

INTERVIEW WITH DENNIS SCHUETH
BY JIM BARR

April 30, 2014

1 MR. BARR: This is Jim Barr. It's April 30th,
2 2014. I'm in O'Neill, Nebraska, visiting with Dennis
3 Schueth. How do you pronounce that?

4 MR. SCHUETH: It's pronounced Sheet (phonetic).
5 On paper, it looks like Schueth. So, it's a good
6 conversation piece.

7 MR. BARR: And I'd like to just begin by letting
8 you kind of go over a little bit about your background and
9 how you got involved in this and that sort of thing.

10 MR. SCHUETH: Yeah, well, thank you, Jim. I
11 started back in 1986 when I was first employed with the
12 Upper Elkhorn NRD. And I grew up around Ewing, which is
13 just to the southeast of O'Neill here, so I'm kind of a
14 native. But it's kind of interesting, growing up in Ewing.
15 That was a very small community. And some people say,
16 "Well, jeepers, you didn't get very far," you know. But
17 when I look at O'Neill, Ewing didn't have a movie theater or
18 a bowling alley or anything like that, so coming up to
19 O'Neill, for me, was very -- it was a big adventure to say.
20 You know, even though I had graduated from University of
21 Nebraska-Lincoln back in 1985, I did want to come back to a
22 rural setting. My first job actually took me to Chambers,
23 Nebraska, which is also just south of O'Neill. And I was an
24 agronomist, and I got my degree from the University in
25 agronomy. And so, then, how I got into the NRD business or

1 got the position, that was when legislation was just passed
2 on the Chemigation Act. That happened in 1985. And the
3 staff at the time of the Upper Elkhorn NRD was two people,
4 the manager and the secretary, very small. And so, I was
5 lucky enough to land the position to do the chemigation
6 inspections and they gave me the title as Assistant Manager.
7 And so, I began my work as a chemigation inspector, did all
8 of the water sampling for water quality and quantity
9 purposes. And so then, over a period of time up to 1994, a
10 position opened up, the general manager's position opened
11 up, and I interviewed in front of the full board. Because
12 of my background, I didn't want to be just moved up the
13 chain. I wanted to compete for the position. And so, we
14 went through an interview process. And luckily, in my
15 opinion, I was hired as the general manager back in 1994.
16 And I've been here ever since.

17 MR. BARR: Who was the general manager before?

18 MR. SCHUETH: The previous manager was Paul Mann.

19 MR. BARR: Okay, did you have any recollection
20 about the early development of the natural resource
21 districts? I think you apparently lived in the district.

22 MR. SCHUETH: I really am embarrassed to make this
23 here next comment. When I was in school at the University
24 of Nebraska, the natural resource districts really were not
25 discussed as far as a state authority and local authority,

1 and so, I really did not know the whole premise behind a
2 natural resource district. And when I was working as an
3 agronomist and this position came open, then I started
4 investigating a little bit more to be more prepared for the
5 interview. And so, my knowledge is more so of the review
6 and the research that I did to be prepared for the interview
7 process and then knowing more about it as I stayed on with
8 the natural resource district. And knowing how this here
9 process developed, I think it's a great thing that the State
10 of Nebraska has. Other states really like to comment how
11 the natural resource districts are set up on the funding
12 mechanisms, on the representation of the natural resource
13 districts. And that premise is on the fact that local
14 solutions to local problems. And I think that was very
15 successful when those senators and everybody that was
16 promoting it back in 1969 and probably some of the
17 discussions earlier than that, but it really took the
18 forefront in '69. That I got to commend those people.
19 They -- when they started talking about 10-15 years, about
20 downsizing government, well, they did that back in 1972, and
21 I think they were very visionary at that time, because in
22 all of the documents you hear, 154 organizations were
23 combined into 24 natural resource districts. And so, when
24 you start talking about consolidation or downsizing, I think
25 the NRDs and those individuals back in the late '60 and

1 early '70s on the forefront of the development of the NRDs,
2 they were visionaries. And I think it's worked out very
3 well for the State of Nebraska.

4 MR. BARR: How about in the Upper Elkhorn, was
5 there any particular differences in this NRD as it developed
6 than, say, other NRDs in the state?

7 MR. SCHUETH: I think we're kind of on the verge,
8 in the state of Nebraska, where you kind of start seeing the
9 urban farming. And then, as you keep going to the
10 west -- and I use O'Neill. O'Neill, when you start going to
11 the west, it's more ranching and you continue out to the
12 Panhandle. It is more ranching. And when I first started
13 with the NRD, a lot of out cost share dollars was going
14 toward ranching issues. '70s, in the early '70s, the late
15 '70s, you know, irrigation development really took a strong
16 hold and that also -- in the state of Nebraska, but that
17 also hit this area. And a lot of that irrigation
18 development happened on the eastern side of our district in
19 Antelope County. And so, over the years, we've become more
20 diversified with irrigation and also ranching. And so, we
21 have great representation on our NRD board, because it's
22 about half and half, half ranchers, half farmers or other
23 businesses representation. And so, I think over the years
24 that has changed the thought processes of the NRDs, because
25 now when you look at our cost share programs that are

1 available, a lot of the producers have their pastures
2 already partitioned off or cross-fenced, and you can only do
3 so much of that. And the shelter belts are the same thing.
4 You plant so many shelter belts. And our district has been
5 one of the larger districts of planting trees over the
6 course of the years. And so, with the development of
7 irrigation, we have seen our focus starting to shift over
8 the years more to water quantity/quality issues associated
9 with irrigation development.

10 MR. BARR: Now, when you started, you started
11 working with the chemigation program, how has the activities
12 of the NRD developed over that period that you've been here?

13 MR. SCHUETH: Yes. Back in 1986, when I started
14 with the NRDs or with the NRD, the Upper Elkhorn, we
15 probably had about 2,000 to 3,000 irrigation wells in our
16 district. And a lot of people were putting chemicals --
17 chemicals, meaning fertilizer, also through the pivot, but
18 there were really no regulations prior to that. And so, due
19 to the concern of potential contamination of the
20 groundwater, we have, at that time, back in 1986, we
21 inspected roughly about 850 chemigation sites. Today, we're
22 up to permitting about 3,000. And so, we think, for the
23 water quality issues that we have with nitrate nitrogen,
24 spoon feeding that through the pivot is probably the best
25 way of applying fertilizer. As I stated, we probably permit

1 about 3,000 irrigation wells a year. To put that in
2 comparison with our total number of irrigation wells in our
3 district, we have about 4,700. So, you know, we're over
4 half, you know, in that 60 percent rate. And I think down
5 the road is probably going to be one of those things that
6 our district, our board is going to have to make a decision
7 that we will need to have more of the fertilizer applied
8 through the chemigation system and spoon feeding it when the
9 crop is requesting it.

10 MR. BARR: For people who may not have a clear
11 idea of what's involved in overseeing chemigation, could you
12 just kind of review the sorts of things that are required on
13 irrigation wells and for the operation of them?

14 MR. SCHUETH: Yes. There's different type of
15 equipment that needs to be inspected when you do a
16 chemigation inspection. One, you'll have a fertilizer tank
17 that will have a hose that goes to the pipe, the
18 distribution into the water supply. And at that juncture
19 there, there's a piece of equipment that allows the chemical
20 to be injected into the water. And that has to be inspected
21 and because we do not want any backflow from that water
22 pressure to go back through that piece of equipment into the
23 tank and then overflow the tank.

24 And then the next thing that we inspect is the
25 slam valve. There's a gated piece of material that's inside

1 of the diameter of the pipe.

2 MR. BARR: The irrigation pipe.

3 MR. SCHUETH: The irrigation pipe. And so, the
4 flow of the water, when it comes from the irrigation pump
5 that pushes that gate open allows the water to go through to
6 the pivot, but if that pivot -- if the irrigation source,
7 power source shuts down, the water supply stops. That gate
8 shuts closed and then anything that has that contam- -- I
9 shouldn't say it's contaminated -- has that product in that
10 water, it cannot backflow into the irrigation well. And so,
11 we have to inspect that back gate.

12 Then there's also a device on the bottom of that
13 irrigation pipe, so if that gated door happens to leak,
14 there is a reservoir on the back side where that water can
15 collect. It drains out more than 20 feet away from the
16 irrigation well, so it would not be a direct link to that
17 irrigation well, so it drains away. So, those -- and then,
18 I mentioned before that if the irrigation supply power
19 source shuts down, we have to check that interlock, too.
20 So, we just don't want that chemigation pump valve to
21 continue pumping, so that all has to shut down if there's a
22 power shortage or a shutdown. So, it's been a very
23 successful program and I believe the cooperators have been
24 very willing to work with us. And again, I think that's one
25 of the best management tools that we have in our district

1 due to the fact of the type of soils that we have in our
2 NRD. We have a lot of sand, Valentine sand, and also right
3 around in O'Neill, we have a lot of coarse soil, gravel.
4 We're farming maybe about a foot of topsoil and then it
5 turns into very coarse sand, gravel. And we have a chance
6 of leaching those fertilizer or chemicals into the ground,
7 and then ultimately getting into the water source.

8 MR. BARR: What sort of depth are you drawing
9 water from in the average -- maybe it's a range.

10 MR. SCHUETH: Within the Upper Elkhorn NRD
11 district, the static water level does vary very much across
12 from the eastern side of Antelope County to the western part
13 of our district of Rock County. The saturated thickness
14 of -- in Antelope County, it may only be 200 feet up in
15 northern Antelope County, but if we get into Rock County, we
16 are sitting on anywhere between 600 to 700 feet of saturated
17 thickness of water and so, as I mentioned before, we've been
18 very blessed with a good aquifer system. Now, we do have
19 that area up in northern Antelope County that has a little
20 bit shallower aquifer system, but we're trying to look
21 at -- if there's decisions or regulations that need to be
22 looked up there into the future.

23 MR. BARR: While you've been here, are there sorts
24 of projects or centers of attention? How has that evolved?

25 MR. SCHUETH: As I mentioned before, when I first

1 came on to the NRD back in 1986, our biggest projects before
2 that was mentioning before was ranching. But we were really
3 noted for planting trees. We would plant up over 100,000
4 trees each year. And that has been dwindling down. For
5 example, this year, we are down to maybe, I think the staff
6 said we're down to about right around 30,000 trees. And
7 some of that has to do with, due to the fact that our
8 district was -- and the landowners were so progressive in
9 planting windbreaks. You can only plant a windbreak so many
10 times, and you look at, since 1986 or even 1972, that's over
11 40-some years, and some of those belts do need to be
12 replaced, but that's even a slower process, because you got
13 to tear out the trees and then you got to replant them, but
14 that was the biggest change for us, is that was also a great
15 opportunity for revenue for our NRD. And that has also
16 dwindled down just based off of the participation of that
17 program. So, that was very exciting times, planting that
18 number of trees. And now we'd like to try to increase those
19 numbers, too. But 2012, for example, when the commodity
20 prices got up to be very high on corn and soybeans, people
21 were more excited about knocking out windbreaks, shelter
22 belts, to get that extra acres or two acres of ground for
23 crop production. And then the other thing that has happened
24 within our district is statewide and even nationwide for
25 planting trees that the federal programs have changed. The

1 federal programs, if you wanted to put a corner of trees and
2 get under a federal program, you almost had to plant the
3 whole corner into trees. That's almost seven acres' worth
4 of trees there. Now, some of the federal programs that if
5 you plant 150 trees, shrubs, and every three feet, so you're
6 taking up 150 square-foot area, and plant those 150 trees in
7 there, that whole corner becomes eligible for the government
8 program, the federal program. And so, producers have
9 changed their thought process of going from a big five-row
10 or maybe even a 13-row shelter belt in their corners to
11 those little shrub plantings where some of the upland game,
12 such as pheasants, quail, and those type of birds. So, that
13 has changed why our tree numbers have gone down
14 substantially.

15 MR. BARR: What about water quality and quantity
16 programs? What sort of things have you dealt with?

17 MR. SCHUETH: The water quality issues that we
18 have up in our NRD have been an issue for our natural
19 resource district. Back in 1997, our NRD labeled our full
20 district as a Phase 1, part of our groundwater management
21 control -- groundwater management plan. And so, what that
22 plan was trying to do was really advise individuals of the
23 water quality concerns that we have in our district. And
24 that concern is nitrate nitrogen, and that, we've had
25 various portions of our district -- in generalities, I can

1 say anything north of the Elkhorn River, the actual river
2 itself, we have nitrate issues that are pushing the ten
3 parts per million, which is the federal health standard.
4 And so, our district labeled the full NRD as a Phase 1 to
5 try to start educating individuals. You know, what they are
6 doing with their ground above actually impacts what is
7 happening down below, such as the aquifer system below. So,
8 we have nitrogen certification classes. We have staff
9 people that hold training courses, classes, throughout the
10 winter months to have the farmers come in and become more
11 educated. We can show them the data that we have collected
12 from that year and previous years. Then we stepped up in
13 2003, we increased our requirements for water quality,
14 again, nitrate nitrogen. And that requires the producers to
15 tell us how much fertilizer they're putting on, how much
16 chemicals they're putting on, how much irrigation water they
17 have put on, and how many other type of pesticides that they
18 have put on that field. And we labeled two areas, one area
19 around O'Neill, and another area over by Page, Nebraska.
20 Those were kind of our pilot projects, because along with
21 it, if you're going to ask producers to give you more
22 information, you got to have a database system set up to
23 record so you can evaluate that.

24 MR. BARR: Sure.

25 MR. SCHUETH: So, those were our pilot projects

1 and the producers have worked very well with this. And, of
2 course, you know, there's always that percentage that
3 they'll drag their feet. They will procrastinate getting
4 the forms in, but once we contact them, we have a pretty
5 good rapport with those individuals, and they'll get the
6 information in. Then, in 2012, our board of directors
7 really took a big step and labeled that that area north of
8 the Elkhorn River, as I mentioned before, we labeled that
9 whole area as our Phase 2. And so, we are in the process
10 right now of expanding our database, making it more
11 available to the producers, because if we have 4,000 -- or
12 excuse me, we have about 500,000 acres of irrigated ground
13 in our district, and probably about 300,000 acres of that
14 needs to report that information that I mentioned before.
15 And so, we want to make it as easy for those producers to
16 get that information to us. And so, we're trying to develop
17 an online database form that the producers can sit down at
18 their home, fill out those forms. It'll go into our
19 database and it will do a lot of the work for us here at the
20 office. And so, that, for water quality, that has been our
21 biggest issue. And trying to get the producers to
22 understand that the nitrates that are in the water is the
23 same type of nitrates that you would be applying from
24 commercial production or livestock production.

25 And we do have some very high levels. We have

1 some nitrate levels in our irrigation wells that are pushing
2 30 parts per million. Those are kind of localized areas,
3 but when you look at that and how we try to educate the
4 producer just for easy conversion factor quick, the actual
5 conversion factor for our area is, like, 2.72 for every part
6 per million, but I usually round that up to three. And so,
7 if you had 30 parts per million of nitrate in your
8 irrigation water, that means you're applying 90 pounds of
9 fertilizer just from your irrigation water, if you apply 12
10 inches of water. So, if you take 90 divided by 12, that's
11 almost seven to eight pounds of nitrogen per inch of water
12 that you're putting on. And so, we're trying to educate
13 those producers that that's a valuable commodity in the
14 water. We're not happy. They aren't happy that it's in
15 there, but we might as well be using that nitrogen that's in
16 the water.

17 MR. BARR: Do you work with crop consultants and
18 the ag -- fertilizer companies on these programs, too?

19 MR. SCHUETH: Yes. We try to -- anybody that
20 applies more than 50 pounds of nitrogen, and that's even
21 those individuals that are recommending those -- that amount
22 of nitrogen, they need to come to our certification class.
23 And so, they know the direction we're headed and hopefully,
24 because of the 500,000 acres of irrigated ground up here,
25 and that does not include the dryland, you know, nitrates in

1 the water is getting to be a bigger issue, too, for
2 everybody, and without nitrogen fertilizer in the ag sector,
3 our yield production would probably be cut in half. And so,
4 that is an element, a nutrient element that we need to be
5 able to use. We hear about the world population, what it's
6 going to be in 2050, and somehow, we got to feed them. And
7 so, commercial fertilizer is a part of how we're going to
8 have to feed those individuals into the future. And so,
9 we've got to -- there's got to be a common balance between
10 the use of it and how restrictive we get with it.

11 MR. BARR: Do you have any trigger points
12 or -- for further management activity by the NRD in case you
13 get to a certain level of problem?

14 MR. SCHUETH: Yes. Our Phase 1 that I mentioned
15 before goes from zero to seven and a half parts per million.
16 Our Phase 2 goes from 7.51 to 9.5. Then our Phase 3 becomes
17 9.51 to anything greater than that. And each one of those
18 become more regulatory, more reporting. One of the things
19 that everybody keeps asking us is, if those trend lines
20 continue to move upward, will there be a point in time where
21 the NRDs have -- will make the fertilizer recommendation and
22 will also tell the cooperators the yield production? Within
23 the best management practices that the NRDs can utilize,
24 that is something that is available to the natural resource
25 districts as per their regulation. And we hope we don't

1 have to get there, but I can't say definitely that that may
2 not be an issue.

3 MR. BARR: Do you have any regulation on timing of
4 fertilizer?

5 MR. SCHUETH: We have, in our Phase 2, and again,
6 that gets to be more restrictive into our Phase 3. We
7 really do not want any fertilizer, fall fertilizer to be
8 applied prior to November 1st and prior to March 1st. We've
9 tried to keep that, and so we want that restriction to be
10 kind of excluded during that time.

11 MR. BARR: Any other regulatory area besides
12 timing and recommendations?

13 MR. SCHUETH: Coming to our nitrogen certification
14 class, and so that's a very important item.

15 MR. BARR: Is that annual or periodically?

16 MR. SCHUETH: The certification class card is
17 valid for four years. And so, in their third year, they
18 need to come back and get recertified.

19 MR. BARR: You also mentioned at some point you
20 might have had some concerns on the quantity. Do you have
21 any activities in that direction?

22 MR. SCHUETH: The quantity, when the NRDs first --
23 the first items that they really tried to address back in
24 1972, people were really concerned about the quantity
25 issues. And so, the NRDs, a lot of them developed their

1 groundwater management plan to address quantity. Now,
2 within the Upper Elkhorn NRD, on just groundwater, we really
3 have not had much of an issue. Even in 2012, which as far
4 as my life span, that was the worst drought, I think, not
5 only just for this area, but for the state of Nebraska and
6 for the United States, and even worldwide, that was a very
7 unusual year. And so, when we go back and look at our data
8 that we have, when we look at the 2013 spring static water
9 levels compared to what the spring level of '012 was. We
10 did have the largest drop in our static water levels, which
11 was about three feet. That was an average. And if you look
12 at the reports that the USGS did, across the whole state of
13 Nebraska, that was kind of a common number that showed up
14 across the whole state of Nebraska. And so, within our
15 district, it's kind of amazing. Our irrigation development
16 has increased over the years, and the 2013 static water
17 level is still not as low as what it was in some of our
18 previous years, so we were really shocked with that, because
19 we've had some individuals that was 2012, they applied the
20 most water that they've ever applied. And some of those
21 fields may have been anywhere from 21 to 30 inches,
22 depending on your soil types that you were irrigating. And
23 so, with that large number of withdrawal from about 4,700
24 irrigation wells within our district, we did not see the
25 impact as what we thought we would have seen. Now, in

1 spring of 2014, we've kind of stabilized a little bit and we
2 still have not reached our lowest readings ever. And so, we
3 felt pretty good that we came out of 2012 as good as we did
4 for as hard as everybody had to pump.

5 MR. BARR: Is there any other NRD activities
6 perhaps dealing with communities or any other programs
7 besides the ones you've already mentioned?

8 MR. SCHUETH: Yes. The communities in our natural
9 resource district are very small in nature. We may
10 have -- I think we have a community that is -- which would
11 be Emmet, might have about 50 to 60 people in it, and
12 O'Neill has the largest population, and it'll fluctuate
13 between 3,200 to 3,800 people. And where we differ with a
14 lot of other NRDs, especially when you go to the south and
15 to the east where the general population is, a large
16 population is, they'll have a lot of projects within the
17 urban settings. We'd done very limited cost share items
18 with the communities. One due to the fact that the
19 communities, because of their small nature, they haven't
20 requested. But I'm very happy to say, this year, we had the
21 village of O'Neill, or the community of O'Neill, they had to
22 do some drainage issues within the city of O'Neill, and they
23 came and asked for assistance on it. And so, we were able
24 to give and provide them some financial assistance for that
25 drainage project.

1 Getting back to the water quality issues within
2 our district, where we have helped communities more so such
3 as O'Neill, Orchard, Brunswick, Royal. They have had some
4 issues with -- some nitrate issues. And so, what we try to
5 do is, we'll sit down with them and we'll kind of -- because
6 we have a large database of where we collect water samples
7 from, and we'll sit down with them and we'll try to give
8 them the data and kind of show, well, if I was you, to try
9 to get a new municipal well, maybe I would head over in this
10 direction, based off groundwater flow and what the
11 surrounding nitrate levels are in those irrigation wells.
12 And so, being there to give them some advice on the water
13 quality issues has been our biggest involvement with the
14 communities, except for now, very proud to say that we were
15 able to help O'Neill with a flood project, drainage.

16 MR. BARR: Before we go into general reflection
17 area, is there anything more about the NRD activities or
18 situation, leadership, organization, anything like that
19 you'd like to comment on?

20 MR. SCHUETH: Yeah. I think one of the things
21 that is the forefront of the NRDs is given the makeup of the
22 boards and the concerns that we face -- those communities or
23 the NRDs are faced with, such as water quality and quantity,
24 I think, if you look over the years, NRDs have been very
25 proactive. Now, in some people's eyes, it may not act as

1 fast as what they would like to see, but some of these
2 changes take time, the implementation. As I mentioned
3 before, when I started with the NRD, there was three staff.
4 Right now, as of what we're speaking today, within the Upper
5 Elkhorn NRD, we will have ten staff people. So, we've grown
6 due to the fact of regulations and regulations that may have
7 been kind of due to legislation that has been passed, and
8 also just from our local NRD boards. And I think the
9 direction that our board has done, we weren't afraid to
10 label part of our districts as Phase 2 -- Phase 1, Phase 2.
11 Our districts have -- NRDs have also applied for additional
12 funding mechanism. I mentioned northern Antelope County.
13 We're partnering with four NRDs on water quality issues.
14 And quantities also being involved in there. And you see
15 more partnership than what you would have seen back in 1972,
16 and even when I started in 1986. You see the NRDs really
17 partnering up to try to resolve a common issue, because when
18 the NRDs were developed, you know, you draw a line in the
19 sand. One, you're in this basin, the other one's in the
20 other basin, but the issue may have crossed that boundary
21 line. And I think I would have to applaud the NRDs. Over
22 the last ten years or so, the NRDs have been very willing to
23 cooperate and share funds, staff, equipment to get that
24 concern addressed and try to inform the general public of
25 it.

1 MR. BARR: How do you organize the management of
2 this joint effort?

3 MR. SCHUETH: That's -- we're just getting into
4 it. We just hired a project coordinator for that position.
5 And she will oversee it and she will -- the project
6 coordinator, as you can tell, it's a woman. She will have
7 to be accountable to the other three NRDs and the Upper
8 Elkhorn NRD. That position will be housed out of O'Neill,
9 Nebraska, here. And with that, she will have to give
10 reports on a day-to-day basis. The Upper Elkhorn NRD will
11 oversee that person. But that's a pretty exciting project
12 that we're working on, and hopefully, we're going to be able
13 to showcase that down at the legislative sessions and even
14 at the state conferences.

15 MR. BARR: Can you just kind of outline the area
16 and the NRDs involved?

17 MR. SCHUETH: Yes. The NRDs that are involved is
18 the Lower Niobrara NRD, the Upper Elkhorn NRD, the Lower
19 Elkhorn NRD, and the Lewis and Clark NRD. And so, the top
20 two tiers of townships in Antelope County, and then the next
21 two townships up above of Antelope County, which include
22 Knox, and then Pierce County, which would be in the Lower
23 Elkhorn NRD, would have about a township over to the right
24 of Antelope County. And so, that -- we're just in the
25 process, again, of the coordinator getting on. She'll start

1 tomorrow, actually, and so we'll really start pushing that
2 project forward over the next couple of weeks.

3 MR. BARR: What is the nature of the problem that
4 you're going to be treating?

5 MR. SCHUETH: The nature of the problem that we
6 have is the nitrate concern. The village of Creighton, for
7 example, which is in the Lewis and Clark NRD, they have had
8 a nitrate concern for many years, and they have a treatment
9 system reverse osmosis there. And again, unfortunately the
10 communities in this here area over years, the population is
11 decreasing. And so any additional cost to those urban
12 individuals and it seems like the urban towns in our
13 district and even in the districts that we mentioned, the
14 population is an older generation, and they're on some fixed
15 incomes. And so, if you have to increase their water bill
16 expense by 20 or any dollar amount, it becomes a hardship.
17 So, the Village of Creighton is very concerned about the
18 continuation of their treatment system, the cost that goes
19 along with it. And so, we're trying to educate those
20 producers in there and it's not just the irrigation
21 producers, it's the livestock producers, and also the urban
22 people, because urban people also put on fertilizer on their
23 lawns. They also irrigate their lawns, sprinkler systems,
24 and so they're also part of the issue of what has gotten the
25 nitrate issues up high in that area that I described

1 earlier. And so, that is the main issue.

2 And then also, along with that, water quantity
3 will be an issue, because I mentioned before, they're in a
4 saturated aquifer system that's only about 200 feet. And
5 the village of Creighton's shale where Creighton is, their
6 aquifer system may only go down 120 feet. So, they're very
7 tight on where they can get available water.

8 MR. BARR: Well, that kind of probably covers the
9 current situation. Do you have any thoughts or reflections
10 or anything about the whole NRD process or this NRD in
11 particular that you'd like to mention?

12 MR. SCHUETH: I think the process of the natural
13 resource districts, the concept is very good and it has
14 proven to be very effective. As we go on, there has been
15 some movement, as I stated before, that there're individuals
16 or a group of individuals that think that the NRDs are not
17 moving faster on some water quality or quantity concerns.
18 And so, I think one of the issues that we will have to
19 battle into the future, the last five years to six years,
20 we've been battling this issue, and that is, keeping the
21 senators down in Lincoln all informed about what the NRDs
22 are doing. This year, there's a potential of -- there's 17
23 senators that are being term-limited out. We're going to
24 have a new governor. Along with that comes a new director
25 for the Department of Natural Resources, potentially.

1 There's -- our Attorney General is running for different --
2 governorship, also. And so, when you look at that,
3 depending on who fills those positions, they will have a
4 very big impact on what the future is going to look like for
5 the state of Nebraska, and I also think, for water
6 quality/quantity issues. So, therefore, that puts more
7 pressure on your local NRDs, and so, hopefully, we can keep
8 the senators and keep getting individuals interested in
9 running for the NRD boards that have a vested interest in
10 the resource and not just a one-issue item. And so, I think
11 that's going to be our biggest task into the future.

12 MR. BARR: Any -- I got to get a picture here, if
13 that's okay with you.

14 MR. SCHUETH: Yeah, that's fine.

15 MR. BARR: Probably should take a couple in case I
16 mess up one. And other thoughts about the future or the
17 things that you've seen evolve over the time that you've
18 been here?

19 MR. SCHUETH: I think some of the history that I
20 just talked about with the senators, the turnover in the
21 senators, we're also having that same type of turnover in
22 management. We lost a very effective, very knowledgeable
23 individual, Ron Bishop. And his communication skills were
24 just far above how -- he could talk to a group of people and
25 just kind of have a calming effect on everybody. And so,

1 the knowledge of, in the next three to five years, also is
2 going to impact the management. And so, I think the
3 existing managers that are there, such as myself, I consider
4 myself kind of a young manager, we're going to have to
5 probably even step up even more, because with the turnover
6 in the senators and the turnover in the management, the ones
7 that have been here, such as myself, since 1994, and the
8 other ones that have come on after that, we got to show our
9 faces a lot more to the general public and we got to get our
10 staff out more to the general public. And I think that's
11 going to be the trend that we need to look towards.

12 MR. BARR: Anything else?

13 MR. SCHUETH: I really appreciate the opportunity
14 to sit down with you, Jim, and talk about this, and --

15 MR. BARR: I've enjoyed having you do that.

16 MR. SCHUETH: And hopefully, this is a -- the
17 project ends up good, because it'll be interesting for me
18 just to see how this turns out, so I was very happy to be
19 asked to sit down here and be interviewed, Jim.

20 MR. BARR: Well, thank you very much.

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