12 and for the
11 other dike districts for many years.

12 HEARING EXAMINER: Okay, assuming that
13 you are testifying I'm going to swear you in.

14 (Applicant Testimony)

15 JOHN SHULTZ

16 Having been sworn to tell the truth in this
17 matter, testified on his oath, as follows

18 MR. SHULTZ: Mr. Hearing Examiner I
19 wanted to make just a few brief comments. We did have
20 the gap in the record and I wanted to make sure that
21 after myself and Mr. Semrau discussed this we filled
22 all those gaps in the record. So what I wanted to
23 do is summarize at least what I have seen so far and
24 I will try to be brief. I notice that the process
25 is a little different than court. In a court process

1 people testify or submit documents and they are ruled
2 on at the time and they are either objected to or
3 accepted or excluded. It seems to be a little different
4 process here and I think we're in a search for the
5 truth here but it seems like in many of these
6 hearings they kind of go afield as far as emotional
7 comments, derogatory comments, some things that are
8 stated that are not under oath and so that prompted
9 our submitting comments after the hearing. With
10 one commentator we had some disagreements regarding
11 what was factional and what was emotional and so I'm
12 hoping that my letter of -

13 HEARING EXAMINER: These letters that
14 I was noting had been submitted, you are referring
15 to things like that?

16 MR. SHULTZ: Yes and so I just wanted
17 to recap that. I don't think I need to remind
18 the hearing examiner but the permit should be
19 determined on the facts of the case and I look at
20 this and I see just a huge amount of facts that
21 militate in favor of submitting and approving this
22 permit and I'll go through a couple of things that
23 are self-evident because the county has discussed
24 these things and they are in the record: That the
25 EIS has been approved in July, 2010 and I would

1 submit that all the comments that we're hearing
2 today and at the prior hearing and written comments,
3 have already been addressed in the EIS including some
4 of the commentators who submitted voluminous information
5 at the time of the EIS and those have been dealt with. So
6 Nothing new under the sun here as far as the evidence.
7 This project has been going on since 2007 and when I say
8 this project I mean phase 1 of the project where
9 there has been some widening. Thus far that hasn't
10 been any raising of the height of the levee and I
11 wanted to make sure the hearing examiner knew about
12 the concept of freeboard, that there is a certain
13 height that has to be met if we're going to certify
14 the levee. That doesn't mean that willy nilly the
15 dike district is going to go out and raise the levee
16 four feet. It means that some areas would not be
17 raised because they are already at sufficient
18 height. Other areas will be filled in and other
19 areas would be raised possibly three feet. So the
20 height of the levee would increase later and the EIS
21 looked at this and said there would be some minor
22 impacts to folks down river but not a great deal of
23 impact. We have wetland assessments that have been
24 approved and they are in the record. We have fish
25 and wildlife assessment approved in the record by

1 Graham Bunting. There was some reference that the
2 dike district is working without a permit and I
3 think Mr. Semrau testified that as far as the number
4 of permits and the dates of issuance and the whole
5 thing, all the permits that we needed were applied
6 for and the fill and grade permits were all
7 appropriate. I wanted to, just briefly, look at
8 oversight here. This project has had just
9 unbelievable oversight since early 2000 when it
10 was proposed. We had PI engineering and Mr. Semrau
11 will discuss the issue that you just raised with
12 the county and I'll tell you what I know as far as
13 the long and short of it. The Army Corps of Engineers
14 has done hydrology which included four historic
15 biblical floods, huge in proportion to all the rest.
16 Do you see the graph in these four floods stand out
17 like this and everything else is pretty much
18 consistent. PIE Engineering probably did about three
19 or four years of work on this, spent a couple
20 million dollars and they found that these historic
21 floods weren't necessarily accurate, so they lowered
22 those a little bit by the evidence we have seen in
23 various studies. There was a prior geologist who
24 walked the site many years ago. And so PIE lowered
25 those amounts a little bit. NHC - and you heard Mr.

1 Cooper refer to this, NHC was hired by the county,
2 they are the county's engineer and they took a second
3 look at this. And so we have the Corps up here and
4 we have PIE here and the difference really is maybe -
5 well, it's not a great deal of difference between those
6 two. NHC was kind of in the middle, they were, you
7 know not too hot and not too cold but just right, like
8 Goldilocks and the dike district is okay with that.
9 We have incorporated that in our work. So we have
10 looked at all these issues and there have been many
11 millions of dollars spent on NHC and PIE to get the
12 engineering right and we're pretty close to getting
13 it right, as right has anybody else has gotten it in
14 the last twenty years. We also had oversight with
15 our engineers, Golder and Associates, Reichhardt and
16 Ebe Engineers were on this. The U.S. Army Corps
17 has been a partner with us for many years and you
18 heard at the last hearing that Doug Webber, he is
19 one of the officials from the Seattle District, Army
20 Corps of Engineers, he came and testified and he said
21 yeah, this is a good project. And we talked about
22 the GI Study, that is somewhat of a red herring
23 because the GI study has been in process for
24 seventeen years and they have not yet identified a
25 project. They are starting to cut down the time

1 period to three years now. And so we're working
2 with them but there is no guarantee that the GI
3 study will be completed or when or if it is
4 completed if there will be funding or if there
5 is funding, if the dike districts will - or any
6 dike district in the county will reach cost benefit
7 ratio acceptable to getting funding from the port.
8 In the meantime dike 12 has been working on this
9 project diligently with Burlington to get levee
10 certification. Once we get levee certification that
11 is going to affect the FEMA flood rating for the
12 entire valley. Dike 12 work will be a component of
13 the GI Study if it gets done but I want to make one
14 thing clear. The GI study is part of this but it
15 is not a precondition for dike 12 doing its work.
16 There is no contingency for dike 12 doing their work
17 as conditioned upon the GI study. So I wanted to
18 make that point clear because I don't think that
19 was made clear. In any event we have had other
20 people testify here. We have had, like I said,
21 Doug Webber from the Corps. Tom Sheahan, he goes way
22 back. He knows a lot about flooding. Margaret Fleek
23 testified. Chal Martin has been involved, he was
24 employed by the county and he worked on these issues
25 for many years and then he went to Burlington and

1 he has worked on the certification. So there are
2 a lot of people in favor and I think those opposed
3 may have other issues or other agendas but I would
4 submit to you that all the evidence points in favor
5 of approving this permit, as evidenced by the fact
6 that the county does recommend it. The county says
7 we have looked at all this, the evidence has been
8 submitted and it's consistent with all the regulations
9 and this permit should be issued. If it is not issued
10 that stymies Dike 12 because we can't complete projects
11 now and we can't work for urban levee protection for
12 the next several years. So what if, at the end of
13 the day, the GI study is not approved and we're
14 stopped from doing the work? The people in Skagit
15 County will suffer because there will not be this
16 added protection for the river and once we have this
17 added protection we can embellish that and add other
18 protections to other areas because there will be
19 more certainty about river hydrology and the
20 certification of levee. FEMA will be happy because
21 we're doing what we need to do to certify our levees.

22 So with all that and I know I'm repeating
23 myself but I would urge the hearing examiner to
24 approve this permit. There are conditions to the
25 permit that are fine with Dike 12 but we have already

1 complied with most of those anyway but we certainly would
2 work with the county and comply with anything that is
3 required to help us get this job done. Thank you.

4 COMMISSIONER DUFFORD: Thank you. Mr.
5 Semrau. State your name.

6 MR. SEMRAU: John Semrau.

7 **JOHN SEMRAU**

8 Having been sworn to tell the truth in this
9 matter, testified on his oath, as follows:

10 MR. SEMRAU: I had a fairly lengthy
11 presentation last time. I have updated it in written
12 form so I will submit this at the end but it want
13 to make sure that some of these things are brought into
14 the record through this recording also. I did mention
15 last time that I have been working on this project
16 since about 1997 and I have been a consultant for
17 Dike District 12 throughout this process. This portion
18 of the plan, this permit is found on pages 68 through
19 76 of the EIS. This project is located both within
20 Skagit County and the City of Burlington. The plan
21 for this portion in the City of Burlington is found
22 on pages 62 through 68 in the EIS and that portion
23 is permitted under Shorelines Substantial Development
24 Permit SMA1-12 through the City of Burlington. This
25 hearing was heard on June 20th, 2012 and the appeal

1 period ended in July, 2012. I previously submitted a
2 copy of the minutes from that hearing and that is exhibit
3 18 in the record. I also showed you this vicinity map,
4 which is figure 2 in the Golder Report and in the red
5 here is the area in question on this particular
6 Shorelines Substantial Development Permit. This area
7 right here, this is the portion that has already
8 been permitted through the City of Burlington. Of course
9 these studies also include other areas, the three-bridge
10 corridor and other things that are included in the EIS.
11 This project relates strictly to the enlarging in both
12 width and height of the existing levee in place for the
13 1.53 mile portion within Skagit County. The project
14 extends from the Burlington City Limits at Gardner
15 Road North to the terminus south of the Burlington
16 Northern/ Santa Fe Railroad on Lafayette Road.
17 Construction will occur on top of and landward of the
18 existing levee. This project is undertaken for the
19 protection of life and property in the City of
20 Burlington in Skagit County and for maintenance of
21 flood control facilities relating to the Skagit River.

22 Okay, this is figure 13 in the Golder Report which
23 I showed you at the previous hearing. Again, this is
24 the area that is being worked on and you will see in
25 the red, the pink and the green, these are the type

1 of cross sections in work that will occur along this
2 portion of the levee. I'm just skipping through this
3 because you can read what I submit to you. I also
4 spent some time explaining the difference between
5 certification and accreditation and also I think
6 there was some confusion about the third component
7 which is community rating and I want to make sure
8 we're clear on these different descriptions. The
9 certification, that's the portion that the design
10 team, the engineers, the geotechnical engineers
11 and things, that's what we take and study the
12 existing facility. We do borings, lots of soils
13 tests, do the engineering analysis and do the design
14 criteria to build these levees to meet the requirements
15 of the Corps of Engineers. Then we go out and we build
16 these levees through maintenance and through the
17 construction process and then the engineering team, we
18 certify that this meets that criteria.

19 And that is what we're proposing to do. We're
20 proposing to take these levees to the Corps certification
21 standard. You have a new exhibit that apparently you
22 haven't seen yet where the Corps of Engineers concurs,
23 they expect us to be building these levees through
24 maintenance and through the construction process and
25 bringing them up to their standards. Now the

1 accreditation, that is what FEMA does. We take this
2 certification package, these three hundred documents
3 that we are going to have and the last ten years of
4 work plus our construction process. So we are going
5 to have fifteen to twenty years of data plus the GI
6 study. We are not going to get accreditation until
7 after the GI study is essentially done but we are
8 positioning ourselves to do what we know we have to
9 do. We have to do it whether the GI study is finished
10 or not but that is bringing these levees up to the
11 Corps standards but once we take this package and the
12 GI study is done then we can go to FEMA for the
13 accreditation. Essentially when these levees are
14 accredited they are actually included in the computer
15 modeling that FEMA does or their consultants but
16 the modeling that is done to develop the flood rate
17 insurance maps or the flood insurance rate maps, the
18 FIRM.

19 Now there is also a community rating process
20 and we don't want to confuse the flood levels we
21 see in community rating with accreditation or
22 certification flood levels but that is a process
23 that Margaret can better explain because she is
24 actually in the process of it right now through these
25 updates and things. That is where, when these

1 levees get certified or accepted to a certain flood
2 level then the community gets a break on insurance.
3 They accept a certain level of protection. One of
4 the goals that Burlington has is to get these levees
5 to a 25-year acceptance. We know they have come
6 through flood events from 25 to 50 years but until
7 we do this maintenance work and have these levees
8 built to a better standard of the Corps we're not
9 going to get that 25-year acceptance for the rating.
10 So we have those three different things out there.
11 FEMA does not include non-accredited levees in their
12 flood modeling. Currently there are no certified
13 and accredited levees along the Skagit River. Once
14 levees are accredited by FEMA they can be included
15 in the hydraulic modeling that is conducted to find
16 the 100-year floodplain. This is found on page
17 10 of the EIS. The Golder Geotechnical Study found
18 that the levees in general were already constructed
19 soundly enough to withstand significant flooding,
20 which has been confirmed in the 1990, 1995, 2003 and
21 2006 flood events. These floods have return
22 intervals ranging from 25 to 50 years. The primary
23 constriction in the floodway is the Burlington
24 Northern, Santa Fe Bridge. This bridge can only
25 pass 150,000 CFS and that is found on pages 11 & 12

1 in the EIS. Probably the best explanation of
2 freeboard and how it is applied in this situation
3 is found on page 10 of the EIS. FEMA requires
4 riverine levees to have a minimum freeboard of
5 three feet and in some cases a half of a foot
6 in addition along the length of the tieback levees
7 and an additional foot on either side of structures
8 such as bridges. In other words the top three to
9 four feet of this levee will be freeboard to the Corps
10 and FEMA Guidelines for the certification and
11 accreditation. This portion of the levee is above the
12 floodwater level and does not change the flow of the
13 floodwaters. This is what prevents the overtopping and
14 potential catastrophic failure or breach of the levee
15 during a flood event. At this point there is no proposal
16 for a tieback levee and Burlington and Dike District 12
17 are hopeful that FEMA will consider benefits of conveying
18 some of the peak out of the system. This discussion
19 you will find on pages 10 and 11 The tieback
20 levees can affect upstream and downstream properties.
21 Now if a GI study determines that a tieback levee is
22 required then this would also be needed to be
23 constructed for accreditation. If a high ground
24 tieback is required this could occur to Sedro-Woolley,
25 Sterling Hill or Burlington Hill. This is really a

1 GI question that needs to be answered. The
2 project that we are proposing now is going to take
3 us from five to six years to build. If they tell us
4 that we need to go even higher because of the
5 hydrologic things that work would need to occur.
6 But even in addition to that, if a tieback levee
7 is required that is going to take additional time.
8 What we do know is that these levees need to be
9 brought to the certification levels and the standards.
10 This project has always been an integral part of
11 the GI Study. The discussion on page 10 of the EIS
12 also answers the questions raised by the county on
13 the exceptions to the tieback and because a tieback
14 will likely affect upstream and downstream properties
15 we have been leaving this question for the GI Study
16 to answer. A key component and again I'm quoting
17 from the EIS, a key component of developing the levee
18 certification project is addressing the impacts of
19 the proposed action on the upstream and downstream
20 areas. The choice to proceed with work to certify
21 the current levee gives the GI another five to six
22 years to determine the bigger flood picture reducing
23 the flood risk every year - I'm sorry, I missed some
24 of that. Okay, the hydrology for this project has
25 been performed by three different entities. We have

1 the Corps of Engineers, the NHC or Northwest Hydrologic
2 Consultants and Pacific International Engineering or
3 PIE. Now the difference in the work is found on
4 page 44 of the EIS and there is also - if you look
5 on page 9 of the EIS you will find a little more
6 brief table. This particular project, the choice
7 that Burlington made - and it's all based on the
8 conclusions of the EIS. PIE was a consultant for
9 the county at first and they came up with flood
10 numbers that differed from the Corps, lower numbers.
11 They were a little more realistic numbers in my
12 opinion but that is not to say that being a little
13 more conservative than that - because you can still
14 have flood events greater than a 100-year event.
15 Northwest Hydrologics or NHC was the next - and I
16 think they are still the current consultant for the
17 county and they essentially came in between the two.
18 They made some adjustments on the PIE numbers but
19 still came in below the Corps of Engineers. Now
20 I did submit to you - and it's exhibit 19 in the
21 record, I submitted a draft report dated January
22 12th, 2012 from NHC. Now it's my understanding
23 that at that time they were using the Corps
24 hydrology. The county and the GI Study in moving
25 forward is using those larger numbers. This project,

1 because of the decisions made initially, we have
2 gone with the lower numbers partly because we want
3 to reduce as much risk as we possibly can to the
4 City of Burlington in this floodplain area and to
5 do that we don't feel we need to build it to the
6 higher level now. We can wait until the GI study
7 is done and if they tell us they are going to use
8 those Corps numbers, which is very likely, then
9 we will be raising the levee. The levee design is
10 incorporated so that it can accommodate that
11 additional two or three feet, whatever it ends up
12 being to meet the certification and accreditation
13 at that higher levee standard. But all of this
14 project is about reducing the risk to the City of
15 Burlington - and, actually, Dike 12 when you start
16 looking at the floodplain maps, especially the dike
17 map, if we breach then Dike 1 is affected and every
18 dike district on the west side of the Skagit River
19 is going to be affected because we're upstream of
20 them. If our levees fail then there are going to
21 be other dike districts that are going to be
22 affected.

23 Okay, this is the important part of the EIS
24 showing the effects of this proposed project and
25 this is found on page 47 of the EIS and this is

1 the effects of an uncertified levee using the Corps
2 of Engineers Hydrology. This Map is found on page
3 48 of the EIS and this is the uncertified levee
4 using the PIE hydrology. The difference between
5 the two is basically most of the area floods, I
6 mean there really is no difference. This is found
7 on page 49 of the EIS. This is the effects of
8 flooding and you can see flooding through Gage's
9 Slough. This is a proposed certified levee using
10 the PIE hydrology. This is the project that we're
11 proposing at this time.

12 This is found on page 50 of the EIS. This
13 is the same project that we're proposing with the
14 effect of this levee with the Corps hydrology. As
15 you can see, a large portion of Burlington under the
16 PIE hydrology is affected by the higher flows and the
17 poor hydrology.

18 I also just wanted to note, we spent a lot of
19 time talking about the 100-year events here,
20 something we have not experienced and most of these
21 events that we have experienced are 25 to 50-year
22 events so we are talking about a theoretical
23 event. Okay this map is found on page 57 and this
24 is a base flood elevation map that shows the impact
25 upstream based upon the proposed project and this is

1 to the PIE hydrology and its showing a point one foot
2 base flood elevation impact and this is alternate
3 number two that was included in the EIS and this is
4 the impact be the PIE hydrology for the upstream.
5 Now I the EIS was completed in 2010 and I submitted
6 that January 2012 Northwest Hydrologics Report
7 prepared for Skagit County. Now that was using the
8 poor hydrology and that is your exhibit 19 and that
9 report was called the Northeastern Levee or the
10 Burlington Urban Levee and they performed an analysis
11 for both the 50-year and 100-year events. On page
12 16 the results were point one foot and point four
13 feet respectively at the Sterling area and that is
14 for the 50 year and 100-year events. I wanted you
15 to note that that study also included projects -
16 Mt. Vernon flood wall, which is now under construction.
17 The measures considered in the final work by
18 Northwest Hydrologic Consultants were to find in a
19 series of meetings with the Skagit River flood risk
20 management GI project delivery team and discussions
21 with several of the project stakeholders and none of
22 that work has been held back from all these stakeholders
23 that have been involved in this project from the start.

24 Have I answered your question with regard to the
25 hydrology?

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HEARING EXAMINER: Yes.

MR. SEMRAU: Okay. Alright in summary I'm going to start with quoting again from page 11 of the EIS. In the case of riverine levee in the Skagit River Delta Area the projection goal for Burlington is to have a levee system that will solidly withstand a 100-year flood event, lower base-flood elevations in the city, remove a percentage of the city from the 100-year floodplain and ensure that the established base flood elevations adequately communicate the best estimates of the 100-year water surface elevations to property owners. I think that paragraph summaries our project. We are proposing the PIE hydrology because we felt at the time that was the best estimate of the 100-year and it's a reasonable first target to be spending the public's money to build these levees to and if we're told we need to go higher than we will go higher. If we are going to use the Corps hydrology, which is pretty apparent that the GI Study is using that, then that is what we will do. We have a project here that removes a good portion of the city from flood maps. We can't build these things in one or two years. We have five to six years here just to do what we have got. We know we have got more

1 work and we need to continue to do more work every
2 year to continue to reduce the risk for these areas.
3 Essentially you have a levee improvement project
4 that proposes to minimize the upstream and
5 downstream impacts on the existing conditions
6 while maintaining or enhancing current levels
7 of flood protection and achieving FEMA accreditation
8 of a segment of levee. Most of the new height is
9 freeboard required to certify the levees to the
10 current level of protection. It has no more impact
11 on the upstream or downstream portions of the system
12 as indicated by the NHC 2012 Report. The 20 foot
13 top will provide more stability during an over
14 topping situation and the levee can be further
15 raised in the future to meet the crest, the high
16 Corps hydrology. This alternative of enlarging
17 the upstream levee will not remove the risk of
18 flooding. However, it will reduce the risk of a
19 catastrophic levee failure and make the specific flood
20 risk for each individual property be easier to quantify
21 through modeling of water surface elevations at various
22 river discharges and that's on page 17 of the EIS.

23 So in regards to this actual permit, the
24 Shorelines Substantial Development Permit I did
25 comment in regards to page two that the parcel

1 numbers were not complete. I did submit an
2 additional exhibit letter that summarized those
3 as of the date that I did that work. We have been
4 in the process of continuing with some purchases
5 and exchanges of land so I can't guarantee they are
6 going to be the same next week but they have been
7 updated.

8 HEARING EXAMINER: This list of parcel
9 numbers is a list of those parcels that are affected
10 by the project?

11 MR. SEMRAU: Yes, a list that the levee
12 is on or contiguous ownerships of the dike district.
13 Now you did have a question regarding the mailings
14 and things and the process. We prepare that for the
15 county and we give that to the county. The process
16 that we use, we use the title company to prepare those
17 for us and then we went individually to the assessor
18 maps and pulled up every one of those parcel numbers
19 and confirmed that everyone was included. Now we did
20 an update of that before this third mailing because
21 this was the third time we mailed out to that list.
22 The first list was updated in October and then the
23 second list was the middle of May that we re-updated
24 that list.

25 Development schedule, previously we said

1 construction would start mid July, 2013 and that is not
2 going to happen. So we are probably the middle of
3 August at the earliest, if not next year. So we will
4 wait until we get your findings before we can really
5 update our schedule but we are kind of in a bind
6 for permitting getting fill-and-grade permits and
7 NPDES permits and things. So it will start as soon
8 as we can and if we have the weather. Pretty much
9 work occurs from July to September and that is when
10 it will occur as soon as we finish this permitting
11 process.

12 So I also commented on number 11. My comment
13 there, because we had submitted the 2012 Northwest
14 Hydrologics we felt that section should reference
15 that, as that was part of our materials that we had
16 submitted. Number 13 on page 10, I wanted to be
17 sure that the wording in that section does not
18 preclude us from being able to get the one year
19 extension. It says five years, the current code
20 language and also and I can't remember if it's
21 the WAC or the RCW, it's five years plus a one
22 year extension. We certainly have enough work under
23 this permitting that we would want make sure we have that
24 option for that sixth year and that's from when we
25 pulled the permit. So if we get into a situation

1 where we can't effectively do work this summer we're
2 going to pull the permit next summer and we need
3 that five to six years to do that work. Also, just
4 briefly in summary, those exhibits 22, 23 and 24
5 were letters prepared by myself. One was the parcel
6 number discrepancies. One was in regard to fill
7 and grade permit 070267. That permit I mentioned
8 in the previous hearing, that we had applied for
9 the extension of that permit and we have now received
10 that extension and that permit will expire November
11 14th, 2013. Again that is new information since
12 the previous hearing and since I submitted that
13 last letter. But that permit has been extended and
14 that work will continue this summer. I also
15 submitted - there is a summary of our permitting
16 activity within this area. There was some other
17 testimony about areas outside of this particular area
18 and we were just trying to limit it to here but
19 we permit everything that we are expected to permit
20 here. So, unless you have any other questions.

21 HEARING EXAMINER: Just going back
22 to the very beginning of your testimony you were
23 trying to tell me the difference between certification
24 and accreditation. Certification you went into how
25 that is designed and somebody takes a lot as to

1 whether it is properly built from an engineering
2 standpoint. Who does the certifying, is that the
3 Corps or do you get a certification from somebody?

4 MR. SEMRAU: It's the engineering
5 design team.

6 HEARING EXAMINER: Okay, so it's a
7 team of people who are working on this?

8 MR. SEMRAU: That's correct, it's
9 the same team who has prepared the plan and there
10 is a Corps standard and we have studied it and
11 designed it, the improvements, to meet that Corps
12 standard. Now the district needs to build it and
13 then once it's built and it actually meets that
14 standard that was outlined in the design then
15 the engineering team is the one who certifies it.
16 The Corps of Engineers no longer certifies levees.
17 They used to in the past but they don't any more.

18 HEARING EXAMINER: Okay, assuming
19 that all happened then you take that certification
20 that the engineering team has given you to FEMA
21 and they then look at the question of accreditation,
22 is that right?

23 MR. SEMRAU: That's correct but then
24 again if you get to the GI Study we need to be
25 consistent with the GI Study, so if the height

1 isn't correct - I mean once we certify it to the
2 level that we have designed today -

3 HEARING EXAMINER: I understand
4 that if the design GI team comes up with something
5 else you may have to go back to the drawing board.

6 MR. SEMRAU: Right, but the city,
7 after we certify it, can take it for community
8 rating, so every part of this process is going to
9 give the public benefit and that is why we're doing
10 this.

11 HEARING EXAMINER: Alright, thank you
12 very much. Anything else on behalf of the applicant
13 here? Sir? Okay this is a written version basically
14 of the kinds of things you were just telling me?

15 UNKNOWN SPEAKER: Yes.

16 HEARING EXAMINER: Okay, what
17 exhibit number are we up to? This will be exhibit
18 32 and we will admit it for the record.

19 **(Exhibit #32 Marked)**

20 HEARING EXAMINER: Now, sir, will you
21 state your name?

22 MR. LEFEBER: Yes, my name is Dan
23 Lefebber and I'm the operations manager for Dike
24 District 12

25 HEARING EXAMINER: Alright, I'm

1 going to swear you in.

2 **MR. DAN LEFEBER**

3 Having been sworn to tell the truth in this
4 matter, testified on his oath, as follows;

5 MR. LEFEBER: Because the question
6 has come up based upon the last hearing and these
7 are copies of the notice mailings that came to the
8 dike district because the dike district owns many
9 of the parcels adjacent to and where the levee is
10 situated. So right in the corridor of the project
11 that is proposed and I have substantiation that
12 that mailing took place if there is question for
13 the properties all in general, not just the ones
14 that the dike district own. But if you would like
15 that as an exhibit, I'm not sure.

16 HEARING EXAMINER: It's up to you.

17 MR. LEFEBER: Okay. And again I
18 would like to show on a map and I brought a larger
19 rendition, so maybe it will show a little bit
20 better those parcels that these mailings connect
21 to so there is a good understanding of the lay
22 of the land and the impacts of the project on the
23 neighboring lands.

24 HEARING EXAMINER: Okay, you have a
25 map?

1 MR. LEFEBER: Yes, I do.

2 HEARING EXAMINER: Okay. So we will
3 call your mailing notices exhibit 33 and the map will
4 be exhibit 34.

5 (Exhibits 34 & 34 Marked)

6 MR. LEFEBER: Would you like them now?
7 I'll show you the map and bring them to you.

8 HEARING EXAMINER: Do you have more
9 testimony?

10 MR. LEFEBER: Not really more testimony
11 I can either show the map on the overhead or just
12 include it and you can recognize the parcels.

13 HEARING EXAMINER: Give it to me and
14 I'll take a look at it.

15 MR. LEFEBER: Okay.

16 HEARING EXAMINER: So what the witness
17 was showing me is properties that the district owns on
18 the map that are within the project. Would you like
19 more time to speak?

20 MR. LEFEBER: Yes.

21 HEARING EXAMINER: Sure.

22 MR. LEFEBER: So I would also like
23 to state for the record that I believe the dike
24 district's mission all along is to have this consistent
25 effort towards improving public safety for lives,

1 property, infrastructure. I think we're all pretty
2 aware of what happens to the community if a little
3 infrastructure is damaged these days and that we
4 desire to do our best to protect those types of
5 things. As mentioned earlier, because of the weather
6 and what happens with soil moisture for materials being
7 imported and existing conditions at the site, we
8 usually only have two to three months a year. So
9 we have to be as efficient as we can and take
10 advantage of those work window opportunities to
11 have this consistent effort. That's why it has been
12 ongoing for many years as the dike district was
13 originally formed in 1895 by farmers to protect farm
14 area and the surroundings and so it's just this
15 consistent effort that has been ongoing and I don't
16 think it is really out of line when the district was
17 formed for all those years ago and is continuing to do.

18 I think that is really the gist of it.

19 HEARING EXAMINER: Alright thank you
20 very much. If that concludes the applicant's - did
21 you have something else?

22 MS. ELLESTAD: Yes.

23 HEARING EXAMINER: Try to speak into
24 the mic so the machine hears you. You're Lorna
25 Ellestad?

1 MS. ELLESTAD: Yes.

2 HEARING EXAMINER: Alright, let me
3 swear you in.

4 LORNA ELLESTAD

5 Having been sworn to tell the truth in
6 this matter, testified on her oath, as follows:

7 MS. ELLESTAD: Because of differences
8 in hydrology as has been discussed today it kind of
9 delayed, funding delayed but I would like to point
10 out that the community has been utilizing information
11 from this GI and I'll just throw out there since
12 1999 when they completed a work group where a lot of
13 the community - and particularly dike district
14 commissioners were involved and dike 12 started to
15 purchase properties in anticipation of some of these
16 larger projects the City of Burlington put a building
17 moratorium in place and Dike #3 utilized Corps
18 information, water surface elevations to establish a
19 new levee height when the established a setback levee.
20 The City of Mt. Vernon utilized Corps information, GI
21 information when they began designing their flood wall
22 and they currently have a four foot extension on their
23 levee system as well. It is the enhanced brick concrete
24 wall that looks a little different from the structure
25 that we're proposing but, again, that structure is

1 parallel to the flow and the structure we're proposing
2 is directly perpendicular to the main course of the
3 Skagit River and a breach at that point has the
4 potential to capture the entire river and then it's
5 not always so easy to put things back as we are finding.
6 I would also like to mention a couple of other projects
7 that have utilized the GI information to date. The
8 majority of the improvement work completed by other
9 districts have engaged the county technical staff
10 in particular when Tori Nelson was working on the GI
11 and myself would provide the water surface profiles
12 developed by the GI. We had worked with them to
13 establish a levee profile and in particular in the
14 rural levees we do not put this freeboard. The
15 purpose of the Skagit GI was to try to provide
16 100-year protection for our urban areas and less
17 than that to the rural areas. A point I would like
18 to make on that is when the GI is completed, the
19 purpose of a GI from a federal standing is to
20 establish a federal interest or economic interest
21 in assisting a local community to provide flood
22 protection and they will do so at whatever the
23 benefit to cost ratio supports. So when they
24 finish what they have been trying to identify and
25 we have been working with damaged areas and

1 they're currently looking to identify the benefit
2 area from the proposed alternatives and then they
3 will come up with a curve that will establish at
4 what level they will participate in funding those
5 projects. If at the end of the day a worse case
6 scenario for our urban areas where the Corps
7 determines they can't justify a 100-year protection
8 there are two things the community can do. One (1)
9 they can accept that or they can buy up the project
10 and assume 100 percent of the cost of the difference
11 in that. And so as a member of the responsible
12 party, as a dike district commissioner, we are taking
13 our annual budgets - and I'm sorry that Steve Sexton
14 had to leave but were working as diligently as we
15 can to participate at a known level when projects
16 are identified, when areas have been determined to
17 be beneficial or an integral component of whatever
18 they final alternative would be and that is where
19 we're at and I would like to thank our engineer
20 John Semrau for going through some of those
21 alternatives because there is an alternative in this
22 levee project that could extend - and I notice the
23 Corps has actually picked one of those alignments
24 as part of their alternative that would then make a
25 determination on where the rest of the water goes.

1 I believe the current modeling is fifty-two thousand,
2 existing conditions would lead the system at Sterling.
3 But our district and our city and I'm going to speak for
4 Burlington, has chosen to wait and participate in the
5 bigger study to determine what is the cost effective,
6 most beneficial to our community on how - and Sterling is
7 the big unknown.

8 So the other thing I would like to mention is
9 that - I'll mention one other project, the Anacortes
10 Treatment Plant also utilizes Corps information and
11 the GI information when they put in their sixty-million
12 dollar improvement and so they, too, couldn't really
13 wait for the GI to maybe reroute water away from their
14 structure but had to move forward because economically
15 risk-wise sometimes you just have to do these things and
16 they, too, had been collecting kind of a war chest to get
17 that done. And as our engineers spoke, we have been
18 working on this project acquiring land since 1999
19 and we still are probably half-way there when it
20 comes now to this construction phase where we can
21 start constructing this.

22 I would also like to address the FEMA risk
23 mapping that is going on. I think most of the folks
24 in this room have seen some type of presentation on
25 what the preliminary, new base flood elevations

1 would be. They are significantly higher than the
2 current ones and I know one of the concerns on this
3 project is does this project raise the base flood
4 elevation by a foot and then be in violation of the
5 floor ordinance I believe. The new base flood
6 elevations would be three to four feet higher in
7 Burlington and even higher in this location. By
8 constructing this project - and this community was
9 very instrumental in getting FEMA to readdress their
10 levee mapping policy because they completely ignored
11 these levees that have withstood some significant
12 flood events and by getting this type of geotechnical
13 work in place and levees constructed we can ensure
14 that our community is able to have this levee
15 represented in those flood models, not at the
16 100-year certified level but at the current level
17 of protection. Currently their mapping policy removes
18 the entire levee. So that is the significant benefit
19 to the community and it is also able to provide a
20 non-geotechnical structure. One of the things - and
21 I have been back to DC several times and I'm part of
22 national levee task force and I'm also a member of
23 the national levee safety committee and we have been
24 looking for ways to utilize both local information
25 and utilize Corps information from your PL8499 program

1 so we can start building a data base so they can
2 make a determination on what level existing levees
3 will be included in the mapping and in particular,
4 for our community, there is a really big deal.

5 Again I think I heard at some point in the earlier
6 conversation that hydrology and hydraulics was
7 going to be used interchangeably and I just want
8 to make note that while there are some disagreements
9 over the hydrology, it is the hydraulic modeling
10 that has been performed for this project and, basically
11 in a nutshell, different hydrologies and how deep the
12 hydraulics and where and this project has had multiple
13 hydraulic modeling runs performed. NHC, through the
14 county's contract is the Corps' contractor as well. So
15 we think we have kind of landed on some common
16 ground on how to address this. But one other reason
17 for the amount of freeboard that is required by
18 FEMA is that there is an 8% uncertainty band in
19 all of this data that we would like to take as,
20 you know, verbatim that we have something we can
21 count on but an 8% uncertainty band when you are
22 looking at the two hundred and thirty-five
23 thousand (235,000) CFS is a significant degree of
24 uncertainty and that is one of the other reasons
25 why you want to have this freeboard. And the reason

1 we are also going with the long, overtopping slope
2 is that in the event we do get some overtopping
3 our levee can withstand and doesn't start on a
4 breach that would widen at a rate of like 100
5 feet a minute. I mean they have calculations
6 on that and we would end up with the entire
7 river running through and on out, flooding La Conner.
8 And that was on other point I wanted to make on
9 the GI, that it has been a two-way street on
10 the technical exchange and that as part of the GI
11 we incorporated the City of Sedro Woolley's sewer
12 treatment plant, ring configuration that they
13 had been kind of looking at over the last ten
14 years. We have incorporated ring - Dike 12 has
15 been working with United General Hospital to
16 develop in the past. The GI incorporated the
17 flood wall and they incorporated all the soil
18 work, the hundreds of thousands of dollars-worth
19 of soil work that has been performed by the City
20 of Burlington and Mt. Vernon. They incorporated
21 La Conner's flood study on the ring dike that they
22 are proposing and then eventually they incorporated
23 the Anacortes water treatment. So our community has
24 had this hand-in-hand working relationship with the
25 Corps/county GI and that it hasn't been this wait

1 and you're going to get this - we used to refer to
2 it as "our silver bullet". And so I see our
3 community continuing to work through this and support
4 our congressionals as we work to finish this and
5 get it approved and get it authorized. But right
6 now we're in a situation where we can't wait and
7 expect someone to come in and have a large checkbook
8 and fix things, because if that was at all true we
9 would be getting a nre bridge over I-5 that was longer
10 in length to accommodate an eventual flood risk
11 reduction project similar to how the Mt. Vernon
12 Bridge was built so that there were additional
13 piers put so that it could be extended if necessary
14 but that is just no a current or realistic,
15 immediate financial prospect and that we're going
16 to have to continue because this is a life-long
17 endeavor. I personally have been involved with
18 flood fights for - I think I was probably about
19 six the first time. My dad was living on Fir
20 Island and my father, Virgil Ellestad, was involved
21 with levee repairs for probably thirty years before
22 I went to school to be able to have some technical
23 input into solving the problem.

24 So I would also like to ask if there are any
25 questions that you think I could help answer?

1 HEARING EXAMINER: I don't think so

2 MS. ELLESTAD: Alright. Well, thank
3 you for giving me the opportunity to enter some
4 technical information into the record.

5 HEARING EXAMINER: Alright, anyone
6 else on the applicant's team who wants to speak?
7 If not, let's take five minutes to relax and we will
8 hear public testimony and then we will finish up.
9 Thank you.

10 (RECESSED at 10:40 AM)

11 HEARING EXAMINER: I don't know
12 what happened to our counsel and engineer but we
13 can start. Okay, I'm calling the hearing back
14 to order.

15 (RECONVENED at 10:46 AM)

16 PUBLIC TESTIMONY

17 HEARING EXAMINER: This is the time
18 for public testimony, so anyone who wants to be
19 heard on this matter should come up and give their
20 testimony at that microphone.

21 MR. KUNZLER: Mr. Examiner do you want
22 to swear me in?

23 HEARING EXAMINER: Well, just tell me
24 who you are.

25 MR. KUNZLER: Okay but do you want to -

1 HEARING EXAMINER: I will swear you in.

2 LARRY KUNZLER

3 Having been sworn to tell the truth in this
4 matter, testified on his oath, as follows:

5 MR. KUNZLER: I do have some exhibits I
6 want to enter.

7 HEARING EXAMINER: I didn't get your name.

8 MR. KUNZLER: Larry Kunzler.

9 HEARING EXAMINER: Okay.

10 MR. KUNZLER: I do have exhibits that I
11 want to submit into the record.

12 HEARING EXAMINER: Okay. Where are we
13 with exhibits

14 UNKNOWN SPEAKER: The next one would be
15 35.

16 HEARING EXAMINER: Alright Mr. Kunzler,
17 go ahead.

18 MR. KUNZLER: Thank you, sir. In late 1999
19 I was approached by the chairman of Dike District 12,
20 he was a farmer and a good man and a good friend. He
21 told me that he had found some mystery mud while putting
22 in a Keyway project and he knew I was working with
23 geologists down in Kelso on that huge landslide that
24 took place where over 57 homeowners lost their homes
25 because a city councilman fired a geologist who told

1 him not to build there. So he gave me a huge - it
2 was like a soccer ball sized chunk of this mud and
3 gave it to the geologist, the same one who works
4 for Dike District 12 now and he stated that the
5 hand specimens that the hand specimens are composed
6 of yellow stray weakly interrelated silt, non-
7 plastic monolithic sediment. (phonetic) I guess
8 that means a lot to Mr. Cooper but it doesn't mean
9 much to me. I brought an actual jar of mud and
10 this is the mud in question that he found.

11 HEARING EAMINER: We don't really know
12 how to deal with a jar of mud.

13 LARRY KUNZLER: Yeah really and I
14 don't either. I also brought - and this was given
15 to me by the Anacortes Water Treatment Plant on August
16 18, 1992 when the Skagit River ran chocolate brown
17 and all of that material that came down was from the
18 Shot (phonetic) Glacier on Glacier Peak. The problem
19 I have with the Golder Report that the dike district
20 relies on, all 393 pages of it is that it only mentions
21 the word lahar twice and in one of those where they
22 mention the lahar it states - well, anyway, it says
23 that they treated the entire thing as volcanic
24 outwash. In other words they did not make a distinction
25 between the actual volcanic lahar and the stuff that

1 comes down the river from the volcano on every single
2 flood event, which is what this little jar would be
3 and then this is the actual lahar that Chuck had me
4 get tested for him. Five days after I got that
5 letter Chuck Bennett (phonetic) asked me to give a
6 presentation to the Skagit River Flood Control
7 Meeting on what I found and that begins on page 6. It
8 says "Kunzler then presented a short presentation of the
9 volcanics of the Skagit River Flood Plain and he had
10 been contacted by flood committee chairman Chuck Bennett,
11 some strange mud that chairman Bennett found while
12 working on the Keyway Project in the vicinity of the
13 Burlington Sewage Treatment Plant". I had the mud
14 annualized by the geologist and he said it was
15 volcanic tuff or in translation for a lay person's
16 terms, it is a volcanic lahar. What I did was - and I
17 won't do it here today but I used my Mr. Roger's
18 interpretation and I took the mud out and I put it
19 in my hand and shook it to show the liquefaction part
20 and - Mr. Cooper, you have no idea how envious I am of
21 you for having a geology degree because Skagit County
22 is one, big geologic happening and you have got
23 everything here. You've got active earthquake faults
24 you have got volcanos, you've got floods. In my public
25 presentations I have always used the comment that

1 "mother nature has left her footprints in the sand
2 and if you walk in her moccasins she will show you
3 her past and in so doing she shows you her future".
4 I found it interesting in the FEIS that they gave
5 some smart-aleck answer to some of my concerns on
6 the draft EIS and it was said there is lots of
7 information out there about the geology, see Beget
8 (witness spells) and Dragovich. What evidently they
9 don't know is that I had been in personal contact
10 with Mr. Dragovich over 13 years ago and he gave me
11 a portion of his study for DNR before it was actually
12 released publically and I quoted from it at this
13 meetings; "the sediments contained abundant bayside
14 fragments and appear to be Lahar run-out deposits.
15 These deposits are exposed in 10 to 50 foot high
16 terraces" - you can see them, the county had a
17 project, they were looking at buying out Cockreham
18 Island and it shows these lahar deposits all along
19 Highway 20. It goes on to say that "the lahars
20 underlie the flood plain in the cities of Burlington,
21 Sedro-Woolley, Lyman and Hamilton and much of the
22 agricultural area of the lower valley. We have traced
23 the stratum, both exposed and buried to the vicinity
24 of La Conner". So this is something that is missing
25 in the Golder Report that the dike district is relying

1 on. They should have located the lahars, especially
2 near the sewage treatment plant and under the Dike
3 District 12 Levees.

4 Okay, enough about mud. I'm probably going to
5 be the most controversial speaker you will have here
6 today but it's a hat I'm used to wearing. There
7 is a huge question as to whether or not any of Dike
8 District 12's levees should be raised because of one
9 word, floodway. This actually first came to the valley
10 in 1981 when we had a very controversial building
11 official in the City of Mt Vernon. He wrote to FEMA
12 "if the designated floodway included all of our
13 existing dikes would we be able to maintain the dikes,
14 repair the dikes or increase the dikes as needed".
15 Later, on July 17th, 1981 FEMA responded: "If a
16 floodway is designated in the future and the dikes
17 are included in that zone you would be able to maintain
18 and repair the dikes to their present profile
19 elevation, raising the dikes is another matter.
20 Hydraulic studies of the river have shown that
21 increasing the height of the dikes would cause an
22 increase in flood levels upstream. On that basis
23 your ordinance would have to prohibit such improvements".

24 Later, 1982 FEMA wrote a letter to the mayor of
25 the City of Burlington, "concerning floodways in the

1 Lower Skagit Delta we have ruled out floodways
2 developed either through the conventional equal
3 conveyance methods or through unsteady state flow
4 modeling at this time. Instead we have decided
5 to build on and refine your thoughts regarding
6 density criteria in conjunction with establishing
7 a minimum floodway that will encompass the channel
8 and overbank areas including the levees".

9 In April, 1982, FEMA had hired Dames & Moore
10 to do the hydraulic analysis for the density
11 floodway and the instructions Dames and Moore
12 received was as a result of meetings held in Region
13 10 during the week of March 15th, 1982; it was
14 determined that "a conventional floodway would not
15 be established for the communities within the Skagit
16 Delta Area. These include Skagit County, the Cities
17 of Burlington and Mt. Vernon and possibly others.
18 These communities should show floodways delineated
19 to include only the main channel of the Skagit River
20 and the levees".

21 At this time I think it appropriate that I
22 explain to you the difference between a conventional
23 floodway - I don't know how familiar you are with
24 Skagit County but take Hamilton and there is a
25 mountain, the land, the town, the river, more land

1 and then more mountains on the other side and they
2 take the floodplain the conventional way and they
3 squeeze it together until the water surface raises
4 one foot and then everything in between that is
5 prohibited from putting landfill in that area.

6 The next exhibit is the Dames and Moore Report
7 in December of 1982. The good 'ole boys' in Skagit
8 County at that time had thought that they could put
9 a floodway using the density criteria and leaving
10 twenty-five percent of each parcel of property open
11 and then they could develop the rest of it.

12 On the next page, page 9, it states, "the
13 density criteria" - now remember they took into
14 consideration the entire lower valley; "the density
15 criteria varies from 5 percent to 14 percent
16 depending on the flow path and lot size. For example
17 suppose the landowner wishes to construct a building
18 on a one-acre lot in flow path 4, the tables shows
19 that the owner can raise a maximum of 10 percent of
20 his property. So, to make floodplain regulations
21 easier to enforce, a ten percent density criteria
22 for all flow paths and lot sizes is recommended".

23 Needless to say, that was not adopted in Skagit
24 County but I do think for purposes of the record
25 that if you drive over to Burlington and just look

1 east of Interstate 5 you can determine that more
2 than ten percent of the community has been developed.

3 In August of 1983 FEMA - and I don't know what
4 the proper terminology here is and if John and I
5 were in court we would ask you to take judicial
6 notice but I'm asking you just to recognize that all
7 of these letters that I'm going to submit to you
8 from this point on come from Washington DC and they
9 made the decision to designate the levees as part
10 of the floodway. They said "because of the lack of
11 adequate topographic mapping and field survey data it is
12 not possible to determine the distribution of flood
13 flows between Burlington proper, Gage's Slough and
14 overbank areas. The 63,000 CFS discharge" -- identified
15 by John Norman who was a hydrologist with the Corps
16 of Engineers before he had his own firm hired by
17 the Cascade Mall Developers "is not supported by any
18 scientific or technical data and must be considered
19 as speculation". But that didn't stop Burlington from
20 building the Cascade Mall. "From a qualitative
21 perspective we agree with your conclusion that Gage's
22 Sough is a conveyance area which should be protected"
23 and then it goes on to say "part of this requirement
24 will be to ensure that no new construction,
25 substantial improvements or other development

1 including fill is permitted within the zones of the
2 flood insurance rate maps unless it is demonstrated
3 that the accumulative effect of a proposed development
4 when combined with all other development will not
5 increase the water surface elevation of the base
6 flood more than one foot at any point in the community".
7 And that last part is perhaps the most important
8 because if you raise your levee to a one hundred year
9 event are you not raising the level at that part
10 in your community and then the ramifications of
11 that is you're done building. Burlington will not
12 issue another single building permit.

13 So they haven't really thought this through they
14 way they should have. December 15th, 1983, section
15 60.3C10 of the program regulations and that is quoted
16 substantially throughout the EIS and again the most
17 important thing to me is that it states the base
18 flood more than one foot at any point in the
19 community. February 1st, 1984, a letter to the mayor
20 of the City of Burlington: "Conventional floodway
21 analysis was not considered appropriate due to the
22 unpredictability and variability of flow paths
23 between various flood events, which is complicated
24 by uncertainties about where the levee failure will
25 occur. The sequence of the failures in volumes of

1 flow thus only lands within and including the Skagit
2 River levees were designated as floodways in the
3 conventional manner". And that throws us back to
4 the example I gave you in Hamilton, that no fill
5 is allowed in the conventional manner of determining
6 a floodway. I raise the question about who is the
7 legal authority - I'm getting ahead of myself:
8 "However FEMA recognizes the majority of the overbank
9 flow occurs over Interstate 5 in the vicinity of
10 the George Hopper Interchange between Gage's Slough
11 and the drive-in theater" - and the drive-in theater
12 is now the Target Store - "and from near Edison High
13 School to just south of Cook Road" there are all
14 kinds of developments that are put in, in that
15 location as well. Approximately 80 percent of
16 the total overbank flow crosses the highway in those
17 segments. April 9th, 1984, a letter to the state
18 department of ecology. They objected as I objected
19 to FEMA's flood insurance study and they state "the
20 elevation of the street intersection" - and they're
21 talking about downtown Burlington, "is 34 feet mean
22 sea level, which would make the flood elevation be
23 about 37 feet. The FEMA Map showed the elevation
24 of the 100 year frequency flood of 240,000 CFS
25 to be about 31 feet in that location".

1 On May 22nd, 1984 and again FEMA from Washington
2 DC wrote to the Mayor of the City of Burlington and
3 this was s response to the department of ecology
4 letter: "Since the Skagit River levees are inadequate
5 to contain the local 100 year discharge of 240,000
6 CFS our hydraulic analysis was performed as though
7 the levees did not exist". And that has always been
8 a huge contention of mine and it's why, when the
9 Burlington Planner makes public statements in the
10 draft EIS as well as at many public hearings that
11 I have attended, that FEMA adopted a project failure
12 point of Sterling, that is untrue because they
13 determine their flood elevations as if the levees
14 did not exist at all. And so when the City of
15 Burlington issues letters to developers that they
16 can tell the people who buy these homes that they
17 are out of the 100 year floodplain when they are
18 really, only 100 yards away at the most from the levee
19 itself. Those levees break and those people are
20 definitely in the 100-year floodplain.

21 FEMA is on the next page, paragraph 6: "FEMA's
22 analysis, which assumes failure of all levees along
23 the Skagit River therefore results in lower
24 elevations for the Avon Area. Any given area near
25 a levee that fails may experience flooding more

1 severe than that showing in the preliminary FIS",
2 flood insurance study. November 1st, 1984,
3 "conventional analysis, floodways are to be kept
4 free of encroachment and that would include the
5 levees themselves". Here is a memorandum for the
6 record and fast forward to 1996 from Joseph Weber
7 the program manager. He used to be a hydrologist
8 with FEMA and then he went to work as a floodplain
9 manager for the Corps of Engineers and then he went
10 back to work for FEMA and now he is retired but
11 this was pulled out of the Corps files: "Conventional
12 floodways were not adopted for the entire delta
13 downstream of Sedro-Woolley in this area of the
14 Skagit River proper. The levees confining the
15 channel and adjacent areas have been designated
16 as floodways in the vicinity of Whitmarsh Road" - and
17 this is when I first started complaining about
18 four feet of fill on the riverward side of the levee
19 along Whitmarsh that wasn't there during the '90 flood
20 event and what the dike district has never told the
21 residents of the City of Burlington is that the flood
22 waters were in the process of crossing Whitmarsh Road
23 in that location. So I understand them wanting to
24 put four feet of fill but they are still putting
25 four feet of fill in the floodway and the reason

1 I know the water was crossing this is because I
2 drove over there and you could tell exactly where
3 the high waterline was of the river at that time.
4 Joe Weber goes on to state: "As long as any repairs
5 we make to the Skagit River Levees replace them in
6 kind we comply with that standard". All of the work
7 they have been doing is improvements, they're not
8 maintenance. Why the county and the City of
9 Burlington issued them permits for maintenance work
10 I don't know but when I stated they didn't have
11 permits -- I mean where are the floodplain permits.
12 You know I don't really blame Mr. Semrau or Mr.
13 Schultz because if I had a client and a city
14 government official tells me I don't need a permit why
15 the hell would I want to go and force them to get a
16 permit. So I don't really blame them or the dike
17 district but I do blame the county and city officials
18 who have allowed this to continue for so many years.

19 This you are going to find kind of humorous.
20 This is a nasty email exchange between myself and
21 FEMA in 2001. This is a response by a young man
22 named Patrick Massey who worked for FEMA. He says:
23 "First your entire long argument about the lack of
24 enforcement accumulative rise standard of section
25 60-3C10 is wrong. Section 60-3C10 only applies to

1 developments in floodplains where a floodway has not
2 been designated, since a floodway has been designated
3 along the lower Skagit within the levee, 3C10 doesn't
4 apply. Yes, the floodway established in 1985 is
5 located between the landward toe of the levee". So yes,
6 this means that there can be no fill or other
7 development outside of the original cross section
8 located within this designated floodway. By the way
9 there is a regulatory floodway. I don't know what
10 your point is about just being a floodway and not a
11 regulatory floodway, the two terms are synonymous. If
12 the development has occurred between the levees this
13 would be NFIP compliance issue. Have the levees been
14 raised or widened since the community jointed the NFIP
15 and the firms were published in 1985. If so, this
16 would be a violation of D-3. Were these fills used
17 to improve the levees or simply return them to their
18 previous condition. Obviously four feet of fill on
19 the river - side of a levee is an improvement. I
20 don't know why the words maintenance and improvement
21 are so difficult for some in this room to understand.
22 Maintenance, given its ordinary definition means you
23 have something, it breaks, you fix it. Improvement
24 is when you make something better, so when you put
25 in Keyways that is an improvement. When you put in

1 an extra four feet of fill that is an improvement,
2 it is not maintenance. This entire charade of smoke
3 and mirrors by the City of Burlington and Dike
4 District 12 is really - I just don't understand.
5 It's not a maintenance project. They are not fixing
6 anything they are improving it. So that requires
7 permits, it requires floodplain permits on behalf of
8 the county and the city and there are none.

9 The grading permits, who goes out and inspects
10 that what they did was what the grading permit
11 authorized them to do. I know for a fact that when
12 they put in the keyways they backfilled onto the
13 levee in the floodway next to the Skagit River.
14 They did not take that material out of the river
15 channel, they put it in the river channel. Then Mr.
16 Massey goes on to call me a Muslim, so I don't know
17 what that was all about but he, evidently, has got a
18 problem. The fact is a lot of the letters I
19 submitted to you I submitted these same letters to
20 FEMA. I have been submitting them to the City of
21 Burlington for many years. I submitted them on
22 my comments to the draft environmental impact
23 statement and I will submit them to you here today. I
24 heard earlier testimony from the applicant that
25 everything was addressed that was on the draft EIS.

1 These people didn't address half of what I stated
2 in here and you as the examiner and Mr. Shultz as
3 an attorney and me as a person who has worked for
4 attorneys for the last 34 years, you know sometimes
5 it's much more important what they do not say than
6 what they do say. I submitted in here portions of
7 the letters that I have given you today. They
8 ignored them. You won't see those addressed anywhere
9 in the FEIS. You will not see the map that I
10 submitted anywhere addressed in their EIS and then
11 here, this to me is an example of an applicant speaking
12 out of both sides of his mouth at the same time. On
13 page 14 I quote from the draft EIS and it says
14 "extensive levee enlargement work has been in the
15 process since 1990 by Dike District 12". Well of course
16 it was. That includes that 4 feet of fill they put
17 along Whitmarsh Road riverward of the existing levee.
18 But again, extensive levee enlargement, that is not
19 maintenance work, that is an improvement and
20 improvements require permits. Their final environmental
21 impact statement, again to me - and you know who I used
22 to work for and my job for 20 years was to review
23 environmental impact statements. An attorney would
24 come in and drop the draft on my desk and say take
25 it apart. That is what I did for them for their

1 clients and a lot of their clients had big "W's" in
2 front of their names - very important companies in
3 the State of Washington that we built developments
4 for and we also built all the Eagle Hardware Stores
5 in the State of Washington. The one permit they
6 kept away from me was the Mt Vernon permit because
7 that permit got approved in like 12 days and they
8 knew I would be opposed to putting all that fill in
9 the floodplain and so I didn't really find out about
10 it until the construction took place. It says in
11 the EIS that "in addition FEMA included as floodway
12 areas lying within 300 feet of the landward toe of
13 the levee". That would be the area that they now
14 want to put fill in - and again, I have nothing
15 against them turning their levees into overtopping
16 levees, I really don't, that's a sound and safe
17 thing to do. But the regulations with the federal
18 government say you can't put fill in that area and
19 yet they are anyway. This I find an interesting
20 comment. Burlington recently conducted a study
21 to determine the accumulative amount of fill from
22 1985 to the present. The documented rise across
23 Burlington is point three seven one feet. (.371)
24 You know I really looked, I spent a lot of time
25 over the weekend going through all of their

1 documentation and I don't see that study anywhere
2 in the EIS. I'm hoping you would require that as
3 part of - before you would approve their permit so
4 that it can receive public scrutiny, because it's
5 one thing to make a statement and it's something
6 else to have the engineering to back it up. They
7 again make the same statement on page 38 where,
8 based on the record, accumulative fill from 1985,
9 Burlington, is well below the limit. And again I
10 submit to you that if you raise the 100-year flood
11 level on the levee are you not raising it
12 accumulatively above the 100-year flood level and
13 the answer has to be yes, why else would you raise
14 it.

15 Finally I would like to submit to you - this is
16 one of things that Mr. Shultz in his letter to you
17 being so outraged regarding my comments that I
18 submitted to you the last time. He doesn't mention
19 this. In fact I submitted it to the City of
20 Burlington and they don't mention it. I submitted
21 it to Dike District 12 and they don't mention it.
22 This is the result of an hydraulic analysis performed
23 by NHC on how much the levees already impact the
24 upstream property owners. It was entered into a
25 court of law in Snohomish County under cause

1 #93-2-05201-2, so it is a matter of public record.
2 NHC was paid approximately two hundred and fifty
3 thousand dollars to conduct this. So if you follow
4 the river down, Burlington in their EIS and the dike
5 district commissioners want to continually blame the
6 railroad bridge and something I have to add which was
7 stated here earlier was that Burlington is using the
8 January 12, 2012 NHC report. In that report on
9 January, 2012 Dr. Latham (phonetic) did not know that
10 the railroad bridge does not backup any water on
11 anybody. It is the constriction of Dike 17 and
12 Dike 12 just west of the freeway where the two come
13 together, that is what is backing the water up as
14 well as the current levee up there. And you can see
15 as you go down the channel it has already been
16 raised seven feet, eight feet. Where does that
17 fit in to allowing them to raise it even more.

18 One other last thing that was stated about
19 them using NHC's report of January 12th and this is
20 before Dr. Latham realized that the water does not
21 flow that goes out at Sterling, does not flow between
22 Burlington Hill and Sterling Hill, it goes straight
23 to Gage's Slough straight out to Bayview Ridge and
24 from Bayview Ridge it splits to the Samish and
25 Padilla Bay. Like the young man said from FEMA, I

1 would have put a floodway through there 20 years ago
2 because that's where it belongs. So in reality,
3 when you look at this, the water that is going out
4 in Sterling and flooding the area north of Highway 20,
5 the dike district is flooding their own people. If
6 I was a resident along Highway 20 - and a lot of those
7 people are inside Dike District 12, I would be suing
8 the shorts off that dike district because I have been
9 paying that dike district all these years for
10 protection and they are the ones responsible for
11 backing the water up into my house. So, with that,
12 sir, thank you very much and I really applaud your
13 decision to reopen the hearing so that people who
14 have worked on this issue for over 30 or 40 years
15 can come forward and testify. If you have any
16 questions I would be happy to try to answer them.

17 HEARING EXAMINER: Maybe you could
18 clarify what you just said because I kind of lost
19 it if the water breaks through at Sterling and
20 where it does.

21 MR. KUNZLER: The water that currently
22 goes across Highway 20, as it did in 1990, after the
23 dike district ran out and put up a bunch of sandbags
24 on the railroad bridge to try and keep the water
25 from flooding. It goes there but it's because the

1 water is being backed up by the levee system that
2 these people are being flooded across this area
3 here. They are flooding themselves, they are flooding
4 the city of Burlington and yet they come up here and
5 try and tell you with this smoke and mirrors approach
6 that they are not harming anyone. The reason this is
7 such a red flag and such a tender issue for me is
8 because 40 years ago I sat in a room in the Skagit
9 County Court House and had the Skagit County flood
10 engineer say we're going to do this ourselves and
11 we're going to provide a 25 year flood protection for
12 everyone. Even as a Nookachamp resident that sounded
13 okay to me, a 25 year flood protection, and I asked
14 him how much more flood water would that put on the
15 Nookachamp, Clearlake and Sterling Community and he
16 said "oh maybe half an inch". And then they went
17 ahead and we had the '90 and '95 floods and these
18 people suffered 100-year event levels because FEMA
19 never took the levees into consideration. So all that
20 talk in the EIS is so much BS. They did not take the
21 levees into consideration. So, sir, I'm trying to
22 be as diplomatic as I can but this whole project is
23 outrageous and how they try to present it is outrageous
24 and that's why I made the comment that I did, that I
25 was personally outraged at this because I don't know

1 how somebody sleeps at night who puts water in a
2 98-year old grandmother's house and thinks that's
3 okay. Because that is exactly what happened on
4 Francis Road where a lady who moved her house to
5 a location along Francis Road - she moved it in
6 1911 from Clearlake, she moved it into the
7 Nookachamps and she had to be rescued from her
8 house through her kitchen window by the Clearlake
9 Fire Department. Never had water in her house
10 before. So all this work that Burlington had been
11 doing before the '90 flood event, they had never
12 seen a flood that big. I don't know, I can't treat
13 people like that.

14 HEARING EXAMINER: Alright, thank
15 you.

16 MR. KUNZLER: Thank you.

17 HEARING EXAMINER: What I'm going to
18 do because I don't know how else to deal with this -
19 what exhibit are we up to?

20 UNKNOWN SPEAKER: 34 was the last one.

21 HEARING EXAMINER: So I'm just going
22 to include your packet as an exhibit, which will be
23 exhibit 35, the Kunzler packet.

24 **(Exhibit #35 Marked)**

25 HEARING EXAMINER: Okay, who is next

1 then?

2 MR. RIDGEWAY: My name is Roger
3 Ridgeway and I'm not really offering testimony so
4 much as a request.

5 HEARING EXAMINER: Let me swear you
6 in, in any event.

7 MR. RIDGEWAY: Sure.

8 ROGER RIDGEWAY

9 Having been sworn to tell the truth in this
10 matter, testified on his oath, as follows:

11 MR. RIDGEWAY: So I have a much
12 shorter presentation. I'm here to express my desire
13 that there is some assurance that this dike improvement
14 project makes provision for public access to the dike.
15 As state law provides, except of course in times when
16 there is a danger of a flood or the actuality of a
17 flood. So it's important to us who are concerned about
18 trails and public access for public benefit, that this
19 dike and eventually others as well but specifically
20 this dike at this point make provision for public
21 access in some sort of a trail along the top of the dike.

22 HEARING EXAMINER: So what you are
23 talking about is a pathway along the top of the dike?

24 MR. RIDGEWAY: Yes. Thank you.

25 HEARING EXAMINER: Thank you.

1 MR. ANDERSON: Hello, my name is Mike
2 Anderson.

3 HEARING: Alright, I'll swear you in.

4 **MIKE ANDERSON**

5 Having been sworn to tell the truth in this
6 matter, testified on his oath, as follows:

7 MR. ANDERSON: Okay, I'm going to
8 wear two hats today and I'm first going to start
9 off with the mayor's hat. As the mayor of Sedro-
10 Woolley I'm concerned about any time you might
11 slow up or back up water towards our community and
12 we worked with Burlington and Mt. Vernon over the
13 flood issues and we have spent our own money going
14 back to Washington DC to try to work with our
15 congressional delegation and work with Burlington
16 and Mt. Vernon with the idea of working together and
17 solving this problem. It's kind of ironic now though
18 that I'm hearing it's kind of every city for
19 itself. When I heard them talk about we don't
20 have time to wait for the GI Study or to do it
21 right and we're going to raise the dike, I'm
22 thinking of the iceberg effect. Anytime you raise
23 anything in water it's going to push water back
24 somewhere else and that's east and that's towards
25 our community and upriver and Clear Lake and so

1 I'm against that. I'm really concerned, we just
2 had this bridge failure here on I-5 and we have
3 had some ambulance issues because of the traffic
4 and obviously there is no freeway, so we have
5 been taking some of our ambulances to Bellingham.
6 I have seen - and I have lived here 33 years, I
7 have seen the Cook Road flooded and I have seen
8 Highway 20 where the water crossed over and so
9 I'm concerned about the safety issues. I was
10 looking in the county's report and they were
11 saying there really is no public safety concern
12 in their report. Well, there is because obviously
13 right now we're having that issue and we're just
14 having a little more traffic on 9 and the freeway
15 is out and there is the traffic on Riverside, so
16 this is a big deal for our community. If more
17 water is pushed back and Highway 9 is closed and
18 then Cook Road could be closed and Highway 20 - and
19 I want to work with our neighboring communities
20 and we have but I think we should work for the final
21 solution and it doesn't make sense - you know I
22 heard comment that Mt. Vernon Dike District 3 raised
23 theirs 4 feet and so now Dike District 12 in Burlington
24 wants to raise theirs 4 feet and then in a few more
25 years or 5 years someone else is going to want to

1 raise and it's just insanity to keep raising it when
2 we should work for a solution to get the water out
3 and then we don't back water up on everybody in
4 the Nookachamps and Sedro-Woolley and Upriver.

5 Now going on my own personal issue. I own a
6 piece of property just east of the dike 21241
7 Lafayette and I have owned it for 30 years now and
8 it never flooded until about 1990 and then it flooded
9 twice and in '95 it flooded twice. So my wife and I,
10 we decided to raise it because we were tired of
11 dealing with flooding inside and so we spent money
12 out of our own pocket and we raised it. We went to
13 the county and we went to FEMA and we hired a
14 surveyor to get it at the right elevation and we
15 did and we were one foot above the 100-year flood
16 and we are right there at about District Line and
17 Lafayette and the water would go over the railroad
18 tracks but it couldn't get into our property because
19 we were a foot above the railroad tracks and it would
20 always cross over. Well then - and I don't know
21 what year it was, 2003 or something, Dike District
22 12 came up and started sandbagging that pushing the
23 water back on our house, our property and it didn't
24 flood but I'm thinking why would we spend all that
25 money to raise it and then have them push the water

1 back.

2 So I'm concerned that - you know they keep
3 saying it's not a big deal where they are going to
4 raise it but why are they going to raise it if it
5 is not going to push water back. I mean obviously
6 it's going to push water back and someone is going
7 to suffer and I think we should work towards the final
8 solution and not these Band-Aid approaches. There
9 you go.

10 HEARING EXAMINER: Thank you.

11 MR. ANDERSON: Thank you.

12 HEARING EXAMINER: State your name.

13 MR. BERENTSON: My name is Dan
14 Barentson.

15 **DAN BERENTSON**

16 Having been sworn to tell the truth in this
17 matter, testified on his oath, as follows:

18 My name is Dan Barentson and I'm
19 the natural resources division manager for Skagit
20 County and I have been involved in working on the
21 general investigation for approximately 11 years
22 with a number of you. I would just like to make
23 a few clarifications like I did last time. The
24 first thing I would like to clarify is that during
25 the course of the GI we have never, from the public

1 works perspective, we have never requested that a city
2 or dike district wait on any plan they may have until
3 the GI is completed. Now we're fairly confident
4 that the GI is going to be completed in a timely
5 fashion by 2015 and hopefully it will give us a
6 comprehensive roadmap for flood protection for
7 everyone and we do appreciate the support from
8 the cities and dike districts in that effort.

9 What I would really like to add some clarity
10 to is the hydrology issue. We heard today PIE's
11 hydrology, NHC's hydrology and The Corps' hydrology.
12 A few years ago in 2002 the county contracted with
13 PIE to take a look at The Corps' hydrology and after
14 a significant amount of work PIE's findings came in
15 substantially lower than the Corps' hydrology. In
16 2005 the county discontinued work with PIE and hired
17 NHC to take another look at hydrology since there
18 was a substantial difference between PIE and The
19 Corps. So we contracted NHC and the numbers they
20 came up with fell somewhat in the middle. We have
21 never adopted NHC's hydrology or PIE's hydrology
22 but we have supported The Corp's hydrology for the
23 general investigation.

24 So I guess I would just like to clarify that
25 also NHC right now is contracted with The Corps

1 of Engineers to do the modeling for the three
2 alternatives and they are using the Corps' hydrology.
3 So I would just like to make that clarification
4 because I'm hearing that all three are being utilized.

5 Another question I would like to ask is; for
6 this project as you seek certification are you seeking
7 certification to the pile level or I heard you say
8 at a later date that if that is not the acceptable
9 level that you will rebuild the levee to meet that
10 standard, is that what I'm hearing? Just a question.

11 HEARING EXAMINER: Okay, thank you.

12 State your name.

13 MR. HALVORSEN: Leonard Halvorsen.

14 HEARING EXAMINER: Let me swear you
15 in, sir.

16 **LEONARD HALVORSEN**

17 Having been sworn to tell the truth in this
18 matter, testified on his oath, as follows:

19 MR. HALVORSEN: Just a few words
20 here to clarify some of the stuff that has been
21 said and done. In 19 - well, something, Halvorsen
22 verses Skagit County. Skagit County surveyed the
23 first floor of my house at 39.8700 inches. A year
24 or two later Chuck Bennett was asked in this same
25 room what the dike district's elevation was and

1 he said 46 feet give or take. So the way I read this
2 thing here now is that we're going to have about
3 a 50 foot elevation on the dike or that's what they're
4 asking for. Well if you add that to my floor level
5 and I've got an 8 foot ceiling to get to the upstairs
6 of my house and I sleep there, that puts a foot and
7 a half of water in my bed is what they're asking for.
8 I think that is a hair excessive. A lot of our
9 infrastructure here I feel is in danger from this.
10 United General Hospital, Life Care Center, Sedro-
11 Woolley Treatment Plant and the School in Clear Lake
12 are definitely in harm's way from raising this dike.

13 Thank you.

14 HEARING EXAMINER: Thank you. Okay,
15 who else? Yes, what is your name, please?

16 MR. WAGONER: Yes sir, Keith Wagoner,
17 Commander, United States Navy, retired, and City
18 Councilman for Sedro-Woolley.

19 **KEITH WAGONER**

20 Having been sworn to tell the truth in this
21 matter, testified on his oath, as follows:

22 MR. WAGONER: I'll try and keep this
23 short. I took a lot of notes. First I want to tell
24 you that I'm a graduate of the naval academy with a
25 degree in physical oceanography and my masters is

1 from the University of San Diego, so I know something
2 about fluid dynamics and fluid statics and I think
3 I can speak with some credibility. Mr. Kunzler had
4 a lot of data up here and I would kind of like to
5 distill how I see that and I talked about this last
6 time. The way the water in the river works when
7 it's backed up by a dam or by a dike system which
8 acts just like a dam is that it makes a wedge that
9 goes back upstream. I know there have been arguments
10 about hydrology reports and data but the last slide
11 that Mr. Kunzler showed, this is a fact, this already
12 happened. So we know what happened with the dikes
13 at their state in 1990. This water backs up to my
14 town, Sedro-Woolley, that's a fact. So there is no
15 argument about what it might or might not do it has
16 already done it.

17 Now Mr. Shultz asked us to not take emotional
18 things into account here and just deal with the
19 facts and I agree with that. But then afterwards
20 he went on to dismiss some of the actual documented
21 events as biblical to give you the idea, well, that
22 will never happen. But I want to tell you that a
23 100-year flood doesn't mean you are going to get
24 one of those in 100 years, you might get three of
25 them in the next three years or you might not get

1 one for five hundred years, we really don't know.
2 They're talking about raising the dikes, whatever,
3 three, four feet as if that is just a wall above
4 the water that is not going to have any effect -
5 freeboard they're calling it, as if it has no effect.
6 At the same time the dike district commissioner
7 mentioned that she has an eight percent error rate
8 and they talk about overtopping. That tells me there
9 is a possibility even in Burlington's mind that all
10 of that freeboard might be used up. If this is the
11 result of the 1990 dikes then clearly it's going to
12 be worse if it's raised another 4 or 5 feet.

13 Now if I were Burlington and Burlington was
14 operating in a vacuum, in isolation, I think this
15 is a great plan, well thought out and it will protect
16 at least the people downstream of the dikes and we
17 have seen that it causes some havoc upstream. So I
18 don't really blame them for that but human beings
19 in organizations tend to act in their own best
20 interests and in common language we call that
21 selfishness. We all know that selfishness is not
22 the best way for communities to work together and
23 that's why this is a county issue and that's why
24 we're sitting here in front of you to help solve
25 this.

1 I thought about what a Sedro-Woolley solution
2 might look like hypothetically. If we decided in
3 Sedro-Woolley that we ought to dig a big ditch
4 below our town and dump the water outside of the
5 city limits say over by Cook Road somewhere, that
6 would solve the problem for us but it's not a very
7 good solution for anybody else. And that's why I
8 think Burlington sort of has the cart ahead of the
9 horse. I think that their dike improvement or dike
10 maintenance might be part of the total solution.
11 I think we should wait for the GIS and see where it
12 fits in, in a coordinated flood prevention plan so
13 it helps all of the cities at once. Because right
14 now it's like if you and I had a wash bucket between
15 us filled to the top with water and we needed to
16 move it somewhere, neither one of us wants to get
17 wet. Well, if we're careful and we work together
18 we can do that but if I get the bright idea, hey,
19 I will not get wet if I just lift my end of it up,
20 that is not going to make you very happy and that
21 is what I feel Burlington is trying to do to us right
22 now on this go-it-alone solution. The proponents
23 act like all this dike does is protect Burlington
24 and downstream and they don't want to talk about
25 what happens upstream. That's because this is a

1 fact that has already happened as Mr. Kunzler
2 talked about. It is going to exacerbate that
3 situation and we have some pretty high-value assets
4 up there.

5 I think the county missed a couple of things
6 and Mike Anderson already alluded to it but I'll
7 hit it again; Item G and Item H on the documents
8 signed by Senior Planner Marg Fleek and John
9 addressed it earlier. If you look at those items
10 it says: "The proposed use is not in conflict with
11 the health and safety of the community". Mike has
12 already talked about what can happen to our
13 ambulance system, we've got United General up there.
14 We also have our water treatment plant that the
15 commissioner alluded to earlier, the dike commissioner.
16 Item H says: "Will not adversely affect public
17 services or the surrounding areas or conditions can
18 be established to mitigate those impacts". I don't
19 think that has been demonstrated and based on those
20 two items alone I think you should rule against this
21 project.

22 Thank you, sir.

23 HEARING EXAMINER: Thank you.

24 MR. SHULTZ: Mr. Examiner I would like
25 to comment on something this commenter said.

1 HEARING EXAMINER: Well, you will have
2 your chance but we have to let other people comment.
3 Is there any other person who wishes to speak?

4 MR. SHEAHAN: Thomas J. Sheahan

5 **THOMAS SHEAHAN**

6 Having been sworn to tell the truth in this
7 matter, testified on his oath, as follows:

8 MR. SHEAHAN: First of all I want to
9 clarify that I am a native of Skagit County and I
10 have lived here my entire life along with my 13
11 brothers and sisters. I went to work for Skagit
12 County in 1969 in the engineering department, which
13 I spent 17 years in engineering and a great deal of
14 time working on flood projects. I was there for a
15 total of 42 years. One of the first projects I was
16 called out on in engineering was Cook Road in 1969.
17 We started that project and we were going to rebuild
18 Cook Road. With great deal of frustration after
19 about a year in engineering it was tabled because
20 certain people didn't want to sell their right-of-way.
21 I'll come back to that but that project was built in
22 2000. In 1983 I became the director of the department
23 of emergency management, fire marshal's office,
24 Homeland Security and I was a major player in the
25 development of 911. As the director of the department

1 of emergency management I don't want to give you a
2 portrait that I just say in my office and pushed paper,
3 because when there was a disaster I didn't and that
4 was probably one of my downfalls when it came to the
5 elected officials. In the engineering part, in the
6 early part of my career the West Side Bridge in Mt.
7 Vernon, coming north from there on the opposite side
8 of Mt. Vernon we built a levee and what we would do
9 in the summertime is we would go out and do the
10 engineering, surveying etcetera, and accumulate all
11 the information it would take to build the dike in
12 wintertime. In the summertime we would go out and
13 build the project. I was the inspector on that
14 project and as Ms. Ellestad said, her father was on
15 that project as well. We took the dike down to
16 ground level and we graded all the river from the
17 edge of the water back to the dike and dug down into
18 the dike and made a core of about eight to ten feet
19 wide and filled it up with clay, rebuilt that,
20 because behind that levee the water was perking
21 through and popping up the road and a lot more water
22 was going on the outside of the dike than there was
23 on the inside of the dike and so we rebuilt that
24 project. It's a relatively stable dike at this time
25 in its life compared to some others. In my career

1 also we have the emergency operations center and
2 you may have heard that term, it's the EOC and in that
3 emergency operation's center, when there is a
4 disaster such as the bridge falling down, all the
5 players who are an important part of the players
6 come together and determine what shots should be
7 called. And in that emergency operation's center
8 there are mayors, appointed officials, other city
9 officials and the dike districts have a representative
10 there and they respond to the different emergencies.
11 The three major players in that who will call the
12 shots is the sheriff, the public works director,
13 and the director of the department of emergency
14 management. In a disaster, before, during and after
15 a disaster, those are the three parts. Before you
16 have plans and the plan is how are you going to
17 function during the disaster and one is the operation
18 of that emergency operation's center. The next is
19 during the disaster you have the warning system,
20 which is how are you going to let the people know
21 that there is a flood that is eminent. And then after
22 the disaster is a lot of the mitigation stuff and
23 one example of that is Sedro-Woolley during one of
24 the major floods their sewer outfall was broke and
25 we can blame dike districts for building dikes but

1 I kind of think it's mother nature's fault for
2 letting it rain so hard. Nevertheless we are the
3 avenue for the federal money coming to our office
4 and giving it back to the communities. An example
5 of that is the flood of 1990. There was fifty-four
6 million dollars distributed to the cities, the
7 county and the dike districts.

8 There is a flood warning that is put out at
9 28 feet and that is the 28 feet in concrete. Well,
10 28 feet in concrete is one thing but 28 feet down
11 in Burlington and Mt. Vernon it's not a big deal
12 but I'm here to tell you that 28 feet in Concrete
13 is because that means the people in Marblemount
14 and Rockport and Darrington and Sauk Suiattle were
15 already being flooded and I would take my vehicle
16 and I would drive up there and try to determine how
17 much water was really coming because that's just
18 showing what is in the river. The tributaries below
19 this point are really important, how much water is
20 coming down those tributaries and how much of a flood
21 are we really going to have. And the other thing
22 I would do is right below the gage is a community called
23 Cape Horn. Cape Horn to me is probably one of the
24 scariest parts on the Skagit River. There are hundreds
25 of people who live in this development and what happens

1 when it floods is the water runs across the back of Cape
2 Horn and it cuts these people off. You go in and ask
3 them to evacuate and most of the time we have seen it and
4 we have experienced it and it's going to be okay and
5 I'm here to tell you that many times they said it
6 was okay and it wasn't okay. We've had army rescue
7 trucks up there. We have had search and rescue boats
8 in there in the middle of the night pulling people
9 out because they didn't leave,

10 Anyway, 28-foot is the flood fight and in my
11 opinion 38 feet is about where it starts overtopping
12 on the dikes down here and keeping those numbers in
13 perspective a little bit. In 1975 there was a
14 flood that impacted and there was a statement in the
15 last hearing about United General being flooded and
16 that is United General Hospital, which is out towards
17 Sedro-Woolley. It did flood, the water did flow back
18 into the basement and they did have their generator
19 in the basement and they did lose their emergency
20 generator but we were able to get a generator in
21 the parking lot and allow that to run and that was
22 with the existing dike system that we have now. It's
23 just that the water coming down the river is more
24 water than the capacity of the two dikes, the dike on
25 the left and the dike on the right. It runs around

1 the end of the dike just up above Burlington and we've
2 talked about Highway 20 and the mayor has talked about
3 he raised his property and the gentleman sitting right
4 beside him, I stood on his front porch when it was
5 flooding and talked about - because his garage was
6 about to be flooded. But this is outside the existing
7 dike and, Mr. Halvorsen, I drove back to his property
8 during a flood and we asked to evacuate him and his
9 family. I drove back there and the water was up to
10 the headlights on my vehicle to get them to come out.
11 His family came out, he stayed.

12 The 28-foot warning is just exactly what it is.
13 That is to let people know there is going to be a flood.
14 32 feet to 34 feet you start talking about evacuation
15 and 38 you should be gone, I'm telling you, you should
16 be gone. The flood water naturally backs up into the
17 Nookachamps. You heard a little bit of talk about the
18 Nookachamps. One of the things I would do, I would go out
19 in my vehicle and I would drive out into the Nookachamps
20 and you can actually see the water pushing back through
21 the Nookachamps and it goes around the back of the hills
22 and then comes back around into Clear Lake and then
23 into Mud Lake and it's just a natural push-back
24 because of the levees. I'm sorry but the levees on
25 both sides, that's a natural thing and they're

1 complaining that they get more water than they have
2 ever had. Well, the fact is we're getting more rain
3 than what we've ever had. It's a natural thing.

4 The present levee system that we have is a very
5 false sense of security for the people and here is
6 what I believe the people think. The people of Skagit
7 County could care less if it's going to flood, they
8 aren't thinking about it, they're thinking about their
9 families and they're thinking about their jobs and
10 they're thinking about church and they're thinking
11 about birthdays and they're thinking about soccer.
12 They don't care because they expect the people in this
13 room to take care of them if there is a flood and that
14 means levees.

15 In 1980 or so the population was probably about
16 65,000 and when I first started my job it was 50,000
17 people. I think it's up to about 120,000 or 130,000
18 people and I'm telling you that the people in the
19 130,000 - everything above those 50,000 people,
20 they are not really familiar with flooding. They have
21 no idea what that Skagit River can do to them and I
22 think it's our responsibility to do something.

23 The water that backs up and runs through Highway
24 20, is Dike District 12 responsible? No. The water
25 that is coming down Highway 20 is more capacity than

1 can go through the two levees. It has got to go
2 around and that is exactly what it is doing. You
3 talked about it going out to the Bayview Area or it
4 goes out to the Samish Area - I live at the Samish
5 and I'm here to tell you it does go out there and
6 there is no place for it to go out. I get flooded
7 but I expect that. But that is a natural thing for
8 it right now, it runs down Highway 20. I'm not
9 here to testify on behalf of Dike District 12 or
10 anybody who is against it I'm here to say that
11 something needs to be done and I believe that the
12 proposal is an approach to start the process. How
13 many years are you going to study it?

14 The Cook Road Project, you heard me mention
15 that when I first started. For 39 years we dealt
16 with Cook Road as a two-lane road and I can't tell
17 you how many fatality accidents that I went to on
18 Cook Road and it never happened until 2000 that
19 they rebuilt that road. There was no reason for it.
20 The only reason there was, the politicians got enough
21 pressure from the people that they did not want it.
22 They didn't want people to buy their right-of-way.
23 They wanted to keep their lawns clear out to the edge
24 of the road. The only accidents we have on Cook Road
25 right now is the backup from the railroad tracks,

1 Cook Road, Old Highway 99. Those are rear-end
2 collisions. Before we used to have t-boned accidents,
3 head-on collisions, what we call grinders, all kinds
4 of accidents. I think that if these parties will
5 come together and this is allowed I think this is a
6 beginning point for Skagit County to develop a
7 diking system that they will be proud of and I think
8 they all need to be in concert on that.

9 With that, I don't have anything more to say,
10 thank you very much.

11 HEARING EXAMINER: Thank you. Are there
12 other people who want to be heard today? Any further
13 public testimony? Well as I mentioned at the outset -
14 it's about noon but I don't see any reason why we can't
15 just finish up and eat lunch late. I will let the
16 applicant respond and I hope briefly to what they've
17 heard and let the county make any response or
18 remarks it might want to make. So we will do that
19 now, who wants to talk first? I see a hand raised,
20 Mt. Shultz.

21 MR. SHULTZ: Can I do that from here?

22 HEARING EXAMINER: You can do it from
23 there.

24 **(Applicant's Rebuttal)**

25 MR. SHULTZ: My comment will be fifteen

1 seconds. I do have to object a little bit to Mr.
2 Keith Wagoner, Mr. Wagoner's I think unfair
3 characterization of my testimony saying that I just
4 dismissed factual evidence when I was talking
5 about the engineering. If he was listening I did
6 not dismiss out-of-hand, quote "the biblical proportions"
7 found by the Army Corps. What I did was I explained
8 the three positions you were interested in, why we
9 had three different hydrology's. I explained that
10 the Corps hydrology was very high because of those
11 floods. The PIE hydrology after several years and
12 millions of dollars, even when they were the county's
13 engineers determined that those numbers were probably
14 not correct and NHC came in the middle. So any
15 implication that I was dismissing the facts I think
16 is inaccurate and a little unfair given the caliber
17 of the education of that witness I think.

18 HEARING EXAMINER: Alright, Mr.
19 Semrau.

20 MR. SEMRAU: Yes, I'm going to submit
21 to you for the record a copy of the 1984 flood
22 insurance study for the City of Burlington. Mr.
23 Kunzler showed you several documents that were prior
24 to that flood insurance study. The flood insurance
25 study is kind of the starting point for the

1 professionals. You know, as a professional engineer
2 I don't - there are certain points in our regulatory
3 stream of how we regulate things from a city, county
4 and federal standpoint but I have to accept as an
5 engineer - and most of those documents he submitted
6 to you have no bearing on where we are at today and
7 what is required by the county and the cities and by
8 FEMA and the Corps in regulating that. The questions
9 in regards to the floodway, we have answered those
10 questions. We have answered the questions as to
11 where the special flood risk areas are. They are
12 mapped on the FIRM, the Flood Insurance Rate Map
13 which, unfortunately, I don't have a copy to give
14 you but we heard testimony from some people off of
15 Lafayette Road that have made revisions to their
16 house and things and yet we have heard testimony
17 from Mr. Kunzler that we shouldn't be allowed to
18 place fill in the same area. That area is not in
19 the floodway. And it's not even within 200 feet
20 of the river. It's not within Shoreline's
21 jurisdiction of the Skagit River but it is within
22 Shoreline's jurisdiction of Gage's Slough but I
23 will submit this flood insurance study. We have
24 defined the floodway and the floodway is basically
25 riverward of the levee. We are allowed to make

1 improvements to the levee. We make those improvements
2 according to the Corps' requirements. We make those
3 improvements when the Corps tells us to make those
4 improvements but we're covered through the WAC 173-
5 27-040 our Shorelines Substantial Development
6 Permit Process in the RCW 90-58-030. We have got
7 these definitions and we work within those. So here
8 is the flood insurance study, July 3rd, 1984.

9 HEARING EXAMINER: Alright, we will
10 call this exhibit 36.

11 (Exhibit #36 Marked)

12 MR. SEMRAU: There was a question in
13 regard to what hydrology we will use when we certify
14 and the only hydrology that will be accepted when
15 certification occurs is the Corps. Certification
16 will be to the 100-year Corps hydrology. When a
17 levee is certified it is basically certified or -
18 when it's accredited they take the level of the
19 levee and they remove the freeboard from it. If the
20 levee is accredited they take the level of it and
21 remove the freeboard and then they stick that into
22 the computer model to determine the flood insurance
23 rate maps. So whatever level it is at when the
24 certification and accreditation occur, that is what
25 level it will be at in the modeling of the river

1 flows, where the flood flows will occur from that.
2 The exhibits that I showed you from the EIS showing
3 where the floodwaters go, there are still floodwaters
4 going through Burlington and down Gage's Slough even
5 with these levee improvements and that is because
6 we don't have the tieback yet. There are modeling
7 scenarios in the EIS of the tieback but those are
8 not being proposed at this time.

9 And then, just a quick comment on the 1990 flood
10 map. The flood maps that I showed as well as the
11 FIRM, the Flood Insurance Rate Map, they show a whole
12 lot of other areas that are going to be flooded at
13 the 100-year flood event. Those are the maps people
14 need to be looking at. I'm a certified LOMA
15 administrator. I do a lot of flood works, elevation
16 certificates. When I do an eLOMA, I'm actually am
17 preparing the LOMA, the Letter Of Map Amendment for
18 FEMA and I get that immediately. I do a lot of flood
19 map work as a consultant and, unfortunately there is
20 a lot of people in this county who are in denial
21 that they are in the floodplain. People argue with
22 me every day that, you know, they have never flooded
23 and they are never going to flood. And, you know
24 those flood maps, there are portions of Sedro-Woolley
25 that are going to flood in a 100-year flood event and

1 it's not going to be because of this levee system
2 and as I showed in those exhibits on page 48 and
3 49, they are well upstream of the one/tenth (1/10)
4 of a foot impact and those areas are going to flood
5 in those larger events unless something else is
6 done in those areas. But the whole concept behind
7 the flood insurance, the FIRM, is flood damage
8 reduction. FEMA would like to change that to flood
9 damage elimination and, you know, we just don't
10 have the means to provide flood protection for that
11 level in most parts of the country and just because
12 someone is built to one foot above the base
13 elevation doesn't mean that they are not going to
14 get wet during a flood event and one of the reasons
15 why - well it's probably not important and that's all
16 I will address.

17 HEARING EXAMINER: Alright, thank you
18 very much. Do we have some other remarks?

19 MS ELLESTAD: Yes.

20 HEARING EXAMINER: You are still under
21 oath.

22 MS ELLESTAD: Okay. Just a couple of
23 points. One, Mr. Kunzler was using some older
24 documents and then he did point out that topographic
25 information wasn't available and in those early FEMA Maps

1 they used a five foot contour. We now have contours to I
2 guess basically to one hundredth (1/100) of a foot but
3 more common we would use like a tenth of a foot. These
4 topographic maps have been provided by the cities and the
5 county, so it's state of the art digital topography that
6 modeling is conducted on which is a great improvement to
7 what was available in the past. Another comment was that
8 FEMA did use a split flow and they no longer use that
9 method, they haven't used that method for years. Again,
10 they used a photo-D (phonetic) Model and they use the
11 current, more accurate digital topography.

12 The statement was made that the water doesn't flow
13 out to the Samish but it flows through Gage's Slough.
14 You can look at county tax records - and I have kind
15 of a poor map that I could share and I say poor map
16 because it was generated for another purpose and only
17 includes parcels in the dike district but it shows the
18 Joe Leary drainage that is District 14 that runs out
19 towards the Samish and runs along the north side - I'll
20 give you this for lack of something better.

21 HEARING EXAMINER: If we put it
22 on the thing here will that show up? Now you can
23 point out what you are talking about.

24 MS ELLESTAD. So I just wanted to
25 point out that this blue the Joe Leary Slough's

1 assessment area that is in the dike district. It
2 goes beyond this and runs up, to capture up above
3 United General Hospital and the reason that drainage
4 areas starts up there is because the flow does go
5 out Joe Leary and out towards Padilla Bay and into
6 the Samish Watershed along Gage's Slough and runs
7 down through Burlington City proper. The other
8 thing that this map shows is that a lot of these
9 areas aren't in Dike 12 but that the benefit area
10 for this project, the yellow, you see the yellow
11 and here is Dike 1 and here is La Conner and should
12 there be a breach the water would run through the
13 path of least resistance but currently, because the
14 levee system stops here the flow there is predicted
15 to be 52,000 cfs. In reference to the conditions
16 at railroad bridge, part of the uncertainty that I
17 spoke to, the eight percent, is because of the debris
18 load on that railroad bridge which really does have
19 an impact on how much water gets backed up. Some
20 of the hydraulic modeling shows up to a four foot
21 difference in the water surface elevations with a
22 low debris flow verses a high debris and for the
23 folks that were around in '95, it became a 100%
24 debris blockage that backed up and I'm sure Tom was
25 probably an eye witness to a lot of that event

1 and those are conditions that you can research,
2 you can bring in every expert that you want. There
3 are people who work for the county and maintained
4 the bridges, people from DNR who do timber assessment
5 but you have to have a degree of uncertainty in your
6 modeling because there are just too many conditions
7 that you can't put an exact number on and I know
8 that has been some of the delay and some of the
9 technical work coming in on the GI is getting
10 everyone to agree on how you can model and assess
11 what damage has happened where because of the debris
12 uncertainty.

13 The other one is the comment about Sedro-Woolley
14 and folks not doing things to protect themselves verses
15 Burlington and years ago Brickyard was rerouted because
16 it was flooding Sedro-Woolley and a ditch was dug around
17 and had it enter the Skagit below Sedro-Woolley. So
18 people who have the wherewithal and have localized
19 flooding experience, communities do work to try to
20 improve their localized flooding. One of the other
21 hats I wore is that years ago I was a member of a
22 county advisory committee and I chaired the frequently
23 flooded areas committee as part of the environmental
24 element of the Growth Management Act - and that is
25 one of the precursors of the drainage utility so that

1 there was a way to help these localized flooding
2 things that happened and you are going to have large
3 projects and you are going to have smaller projects
4 to address some of these areas that - and the devil
5 is in the details but that need to be dealt with on
6 more of a localized impact.

7 HEARING EXAMINER: Do you want to
8 submit this?

9 MS ELLESTAD: You know I think I can
10 because I spoke about it but because it doesn't show
11 the blue extending up -

12 HEARING EXAMINER: For what it does
13 show, that's fine.

14 MS ELLESTAD: Okay, I'm fine -

15 HEARING EXAMINER: It's illustrative
16 but you don't have to make it an exhibit unless you
17 want to.

18 MS ELLESTAD: I guess I would ask my
19 attorney would you like me to submit this or -

20 MR SHULTZ: Yeah, that would be a
21 good idea or if you can get a better copy.

22 MS. ELLESTAD: I could ask maybe the
23 county to provide a map of Drainage District 14.

24 HEARING EXAMINER: This would be
25 exhibit 37.

1 MR. SHULTZ: You testified to it so
2 let's go ahead and have it marked if that's okay
3 with the hearing examiner.

4 HEARING EXAMINER: Sure. What I want
5 you to tell me is what it is.

6 MS ELLESTAD: This shows the parcels
7 that are assessed and that contribute to Dike 12
8 and it shows the overlap with the drainage districts
9 in the county and so while these in the white up here are
10 still blue, they are still in the drainage district
11 but they aren't in the dike district and so since the
12 primary mapping was the dike district it didn't show
13 all these other districts in its entirety.

14 HEARING EXAMINER: And what is the
15 source of this?

16 MS ELLESTAD: The source of this is
17 from the county GIS department.

18 HEARING EXAMINER: Okay, dike drainage
19 assessment is what it says.

20 MS ELLESTAD: Right it's just to show
21 basically an overlap and it shows the drainage
22 utilities prepared for a taxation assessment purpose
23 and not to try to show the boundaries and if you
24 want to make a note to have us provide you with a
25 map that shows the drainage area in its entirety I

1 would be more than happy to work with Kara.

2 HEARING EXAMINER: Well I think we're
3 going to have to close our record after this hearing,
4 so thank you.

5 MS ELLESTAD: Alright.

6 HEARING EXAMINER: Alright, this will
7 be exhibit 37.

8 (Exhibit 37 Marked)

9 (Applicant Rebuttal Concluded)

10 HEARING EXAMINER: Okay, I think we
11 have reached the end of the road here at least as
12 far as this hearing is concerned. Does the county
13 have anything else they want to add?

14 MR. COOPER: I think a lot has
15 been said today, enough to digest.

16 HEARING EXAMINER: Well, thank you
17 all for your patience. I have had a fair amount
18 of time to look at the material I have already
19 received so I don't anticipate it will take very
20 much longer for me to get a decision, so thank you
21 very much.

22 (HEARING ADJOURNED 12:15 PM)

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1 STATE OF WASHINGTON

2 COUNTY OF SKAGIT

C-E-R-T-I-F-I-C-A-T-E

3
4 I, **ALLEN R. EMERSON**, a Notary Public and licensed
5 court reporter in and for the State of Washington, do
6 hereby certify:

7 That the verbatim record of proceedings held in the
8 matter of a Shoreline Substantial Development Permit
9 was transcribed by me from an official CD produced under
10 the direction of a Skagit County Official and reduced to
11 typewritten form under my direction;

12 I further certify that I am not a relative or
13 attorney or counsel of any of the parties to said action
14 or a relative or employee of such attorney or counsel and
15 that I am not financially interested in the said action
16 or the outcome thereof;

17 I further certify that the verbatim record of this
18 Hearing, as transcribed, is a full, true and correct
19 transcript of the testimony including questions and
20 answers taken at the time of this Hearing regarding
21 the application for a Shoreline Substantial Development
22 Permit as heard on June 12th, 2013;

23 I further certify that the original transcript of
24 this verbatim record of proceedings will be filed with
25 the City of Sedro Woolley.

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IN WITNESS WHEREOF, I have hereunto set my hand
and affixed my Official Seal this _____day
of _____, 2014.

ALLEN R. EMERSON--NOTARY PUBLIC in and
for the State of Washington, residing
in Sedro Woolley. My Commission
expires: June 27, 2016.