
INTERVIEW OF:

RICK LEGVOLD

TAKEN NOVEMBER 6, 1997 AT 9:15 A.M.

COBY

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INTERVIEW OF RICK LEGVOLD, taken pursuant to agreement of and between parties at, Koch Industries, Inc., P.O. Box 64596, St. Paul, Minnesota, at approximately 9:15 a.m. on Thursday, November 6, 1997 before Milo Ballingrud, Notary Public, County of Hennepin, State of Minnesota.

APPEARANCES:

Present from the Minnesota Pollution Control Agency:

DON L. KRIENS, P.E.

MARY L. HAYES

GREGORY BERGER

Present from Koch Industries:

JAMES K. VOYLES, Attorney at Law

Present from the law firm Green Espel:

LARRY ESPEL, Attorney at Law

SUSAN K. WIENS, Attorney at Law

I N D E X

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1 BY MR. BERGER:

2 Q. Just a little introduction we've been doing
3 for all the interviews, Rick. As you know,
4 the Minnesota Pollution Control Agency is
5 conducting a civil investigation that is
6 focusing on Koch Refining operations and on a
7 number of pollution slash environmental
8 related issues that arose from our April '97
9 inspection here.

10 We are seeking your cooperation in
11 obtaining some information through an
12 interview today. We would like you to know
13 that you are not obligated to answer these
14 questions, this is totally voluntary on your
15 part. Information we obtain in this
16 investigation may be used in administrative,
17 civil or criminal enforcement action against
18 Koch Refining Company. This is not an
19 investigation of any individuals at Koch. If
20 we choose one of these actions in the future
21 it doesn't preclude us from choosing another.
22 Any questions about that?

23 A. No.

24 Q. Rick, we have a number of things we want to
25 talk to you about, and I'm going to start off

1 this morning. The first area I want to touch
2 on briefly --

3 BY MS. HAYES:

4 Q. Let me stop you for just a second. Can you
5 state for us your -- give us your history of
6 employment here and give us a general idea of
7 what your responsibilities have been in
8 different positions, if they've been
9 different? If you could go back for us and
10 give us a sketch of that, that would be real
11 helpful.

12 A. My entire career at Koch?

13 Q. Yes, if you would do that.

14 A. I started with the refinery in April of 1981.
15 I worked in the process units as an operator
16 for approximately six years. I went into
17 shift supervision after six years, so I left
18 the OCAW and became a salaried employee at
19 that time.

20 Q. Was that in '87?

21 A. I believe that's correct, November of '87. I
22 was a shift supervisor, relief shift
23 supervisor, and a shift superintendent over
24 the next five years or so. In September of
25 '92 I was promoted to a unit supervisor in our

1 clean fuels area for our 25 unit. We were
2 starting up our now sulfur plants, hydrogen
3 recovery unit, naphtha hydro treater. We also
4 had cooling towers, insulators, but I was in
5 the unit supervisor position at that time.

6 I think in June of '95 I was asked to
7 transfer from that unit supervisor position to
8 the utilities unit supervisor position. The
9 utilities position included the boiler house
10 area and the waste water treatment plant. I
11 was there until April of '97 when I was asked
12 to take a position in developing our safety
13 culture, leading a team effort there, and I
14 continue there until today.

15 MS. HAYES: Thank you very much.

16 BY MR. BERGER:

17 Q. Rick, the first issue I want to talk about
18 this morning has to do with -- it's a specific
19 issue in regards to the coker ponds. Back in
20 February of this year there was a situation
21 where sour water from tank number one was --
22 well, it was taken from the tank and it was
23 brought first down to the Eighth Street sump
24 where it was released there, and then there
25 was a problem at the Eighth Street sump and

1 that sour water was then trucked over to the
2 coker pond. Do you recall that incident in
3 February of this year?

4 A. I recall some of that, yes.

5 Q. Could you explain that situation, why that
6 happened? Well, first explain what sour water
7 is in that tank and what tank one is all
8 about, what did you store, you know, what is
9 sour water.

10 A. The incident that I recall, tank one is a
11 crude tank, and our incoming crude that we
12 process is stored in the seven crude tanks
13 that we have. Tank one is one of those tanks.
14 Part of the waste water operator's
15 responsibility is also controlling the slop
16 production and containing the slop that the
17 refinery produces. It's an oil product that,
18 we recycle into the refinery. If for some
19 reason we were to get out of control in our
20 production and we could not process it back
21 into the refinery using our normal routing we
22 would move it back up into the crude tank and
23 then it would be reprocessed just like
24 incoming crude oil. If this is the correct
25 incident, we had transferred some slop back up

1 to crude tank number one. In addition to
2 crude oil the slop also contains water, and it
3 appears that when we were transferring that
4 slop we transferred some of the water that was
5 also in the slop storage tank in the waste
6 water area up to the crude tank. So you've
7 got a very large tank with crude oil in it,
8 the slop and then a layer of water in it. The
9 tank is not insulated, so there's a real
10 concern with freezing that tank and possibly
11 rupturing lines or whatever. You don't want
12 to have a freeze problem there. So when water
13 is discovered there they de-water the tank.

14 There's not containment that connects
15 that tank all the way to the waste water
16 treatment plan. What I mean is there's not a
17 pipe you can pump it in and get it to waste
18 water treatment, so we have to carry it by
19 truck. So when they de-water the tank they
20 bring a truck in there and hook it up to the
21 tank and let the water run into the truck.
22 That's called de-watering the crude tank.
23 Normally that water is put into what we call
24 the Eighth Street sump area. Are you familiar
25 with that?

1 Q. Right, uh-huh.

2 A. That was started -- my recollection of what I
3 heard happened during that incident was that
4 water was starting to move the normal path
5 from tank one to Eighth Street sump and was
6 being unloaded at Eighth Street sump. The
7 problem was Eighth Street sump didn't have a
8 pump in it. We were not able -- there's a
9 lift pump at Eighth Street sump that lifts
10 whatever is in there and pushes it toward the
11 water plant for treatment. Well, the
12 operator, the contractor that was hauling the
13 water did not know or understand that that
14 sump was not working, and he continued to put
15 water in there, put this de-watered material
16 from tank one in there beyond what the
17 capacity of the sump was.

18 When that was noticed we stopped it and
19 we needed to contain the water and get it out.
20 So we isolated one of the coker ponds, I
21 believe it would be the northeast pond. We
22 isolated that pond and put that de-watered
23 material in there until we could process it.
24 Q. Besides the water, what is in that de-watered
25 material, the sour water, do you know?

1 A. I think it could be a bunch of things. You
2 would have to do an analysis.

3 Q. You're not aware specifically what
4 contaminants are in that?

5 A. Well, you're concerned with ammonias and
6 phenols. There's a lot of concern, but you've
7 got to look at each specific one to know what
8 you've got.

9 Q. So the idea then was to put it in the coker
10 pond and eventually it would be pumped back up
11 to water treatment?

12 A. Right, for processing.

13 BY MS. HAYES:

14 Q. This goes to being here in April when I asked
15 you about that. How often do you need to
16 de-water a tank like that Rick?

17 A. Well, under normal -- I don't know that. The
18 pumping department takes care of that, and I
19 don't know what their frequency is. I think
20 they check them on a periodic basis, and I
21 don't know if that's weekly, monthly or
22 whatever. But on this particular incident we
23 knew we had transferred a bunch of water in
24 there and we knew we had a problem, that's why
25 we were aggressively pursuing it. This was

1 more than just normal de-watering. The
2 incoming crude also contains water in it, and
3 they have to de-water those tanks
4 intermittently anyway, but because we put a
5 bunch of extra water in there in that
6 transfer --

7 Q. Why did you put that sour water in there
8 again?

9 A. It was a mistake. When they pump down oil
10 you've got oil floating on water, and we start
11 transferring the oil because we had inventory
12 problems and containment problems down at
13 waste water. If you pump down too much you
14 start getting into the water, so they depleted
15 all the oil and were actually pumping water,
16 the water layer.

17 Q. Who have you talked to about the normal
18 procedure on maintenance of those tanks? Who
19 would be the person or the department?

20 A. It would be products handling, pumping
21 department.

22 MS. HAYES: Okay. Thanks.

23 BY MR. BERGER:

24 Q. Schlomka does that work, is that correct?

25 A. They were involved in this incident. I think

- 1 they do the majority in the plant, I wouldn't
2 say they do a hundred percent of it.
- 3 Q. When is it pumped out of the tank? Is this
4 water layer at the top or in the middle or
5 bottom, do you know specifically?
- 6 A. I know if you pour oil and water together the
7 water floats on it. I've never been to the
8 tank to witness what's happening when it's
9 been de-watered.
- 10 Q. The question is how do you know you're getting
11 water all the time? Are you aware of that
12 process, the mechanics of that?
- 13 A. I don't know how Schlomka does that. I could
14 suppose, but that would be supposing I guess.
- 15 MR. BERGER: That's all on this
16 issue. Do you have any questions?
- 17 MR. KRIENS: No.
- 18 BY MR. BERGER:
- 19 Q. Can you tell me, Rick, and I'll get the memo,
20 but on a memo there's the term back washing to
21 the coker ponds, and do you know what that
22 means?
- 23 A. Back washing to the coker ponds? It's not
24 ringing a bell right now, no.
- 25 Q. This is a memo from Heather Faragher, and you

1 are on here (indicating). It's dated
2 March 13, 1997 and it's one that we've
3 discussed before, it's 1746. The subject is
4 nitrification and current operating
5 parameters, and it talks about the situation
6 and other current issues that were reviewed.
7 Number one is hydraulic loadings are high
8 right now due to poor water removal and back
9 washing to the coker pond. Back washing
10 should be over by March 24, and then in
11 parenthesis question mark. And pond removal
12 should be done by the end of March if all goes
13 well.

14 A. (Views document) I don't know what that's
15 talking about. The back washing to the coker
16 pond, I don't know of any -- I can certainly
17 understand what's being implied there, but I
18 don't know how we would accomplish that.

19 Q. What's being implied?

20 A. It sounds like somebody is washing something
21 back into the coker pond. I cannot think of
22 any way we would do that.

23 MS. HAYES: Because of your pumping
24 and piping?

25 THE WITNESS: Well, we would have

1 pumped it out of there. You've been down
2 there, there's the creek that flows into it,
3 that open trench. I mean, it's a pond and
4 stuff runs into it, but we would not be --
5 there's no way or reason. If I'm recalling
6 back in March we were fighting high inventory
7 problems, and if we had a way to shut off
8 water going in there we would have been
9 pursuing that. If we were consciously putting
10 something backwards into there I'm sure that
11 would have been an issue. I don't know what
12 Heather meant on this one.

13 BY MR. BERGER:

14 Q. Okay. That's fine.

15 A. But I do know that when inventories are
16 concerned we start working backwards to see
17 what the contributors would be putting water
18 into the coker pond. What that is implying is
19 it sounds like something going in there in an
20 effort to clean something up. That's what I
21 hear.

22 Q. In another interview we did talk about maybe
23 this had to do with back washing the pump to
24 clean them of coker fines, could that be it?

25 A. If that was it that would be a five minute

1 process. I mean, you have a small -- I don't
2 know if it's a 12 or 16 inch pipe, but the
3 suction of the pump could be plugged up and
4 you would not be getting water in in order for
5 the pump to pump it up to the plant. If it
6 was plugged with fines you may back wash, but
7 it would be less than five minutes to clean
8 that debris out of there and then restart it.
9 So that would not be a significant concern the
10 way that's written.

11 Q. All right. Another area I want to touch on is
12 the lower lagoon, and are you familiar with
13 that area?

14 A. You're talking about an area north and east of
15 the control room, kind of a low area?

16 Q. Right. We are aware that on a number of
17 occasions hydro testing, water from the hydro
18 testing of tanks, went to that lagoon. Are
19 you aware of that?

20 A. I don't know the route. I suppose it's
21 possible. I couldn't walk out and show you
22 how that happened today.

23 Q. I have a memo from Heather again, and this is
24 called water weekly update and it's dated
25 Thursday, March 14, 1996. It's document

1 number 1854. It's just a -- actually this is
2 from Heather, she took this off her computer.
3 The memo is from you. You have a number of
4 items, I think there's like over a hundred
5 here, of projects that are going on and who is
6 working on them and what the update is. In
7 number 75 it's in regard to the lower lagoon,
8 and it states FCC sewer to lower lagoon. The
9 next sentence is is it permitted? And then
10 note from Heather, working with the MPCA to
11 reclassify this as storm H2O basin, work in
12 progress, no water should be going into the
13 basin, especially processed water, on purpose
14 (indicating). What is the FCC sewer?

15 A. The FCC had a storm sewer that would collect
16 storm water and runoff. Let me go backwards a
17 little more and I'll try and clarify where the
18 water weekly came from.

19 Shortly after I came down there I
20 continued to get suggestions from operators
21 and things that they said, that this has been
22 brought up before, what's happening with it.
23 Well, I didn't have any way of knowing what
24 had happened before I got down there, so I
25 start composing this list to try and keep

1 clear records of what's going on and what
2 questions are being worked on. Someone came
3 in and said that there's a sewer from the FCC
4 that dumps into the lower lagoon, that was a
5 statement that was made. Whether that's true
6 or not I have no way of knowing. As I started
7 asking questions to find out where are we, has
8 this been looked at, I wanted someone to find
9 out what the real routing of that pipe was and
10 is it okay. So that's the question on there,
11 is it permitted. Then a note from Heather,
12 that's directly from Heather, my understanding
13 was that it's a storm sewer -- I don't know
14 how to explain it. The FCC built a second gas
15 plant called the 18-2 unit. My understanding
16 is that's what they did with the storm water
17 from that area, it was routed via a pipe
18 toward the lower lagoon and dumped in down
19 there. My understanding is it's storm water
20 only. You're familiar with how we segregate
21 storm water from oily water in the unit?

22 Q. I'm getting familiar, yes.

23 A. We have raised cups to catch off the pump a
24 dedicated sewer that will make sure anything
25 that comes off of a possible oil contamination

1 will feed into the water treatment plant.
2 Main runoff water, just rain water, is
3 collected in a different system and that does
4 not necessarily go through waste water
5 treatment. My understanding was that this was
6 something that was dumping from this newly
7 constructed unit to clean rain water to get to
8 the lower lagoon.

9 Q. Is that currently your understanding?

10 A. That's currently my understanding.

11 Q. Do you know what the FCC stands for?

12 A. Food catalytic cracker.

13 Q. That's a unit, an area that --

14 A. That's a process unit. Specifically this is
15 coming from the 18-2 unit, the gas plant area.
16 There was an expansion, and that's how that
17 got routed that way.

18 BY MR. KRIENS:

19 Q. So currently it is routed through a sewer to
20 the lower lagoon are you saying, or it's
21 routed to the clean water sewer?

22 A. It goes to the lower lagoon is all. Well, I
23 someone would have to actually run the pipe
24 out, and it's underground.

25 Q. We saw three pipes coming out there, and would

1 it be one of those do you think?
2 A. I could only guess. We continually would pump
3 out of that lagoon. We had issues, operators
4 were concerned about wildlife, we had ducks
5 nesting in there, and some of the operators
6 were concerned if we pump it all the way out
7 it will dry and kill them. We continually
8 pumped and there seemed to be water that was
9 coming in, and my guess was it was coming from
10 that storm sewer. That's the only thing I
11 could put a finger on that I knew was feeding
12 it.

13 BY MR. BERGER:

14 Q. Are you aware or were you aware that the lower
15 lagoon is being investigated by the Minnesota
16 Pollution Control Agency and by Koch in the
17 solid waste unit, that there's contamination
18 underneath that lagoon?

19 A. I heard as a result this (indicating), I had
20 heard some of those things were being looked
21 at. It was our intent to not let anything get
22 in there and to try and maintain the levels
23 below. We would have liked to have dried it
24 out if we could, but with the pumps we had we
25 were able to keep up and that's about it.

- 1 Q. Anytime it rained water collected in that FCC
2 area, clean water?
- 3 A. It also collects in that big open pit there,
4 too, the pond itself.
- 5 Q. Everything drained there?
- 6 A. Sure. My understanding was the only other
7 thing that would drain into there was the
8 18-2, which is part of the FCC.
- 9 Q. Okay. What is your knowledge of hydrostatic
10 testing water being released to the lower
11 lagoon? I have a log here of -- waste water
12 treatment plant log of August 23 and 24 of
13 '95. It states about halfway down drain tank
14 four to south lagoon via hose. I believe
15 that's the same lagoon.
- 16 A. Well, tank four is way up on the south end.
- 17 Q. Maybe it is a different lagoon?
- 18 A. Well, that would be one long hose.
- 19 Q. All right. I just saw the word south there.
20 Tell me about that one.
- 21 A. I have no knowledge of that.
- 22 Q. Okay. Then in general --
- 23 A. Well, you're making me remember things. There
24 is some piping up in the tank farm on the
25 north end of the refinery that somehow works

1 its way to get water toward Eighth Street
2 pump. Sometimes hydro water could be put in
3 that way. I've never done it. The products
4 handling department would take care of
5 whatever those mechanics were. They would
6 give us a courtesy call to tell us that extra
7 water was coming our way, and I might receive
8 that phone call. So that would tell me they
9 were dumping a tank or somehow were getting an
10 increase, it would increase our hydraulic
11 loading on the plant. It would be a courtesy
12 call when they were dumping something. I know
13 what system exists out there, but I could not
14 take you out and show you.

15 Q. You're talking about tank four?

16 A. Maybe. I don't know that for sure.

17 Q. Okay.

18 A. But there is a collection system so they don't
19 have to run hoses or truck everything out
20 there.

21 Q. What is your knowledge of releases of
22 hydrostatic testing water to the first lagoon
23 we were talking about on the north side, the
24 lower lagoon?

25 A. I don't know of any.

1 Q. You don't know that that procedure was done?

2 A. No. I'm trying to think how it might be
3 possible, but I don't know of an instance
4 where we would directly pipe hydro water to
5 the lower lagoon. We would be opposed to
6 that. As waste water operators, we would not
7 allow that to happen out there.

8 MR. BERGER: If you guys have
9 questions about the lower lagoon, go ahead.

10 MR. KRIENS: Go ahead and finish up.

11 BY MR. BERGER:

12 Q. I guess I really don't have anything more on
13 that. It was an issue that has been discussed
14 a number of times, there are some memos from
15 Heather regarding the lower lagoon and the
16 requirements about pumping flow rates and
17 amount of time a pump is operating and the
18 volumes of water that may remain in the
19 lagoon. You are correct when you say this was
20 something that was that -- an effort was made
21 to try and minimize that, because Heather does
22 state in the memo do not deliberately add
23 waste water, storm water flows to the lower
24 lagoon.

25 A. Right. And that was consistent the whole time

1 that I'm aware of. We had some big rainfalls
2 that tended to want to fill that, and the
3 issue I recall on it is there's electrical
4 feeders to the pumping station down there, and
5 first of all we did a big project so we could
6 maintain the pump. The access out to the pump
7 was not very good and that was written up, it
8 was one of the items on the water weekly, to
9 make that where it was safe and people could
10 access work on the pump without walking on the
11 rickety boards and what not. We put in a nice
12 dock going out there.

13 The electrical service to the pump was at
14 a level (indicating), and as we started losing
15 the battle with heavy rainfalls, as that level
16 came up it became an issue to not let the
17 water levels get above that electrical switch.
18 I think we brought Schlomka down there a
19 couple times and had him pumping in addition
20 to the pump that was in place, he would bring
21 a portable pump down to maintain there.

22 Q. It would be pumped from the lower lagoon to
23 where?

24 A. Up toward B5.

25 Q. Toward B5 or to B5?

1 A. Well, I don't know that.

2 MR. KRIENS: I remember reading a
3 document or information given to us, and I
4 think it can go over to the equalization
5 basins I believe. The pipeline is limited in
6 capacity, so I think additionally --

7 THE WITNESS: That's probably the
8 normal routing. I'm not positive on that.
9 I'm fairly sure when Schlomka would do it we
10 would pump it up into B5 because it was
11 temporary hosing and pump.

12 BY MR. KRIENS:

13 Q. You mentioned the FCC unit, and was it unit
14 18, the new FCC unit?

15 A. 18-2.

16 Q. When was that installed? Was it relatively
17 new?

18 A. I would be guessing. I would say early '90s,
19 the late '80s or early '90s.

20 Q. All right.

21 BY MR. BERGER:

22 Q. I don't have any further questions regarding
23 the lower lagoon. Let's move on to another
24 issue.

25 I want to talk about the oily water sewer

1 system here at Koch and what your knowledge is
2 of releases to that oily water sewer system
3 from the process unit. You've stated you
4 started working at Koch in 1981 on process
5 units. We have documents and logs, and I can
6 get those specifically later on, but first I'd
7 like to talk in general, that indicate that
8 there are materials that possibly may be
9 hazardous waste that were released to the oily
10 water sewer system. Can you tell me what your
11 knowledge is of how that oily water sewer
12 system is used in the process units, what it's
13 for?

14 A. Well, it's to collect water that can be
15 contaminated with oil and goes to the water
16 plant. It's a collection system that feeds
17 the water plant.

18 Q. Where does that water come from?

19 A. From all of the process units in the refinery.

20 Q. It comes from the actual units?

21 A. What I'm talking about there are locations of
22 the units. It's not connected to the
23 processing. There is always a break in it.

24 Q. Okay. Are you aware of materials like naphtha
25 being disposed from the oily water sewer

1 system from units?

2 A. That could happen.

3 Q. Under what circumstances would that happen?

4 A. If an operator was opening a valve to drain
5 water out of a system and maybe drained too
6 much water to get the naphtha.

7 Q. Would there be any situations where it would
8 be --

9 A. Well, that's not true either. Most of the
10 water that's contained like that goes into the
11 sour water system which is collected in the
12 plant and runs through the sour water
13 strippers.

14 MR. KRIENS: Normally it would go
15 that way, the lower fraction would drain off
16 you're talking about?

17 THE WITNESS: Yes. It would go to
18 the sour water strippers.

19 BY MR. KRIENS:

20 Q. When they say medium and heavy fractions,
21 there's a certain fraction in that column, I
22 guess, that is medium density and then a
23 heavier density, still lighter than water
24 though, and would that be -- it seems to us
25 that would be an unusual part of the product

1 to go into the sewer system.

2 A. Yes.

3 Q. And yet in that log it does state medium to
4 heavy naphtha coming down the sewer. Are
5 there situations, upset situations or
6 something when that can occur?

7 A. I suppose. What would happen, the best thing
8 I can think of that would happen under those
9 circumstances, usually you have to buck some
10 kind of pressure to get into the sour water
11 system. I mean, it's not a free drain. So if
12 you don't have pressure to get into the sour
13 water strippers, if you're sitting there with
14 an exchanger that has product and water in it
15 and you're taking it out of service, you don't
16 have pressure to push it into the sour water
17 system. Something like that may be drained or
18 washed to the oily water sewer, I could see
19 where that would happen.

20 BY MR. BERGER:

21 Q. I have a memo -- not a memo, a waste water
22 treatment plant log, from February 26, 27 of
23 1997. It states on the bottom of the log poly
24 called, said they would be dumping 200 to
25 300 gallons each time of medium to heavy

1 naphtha down the sewer at two different times
2 today (indicating). Can you elaborate on what
3 that, what that's about? Do you have any
4 knowledge of what's going on there?

5 A. I'm not sure. I have worked in the poly unit.
6 I don't know what this incident would be.
7 Maybe a washing that's going on, but I don't
8 know what it is.

9 BY MS. HAYES:

10 Q. Under the scenario that you described where it
11 could possibly happen, Rick, a minute ago
12 before he read the log -- well, what did you
13 say again? Would you go back and explain that
14 again? I'm getting confused between what --

15 A. You could have an exchanger you're taking out
16 of service that is contaminated and you don't
17 have any pressure on it and you couldn't get
18 it into the sour water system. You may dump
19 it to the sewer then.

20 Q. In that kind of a case that would be something
21 that --

22 A. In my mind that would trigger a single dump,
23 not multiple.

24 Q. Would you have notice of something like that,
25 the person that's doing it, would they have

1 time to be thinking of that and call?

2 A. In most cases the waste water treatment plant

3 would get a call that something unusual is

4 going on and here's what to watch for.

5 Q. So is that an emergency kind of scenario would

6 you describe that as?

7 A. Emergency is a pretty big word out here. When

8 we think of emergencies we are usually

9 thinking of --

10 Q. Things like fire?

11 A. Equipment or personnel risk, something going

12 on, possibly fire.

13 Q. But you're saying the kind of thing that you

14 just mentioned would be the sort of thing you

15 would at least stop and have a chance to make

16 a call probably, right?

17 A. Probably.

18 BY MR. BERGER:

19 Q. Along the same line, I have a memo here -- not

20 a memo, a waste water treatment plant log,

21 excuse me, from June 7, 1994. I think this is

22 the first time we've talked about this, and

23 there's no document number. The memo states

24 on the third line down under comments, the log

25 states poly washing sand filter.

- 1 A. There you go.
- 2 Q. Caustic naphtha and then there's an arrow to
- 3 OWS.
- 4 A. Oily water sewer, sure.
- 5 Q. Can you tell me what that means?
- 6 A. It's a piece of process equipment that fouls.
- 7 Again, when you take it out of service to wash
- 8 it you wash it through the oily water sewer.
- 9 Q. What is washed out of it?
- 10 A. Solids, whatever is fouling the sand. It's a
- 11 sand filter to collect contaminants that's in
- 12 the process. When it gets so impacted with
- 13 the solids you can't flow through it anymore
- 14 and you take it off line and back wash it to
- 15 lift the solids out.
- 16 Q. Back wash it with water?
- 17 A. Uh-huh (nodding).
- 18 Q. And the naphtha, is that in there, too?
- 19 A. Part of that treatment, you have water,
- 20 caustic and naphtha, that's what happened
- 21 prior to this vessel. And then this vessel
- 22 filters out any solid contaminants that are in
- 23 there. So those are all the things that could
- 24 be in there.
- 25 Q. But basically it's sand though, it's solids,

- 1 is that correct?
- 2 A. That's what it is in the vessel and the
3 purpose of the vessel, to filter, and it uses
4 sand as the filter medium. The process stream
5 it's going through contains water, caustic and
6 naphtha. So you take it out of service so
7 it's isolated from the process and then you
8 would back wash it to the sewer.
- 9 Q. And you're saying there still could be small
10 amounts of naphtha and caustics still in that
11 vessel?
- 12 A. Yes. Then a majority of what you would see
13 would be water you're using for the wash.
- 14 Q. And an attempt would be made to drain that
15 unit to get all of that out of there first,
16 correct?
- 17 A. Yes, however they would do it. I don't recall
18 how that happens.
- 19 Q. Okay. Is there a connection, do you think,
20 between these two then?
- 21 A. There could be. I don't know why you would do
22 it multiple times though. Now, there are
23 several sand filters, I think two or three.
24 I'm remembering 15 years ago now. They may
25 have had something that came through and

1 plugged them all up and they needed to clean
2 them all, and over the day they would do them
3 one at a time, something like that. I don't
4 know that particular incident.

5 BY MR. KRIENS:

6 Q. Is seemed different to me because this looks
7 like a normal back wash of a sand filter, and
8 you happen to have those streams going in
9 there. I would think it's a relatively common
10 back wash that's done periodically.

11 A. And there's a tendency on the waste water
12 operators to look at the worst thing that
13 could happen to them. If someone called and
14 said they were going to dump 200 to
15 5,000 gallons of water, it may show up in the
16 log as we may have up to 5,000 gallons of
17 water. You prepare for the worst case
18 scenario, and that's usually what gets
19 indicated.

20 Q. The one where they talk about the 200 to
21 300 gallons several times a day I think is
22 unusual it seems because it identifies it as
23 medium to heavy naphtha down the sewer. It's
24 somewhat different than a sand filter or a
25 caustic back wash and so on.

1 A. The terminology gets different. The sand
2 filters are actually on full range crack
3 gasoline, and that's a product that comes off
4 the FCC. The heavy and medium naphthas are
5 products that come off the crude units which
6 go on to further processing and don't go
7 through a sand filter. But FRC, the full
8 range crack gasoline that does go through it,
9 if you look at it and look at the properties
10 of it, it looks a lot like heavy to medium
11 naphtha. So an operator calling down to waste
12 water may not make the differentiation that
13 it's full range crack naphtha versus heavy,
14 medium naphtha. Heavy medium is a more
15 generic term that describes the product. More
16 people are familiar with it because it's used
17 throughout the plant, it comes out very early
18 into the process. Full range crack is a
19 product made at the tail end of FCC and not as
20 many people see it and it's not a term people
21 are as familiar with, but that's what goes
22 through the sand filters.

23 I don't know of anything in the poly unit
24 that has a true heavy medium naphtha streams
25 going through it. That's why it's confusing.

1 MS. HAYES: Except that the person
2 who called works with that stuff all the time.

3 THE WITNESS: The person that called
4 works with it, yes, knowing that waste water
5 treatment operators don't. Most of the
6 process unit operators have some concept of
7 what we're doing down in waste water as far as
8 skimming oil from water, and heavy to medium
9 naphtha would be the same property as full
10 range crack as far as skimming off water.

11 MR. KRIENS: Do you know who the
12 operators are, T.B. and K.N.

13 THE WITNESS: T.B. I would guess is
14 Tom Bailey, and probably Kevin Nayru.

15 BY MR. BERGER:

16 Q. Another specific instance of a release to the
17 oily water sewer system that I'm concerned
18 about has to do with this log dated 8/22/94.
19 It states hazmat people will be dumping about
20 20 to 30 gallons slowly of xylene, and then in
21 parenthesis paint thinner, down at Eighth
22 Street sump. With all the dilution we
23 shouldn't even see it. This is one we've
24 talked about a number of times (indicating).
25 Any comment on that? Does that surprise you?

1 Are you aware of things like that happening?

2 A. No. That surprises me. Of course this is
3 several years ago and before I was down there.
4 I don't know what xylene -- I mean, if they
5 call it a paint thinner, I'm not aware of that
6 one, any times anything like this would have
7 happened. It was before I was down there. I
8 don't recall any of that incident.

9 Q. So it's correct to say to your knowledge this
10 isn't a general practice?

11 A. No, definitely not.

12 Q. Okay. I have several logs here regarding
13 sending high pH liquid water from the alky
14 unit. Just for my knowledge, would you tell
15 me what that's about.

16 MS. WIENS: Say the date again.

17 THE WITNESS: This is February 27
18 and 28 of '97. Night shift on the 27th of
19 February of '97, another one from November 3
20 of '96, another one from March 12 of '97. I'm
21 not as familiar with the alky unit operation.
22 The alky unit does use acid and caustic, and I
23 do know they have a neutralization pit up
24 there and that they neutralize acids and
25 caustics. They do the neutralization in the

1 pit, test for pH and then bleed that water
2 into the oily water sewer. They call the
3 operators to let them know we have a pit full
4 and we're dumping it, it's high pH. That's
5 basically what I know about it.

6 BY MR. BERGER:

7 Q. Do you know the generation source, how that
8 material is generated?

9 A. I'm not real familiar with that.

10 Q. All right. I have the same memo we talked
11 about earlier this morning, the water weekly
12 update of March 14, 1996. Another entry that
13 you made is number 88, and it reads
14 suggestions to dump barrels of flake caustic
15 into system. That is an attempt to avoid
16 disposal costs. What are concerns? Then
17 there is a 10/4 with your name.

18 A. I believe we had a couple drums of caustic
19 that was in a dry flake form, and the question
20 was being asked can we put this in the system
21 for pH adjustment rather than dispose of it as
22 hazardous waste. I don't recall what we did
23 with it though, I don't recall the disposition
24 of it, if we decided to put it into the system
25 or not. I don't remember that.

- 1 Q. So somebody made that suggestion to you?
- 2 A. Right. I was supposed to follow up on it.
- 3 Q. You were concerned, and that's why you wrote
- 4 is it an attempt to avoid disposal cost?
- 5 A. Well, we had acid and caustic down to the
- 6 system to process the control system, and it
- 7 seems this is another form of the same thing
- 8 we're adding. Why spend disposal cost if we
- 9 can use it? That's why the question was being
- 10 asked.
- 11 Q. Do you know how that situation came out?
- 12 A. I do not know.
- 13 Q. Do you know who followed up on this?
- 14 A. I do not.
- 15 Q. Your name is behind that, so what --
- 16 A. That should have been my responsibility. It
- 17 was in my lap is how I left it.
- 18 Q. And you don't recall the --
- 19 A. I don't recall what he did with it.
- 20 Q. Can you find out what happened?
- 21 A. I don't know. I can try.
- 22 Q. We would appreciate that. If it was used let
- 23 us know how it was used.
- 24 A. What was the date on that?
- 25 Q. The memo is March 14 of '96, number 88. If it

1 was shipped off as hazardous waste we would
2 like to see the manifest for that.

3 A. Sure. That was in barrels?

4 Q. Yes. The last area I want to touch on this
5 morning is in regards to the API separator.
6 Are you familiar with that unit and how it
7 works in general?

8 A. Yes, I am.

9 Q. We have looked at a couple of memos here
10 regarding a situation with concern over the
11 walls of the API separator, that the walls of
12 the separator may have cracked and have been
13 leaking. Are you aware of a problem like that
14 with the API separator?

15 A. We found some cracking and we repaired some
16 cracks on it.

17 Q. When did that take place?

18 A. I don't recall a specific date. I think we
19 could maybe go back in our -- I don't know the
20 date.

21 BY MS. HAYES:

22 Q. When you say we, who is that?

23 A. We is Koch.

24 Q. Is there a department or a capacity you worked
25 in, you and a team?

- 1 A. No. This was within the last couple years
2 when I was the unit supervisor down there. I
3 don't recall why we had exposed some of the
4 wall, but when we exposed some of the wall
5 below grade at API we noticed some cracking.
6 I believe it was Brian Guarneros, but I'm not
7 sure, worked with an outside contractor that
8 said they had something they guaranteed would
9 plug it and hold. The only reason I remember
10 is it seems to me there was a guarantee that
11 if it didn't hold we wouldn't have to pay for
12 whatever the goop was they were plugging
13 cracks with. I don't recall what that company
14 was.
- 15 Q. Was there excavating around there at the time
16 you found the problem?
- 17 A. We would have been excavating, but I don't
18 recall what triggered us to be digging in
19 there right now. We did do some digging, and
20 for some reason the wall was exposed and we
21 noticed cracks and decided to do something
22 about it.
- 23 Q. Ordinarily you would probably excavate if you
24 saw some signs of problems?
- 25 A. Yeah, if we saw a problem. This was below the

1 sight line and we were doing some excavating
2 in the area and saw it.

3 BY MR. BERGER:

4 Q. I have a memo, I guess you could call it, and
5 I believe this was written by Todd Aalto.
6 It's dated 9/2/95. It has a diagram of the
7 API separator, and he's noting the problems
8 with the separator and leaks. He points out
9 several areas of the separator where there's
10 possibly leaks or small leaks. Have you seen
11 that document before (indicating)? It's
12 number 5486.

13 A. I may have seen it. I'm not recalling it
14 right now. Oh, these leaks are talking about
15 the cone skimmers leaking into the sump.

16 Q. Explain that as much as you can. We would
17 appreciate that.

18 A. I don't know if I can do it verbally or not.
19 The cone skimmers look like a funnel if you
20 look at them at the top. They fit inside a
21 sleeve and the operators raise and lower that
22 funnel to drain the oil that's accumulated on
23 top of the water into this sump. They will
24 adjust that, there's a handle that raises and
25 lowers the funnel into the sleeve, and that

1 sleeve is below the water level and there's
2 rubber seals around it, otherwise you would
3 have water leaking into there all the time
4 because the water level is always carried
5 above where this mechanical contraption or
6 device fits together. What Todd is pointing
7 out here is that those seals are shot because
8 we're getting a constant flow of water into
9 the sump. Which is a bad thing. This water
10 is fed into the sour water system and then we
11 end up -- well, I shouldn't say that. I think
12 I misstated that, but you can get additional
13 water into the sour water system if you
14 overload that sump. We needed to fix that.

15 The same thing here (indicating).
16 There's an additional valve, and once we
17 discovered this was leaking into the sump all
18 the time, until we could get at those seals to
19 replace them we closed the T handle to isolate
20 this part of the API from the sump. When you
21 talked about leaks before, the excavation we
22 had was in this area up here, we had done some
23 excavating and we saw some cracks in the wall
24 that looked like oil was leaking out and
25 that's what we attempted to patch. This is a

1 different issue, this was a mechanical
2 problem.

3 Q. Internal mechanical problem inside?

4 A. Yes.

5 Q. All right. I have a memo of June 9, 1996, and
6 we discussed this one before, it's number
7 1958. The subject is API walls and it's from
8 Eric Askeland to Heather Faragher. It's
9 talking about remediation and problems with
10 the API walls. It says from an environmental
11 protection standpoint we need to stop the
12 problem. Basically Koch needs to repair the
13 walls in such a manner that we don't expect
14 the problems to continue.

15 Further down it states have we gotten to
16 the point where we can determine the extent of
17 seepage? It is of significant quantity -- is
18 it of significant quantity that we should
19 notify the MPCA? We will ultimately want to
20 notify them, however, our recent digging in
21 area leads me to believe that any
22 contamination from the API walls would be very
23 extensive.

24 A. (Views document) I don't recall this. We had
25 a lot of concerns as we discovered the cracks

1 in the API walls.

2 Q. What you talked about, the cracks that you
3 discovered, is that what is being discussed
4 here, do you know that?

5 A. I don't know that, but I would imagine that's
6 what it is.

7 Q. And you mention that the situation has been
8 corrected as far as you know?

9 A. Right. We were happy with the results we got
10 from this -- I want to say it was Belzona, but
11 I'm not sure who the contractor was that came
12 in with the magic goop that would stick. It
13 did take several attempts to do it, but we
14 were happy when they completed it and filled
15 it back in.

16 Q. Do you know when that occurred, when that work
17 was done, the repair?

18 A. I don't know. I would guess it was probably
19 that time frame.

20 Q. Do you know who was responsible at Koch here
21 to oversee that project?

22 A. I believe it was Brian Guarneros, the engineer
23 we had. I may be wrong about that.

24 MR. KRIENS: Eric wrote that memo,
25 and would he have been involved with the

1 repairs?

2 THE WITNESS: He may have been
3 involved with Brian, I don't know that. It
4 would make sense to me.

5 BY MR. BERGER:

6 Q. There was a situation that occurred June, July
7 of '96 where Koch discovered a leak in a
8 valve, bypass valve, I believe it would be
9 just south of the API separator, and you guys
10 correct me if I'm wrong here. Are you aware
11 of that incident, where there was a major leak
12 discovered in a valve? I don't know how big.

13 A. I know it was heavily suspected, but I don't
14 know how it would have been discovered. It's
15 all underground piping.

16 Q. A memo of 4/10/96 I have here, a log of
17 4/10/96, mentioned crane fell into sinkhole
18 southeast of API. Sixteen yards to fill hole.

19 A. I recall that.

20 MS. WIENS: It's number 303.

21 BY MR. BERGER:

22 Q. The information we have is sinkholes developed
23 right above or near this area where this valve
24 was leaking underground, and eventually a
25 crane, as it states here, was sitting there

1 and one of its legs fell into a sinkhole that
2 had developed.

3 A. Basically that's --

4 MS. WIENS: Do you understand the
5 crane fell in the sink hole or everything else
6 that he said?

7 THE WITNESS: I understand we had a
8 crane that was going to lift a piece up and
9 one of its wheels went through into a void.
10 He put his legs out. He was positioning to
11 make a lift and all of a sudden he was stuck,
12 couldn't move. He got out of the crane and
13 there was other hole under one of his wheel.
14 He immediately put his legs out on the crane
15 to stablize himself, and then we found this
16 hole under there, a sinkhole, a void, and
17 started looking into it. I don't see a very
18 clear connection between this leaking valve.
19 My recollection is what would make us think
20 that the valve was leaking off API.

21 The API is your raw oil and water
22 coming into the separator. The bypass line we
23 used to control whenever there's a large
24 rainfall and we're getting more water than we
25 could hydraulically process through API, we

1 would bypass some of the API so we don't
2 overflow API, and I believe we report those on
3 bypass logs. That's a common occurrence, to
4 bypass it for containment purposes, to keep
5 water in API so you don't overflow it during
6 high hydraulic loading.

7 BY MR. KRIENS:

8 Q. When you say bypass you mean bypass through
9 the equalization tanks.

10 A. Bypassing the API only, right.

11 Q. When a sinkhole develops is that consistent
12 with the pipe, the bypass pipeline leak that
13 was discovered then? In other words --

14 A. Yes. When we started digging that's when we
15 found the piping that was damaged.

16 Q. So to me it doesn't make sense that the crane
17 caused the pipe damage, rather that the pipe
18 might have been cracked or was leaking out,
19 caused the erosion and then the sinkhole
20 developed and the crane was there and dropped
21 its wheel into the hole. That makes more
22 sense, and does that make sense to you?

23 A. I wouldn't think the crane is what caused the
24 pipe damage. I hope I didn't say that.

25 Q. You didn't, I'm just trying to clarify.

- 1 A. No, I wouldn't think so either. I believe it
2 was actually concrete piping or whatever that
3 is, I don't know if piping is the right word
4 for it, duct way maybe, that had failed and
5 that's what carried the sand away.
- 6 BY MR. BERGER:
- 7 Q. Are you aware of other sinkholes developing in
8 that area and being filled in by Koch?
- 9 A. Operators told me it happened in the past.
- 10 Q. How often were you told about that or did you
11 hear that?
- 12 A. I was told that it happened multiple times in
13 the past. I'll admit to you how I hear that.
14 Part of an operator -- the way things tend to
15 get done is you start crying wolf, and when
16 you cry wolf enough times then action gets
17 taken. There's a tendency to maybe say, geez,
18 it's happened every month for the past 12
19 months. That's probably not reality, but it
20 may have happened a couple times. I had heard
21 enough about that so that I was concerned,
22 especially when we found that sinkhole, that
23 we ought to be pursuing down that line to see
24 if there's something else going on downstream.
- 25 Q. Do you know where that --

- 1 A. We dug up further down where the other areas
2 with sinkholes were.
- 3 Q. When you first started -- when you first
4 discovered the sinkholes?
- 5 A. Right. We found an additional piece of piping
6 that was not leaking, but it had been damaged,
7 and so we replaced that.
- 8 Q. Were there sinkholes developing in this area
9 where the crane fell in?
- 10 A. Right.
- 11 Q. Earlier?
- 12 A. I had heard there had been sinkholes and sinks
13 filled.
- 14 Q. Just filled in?
- 15 A. Right.
- 16 Q. But you're saying where this work happened,
17 where the work was done was further down the
18 line and not in this area?
- 19 A. It was in the area where the sinkhole was.
20 That's where the cement like had fallen apart.
21 After we replaced that section we continued
22 downstream, down the normal path, and looked
23 for additional problems. We did find another
24 piece of pipe that had been collapsed. It was
25 not leaking, but had been collapsed, and so we

1 went ahead and replaced that piece of piping.
2 That one looked like a crane had run over the
3 second one, or something. It was its normal
4 width and then a big divot in it. From my
5 point of view operating the water plant, a big
6 divot was going to reduce the amount of water
7 we could put through there. It's like
8 pinching a garden hose. I wanted that out of
9 there and so we replaced that.

10 MR. BERGER: Any other questions
11 with that?

12 BY MS. HAYES:

13 Q. Yes. Do you know if there was any soil
14 excavated or any --

15 A. There had to be, but I don't know the
16 disposition of it. I do recall that Heather
17 was concerned about testing it.

18 Q. You don't know how that ever ended up?

19 A. No. That kind of went into our hazmat group
20 and I wasn't responsible for that group.

21 BY MR. BERGER:

22 Q. But it's your belief or knowledge when these
23 sinkholes first started to develop, when they
24 first started to develop and the investigation
25 started, that you started to dig up the pipe

1 or around the pipe in areas to try and find
2 out what was going on?

3 A. I had heard that we had sinkholes. You know,
4 we've got -- operators make the rounds in
5 pickup trucks, and from time to time there
6 will be a low spot and then it's mud and they
7 have to drive through the mud or they may have
8 to get out in the mud. They will say that
9 there's a sinkhole going over here or
10 something. In those cases it's probably just
11 a low spot and we put gravel in there. At
12 that point we don't do any kind of
13 investigation. And we did do that, we did put
14 gravel around and try to make it where they
15 had better access to do the things they needed
16 to do on the normal rounds.

17 But when all of a sudden you have a drain
18 finding a void that took 16 yards of fill
19 into, you know something is going on there,
20 and we would pursue that aggressively.

21 Q. When they first started happening you're
22 saying it wasn't to a degree where it raised a
23 flag saying there's a problem?

24 A. I wasn't aware of any. They had come to me
25 several times saying we needed fill here and

1 there and we would do normal fills. I view
2 that more as road maintenance. They also
3 would tell me we've had sinkholes over here
4 before, so you've had a sinkhole there, and my
5 response would be to keep an eye on it. That
6 was the same area that the crane went through,
7 so when the crane goes through, that triggers
8 a big investigation and we went on from there
9 then. The operators said that the area had a
10 problem before and they told me it had been a
11 repetitive problem, but at that time I think I
12 had been there six or eight months and we
13 didn't have a hole, nothing to trigger a major
14 investigation in my mind at that point.

15 MR. BERGER: That's all I have.

16 BY MS. HAYES:

17 Q. Rick, do you need a break?

18 A. No, I'm fine.

19 Q. I'm Mary Hayes, I work in the division of
20 water quality, and I would like to talk to you
21 about a couple of issues. I guess based on
22 your experience with the waste water treatment
23 plant and you being supervisor there I would
24 like to talk to you generally about some of
25 the items I wanted to talk to the operators

1 about. And I guess the first is oily water
2 into the non-oily water sewer, that problem
3 that we discovered when we were out there in
4 April. I'm talking about near tank 500 where
5 you have the bubbling up and going into the
6 clean water sewer. I guess if there's other
7 areas you are aware where that is happening I
8 guess I would be interested in hearing about
9 that. Are you aware of others?
10 A. That's the main one I know of.
11 Q. Do you know of any others at all?
12 A. No.
13 Q. There was some discussion in one of these
14 about tank 502, do you know anything about
15 that? I was wondering if maybe they meant
16 500. It's a memo from Joe Butzer and Jay
17 Schellberg.
18 A. 502 I believe is treatment.
19 Q. Okay, that's fine. And I guess beyond your
20 experience in waste water, have you been in a
21 position to do rounds around the plant prior
22 to that?
23 A. Right.
24 Q. So I guess I would just like to know what your
25 knowledge of that is, how far that goes back,

- 1 the tank 500 problem.
- 2 A. I couldn't give you dates. I understood the
3 problem a lot clearer when I went to the waste
4 water plant trying to control the coker pond
5 levels and that kind of thing, that all plays
6 in to what's happening there. I can't recall
7 specifically someone coming and saying
8 anything or me tripping across the problem and
9 I made that tie in earlier years.
- 10 Q. How often in earlier years were you dealing
11 with it?
- 12 A. As a unit supervisor in waste water?
- 13 Q. Uh-huh.
- 14 A. Whenever we had coker pond high inventory
15 concerns that becomes a concern because that
16 was a limiter on how much water we can bring
17 up from the coker ponds.
- 18 Q. How often were you dealing with that?
- 19 A. I don't know. It's hard to say.
- 20 Q. It's variable?
- 21 A. That's a good way to say it I guess. When
22 it's a problem it's a big problem and you
23 focus a lot of attention. If it's not a
24 problem you have other problems.
- 25 Q. So were there times when you might deal with

- 1 it daily and then it be a month? I mean, I'm
2 just trying to get kind of an understanding.
3 And then you might go for a while, a period of
4 time and not have any issues with it?
- 5 A. Yeah. Again, I would go back and look at
6 coker pond reports, and when we have high
7 inventory problems there's a greater risk.
- 8 Q. That could go on for days, though, couldn't
9 it?
- 10 A. Right.
- 11 Q. And as a supervisor how were you dealing with
12 discovering that problem other than -- I mean,
13 you knew that you had high levels in the coker
14 pond, and was there any other thing that you
15 did in your regular routine?
- 16 A. No. That was the operator, that's part of
17 what they should be doing.
- 18 Q. Okay. What was their charge about that then?
19 What were they supposed to do?
- 20 A. My understanding was whenever they would make
21 a move on flow rates coming up to the coker
22 ponds, on their way back up the hill they
23 would look and see if that was impacting that
24 tank 500 area to see if they were trying to
25 send too much up. The other factors that came

1 into that are coker operators.

2 Q. So you were just referring to the waste water
3 operators when you said that, not the coker
4 operators?

5 A. Yeah. That was not my concern. But they also
6 impacted on the situation by what they were
7 putting into that sewer area. They're the
8 ones that are on the scene there on a more
9 regular basis than the waste water operator.
10 The waste water operator would go down and
11 perhaps increase the flow rate if he was in an
12 inventory concern down at the coker pond.
13 Generally on the way back up to the waste
14 water plant they would check the tank 500 area
15 and make sure that the sewer was containing
16 whatever they increased. Either they would do
17 it themselves or they would call coker
18 operators and ask them to check it.

19 Now, the coker operators were also
20 contributors because they have water that
21 pumps into that area that they control, and
22 they're not out driving around in the truck
23 all over the plant, they're on foot in the
24 area. They may alert us if something in their
25 process changed.

1 Q. So you didn't do it on any kind of interval,
2 you would do it kind of immediately after the
3 pumps would be turned up?

4 A. I think the operators would drive by as part
5 of their rounds and check it whenever they
6 were in the area, but they would make a
7 special point if they adjusted the flow rate.

8 Q. Was there ever a suggestion made that there
9 might be an alarm installed there for that
10 issue?

11 A. There might have been. I'm not aware of a
12 suggestion. Even if there was a suggestion I
13 don't know what we would do, I don't know what
14 kind of alarm you would put on it.

15 Q. In terms of that issue, going over to the --
16 that it would go from the oily water to the
17 non-oily water, and there's subsequent
18 problems with oil being observed on B5. I
19 have logs where there would be issues with
20 manholes overflowing on, for example, the 20th
21 of March of '97. The number on this is 1153.
22 There would be, on March 24 of '97, again, it
23 would be overflowing by tank 500, and that's
24 1152. Then in some of these sequences there
25 would be a note there would be a sheen on B5,

1 and then there would be discussions later
2 about B5 overflowing. Did you make that
3 connection? Did you ever consider what the
4 implications were about that and where your
5 responsibilities came in there, Rick?

6 A. I never made a strong connection between the
7 tank 500 overflowing and oil sheen on B5. I
8 would have been sensitive, I think, to that,
9 too, because it would have been difficult -- I
10 have a hard time understanding how that would
11 happen. The water we're pumping from the
12 coker pond does not take suction from the
13 surface, it comes off the bottom of the pond.
14 You have a big holding area there, and if you
15 have free oil it's going to want to collect on
16 the surface and be a sheen on the coker pond.
17 You're pumping water up from the coker ponds,
18 and if you're pumping at a rate that it
19 overflows and it overflowed into the clean
20 water, the operators respond, whenever they
21 know that's happening, to divert the clean
22 water into the plant. Granted, there might be
23 a little bit of water that flows through
24 there, but I don't see why that water should
25 be real rich in oil.

1 MR. KRIENS: Is there oil that goes
2 into the oily water sewer in that area from
3 other process areas?

4 THE WITNESS: Mostly the coker.
5 Again, the pump suction is going to be below
6 the surface.

7 BY MS. HAYES:

8 Q. We do have logs, like on May 3 and 4, '96, and
9 there's no number on this one -- oh, I think
10 it's 716, it's faint though. And then on May
11 4 and 5, '96, number 363. It's noted oily
12 water on the storm water basin. That's coming
13 from someplace.

14 A. Right. I don't know that I would make the --
15 in my list of priorities the first thing I
16 would look for wouldn't have been the coker
17 pond.

18 Q. Where would you look?

19 A. Try and back into the boiler house and see if
20 there was some kind of leak there that got
21 into it, a rich oil stream, maybe fuel oil,
22 lube oil of some sort or something like that.
23 It just wouldn't be the first place I would
24 look.

25 Q. Who is the author of that log (indicating)?

1 A. Mark Stevens was inside and Todd Aalto was
2 outside.

3 Q. I was going to ask him about that when we talk
4 to him, about what pond that was from. Okay.

5 I guess we're thinking there's a
6 possibility there could be a connection
7 between that overflow, and I understand you're
8 saying that when they find it they divert it
9 back to the process, but I think the issue
10 could be that sometimes there could be a fair
11 amount of time that could go by prior to them
12 finding it. When we've talked about this
13 before, in fact I think we talked about it
14 with you when we were out here, somebody
15 mentioned that the rounds could be as far
16 apart as every four hours. It was regarding
17 that issue that we talked about that.

18 A. I would think the operator rounds with waste
19 water treatment plant operators could be as
20 far as four hours. I believe the coker
21 operators would be more like two hours.

22 Q. Okay. On this same issue, this is a memo that
23 we've discussed before, and the number is
24 2977, from Butzer and Schellberg, and there's
25 a suggestion here about getting skimmers and

1 boom for the north pond so that the operators
2 can react quickly, the operators would be the
3 best for a quick reaction on that. Do you
4 know what this is about? It appears to me
5 like you're having a problem on that north
6 pond, can you speak to that?

7 A. The north pond we did have a problem one time.

8 Q. Just once?

9 A. Well, that I'm aware of while I was down
10 there. And Heather was around at that time.
11 We did have -- we did get some oil down there,
12 and it looked like gas oil. We responded to
13 that.

14 BY MR. KRIENS:

15 Q. When you mention the gas, is that from those
16 units? I remember reading a memorandum about
17 that one incident somewhere, I think it was
18 from the 16E5.

19 A. I don't recall.

20 Q. It looks like there's a connection there from
21 those units, the clean water sewer.

22 A. 16E5 is a cooler box that has a bunch of pipes
23 in it, and you fill it with well water and you
24 transfer the heat from the process to the well
25 water, and then the well water would go down

1 the clean water sewer. If the pipes were to
2 rupture then you would get contamination.
3 That was the thought process, that it may have
4 been what happened there. I don't recall if
5 they ever found a leak in the tubes, I don't
6 remember that.

7 Q. I think there's the suck 1282 or -- just two
8 of them.

9 A. Yeah. They call them the 12 unit cool box and
10 the 16 unit cool box. Oil showed up down
11 there, and for part of the investigation into
12 what happened there I was asked if the
13 operators could do a better job of responding,
14 and the intent, you know, as it flows into the
15 north pond, on the very north end of it there
16 is a trough, and we did put a boom or a bar
17 across there to try and hold anything that
18 would come in rather than let it get out on
19 the big pond. If we were to get something in
20 there it's an easier clean up if we can catch
21 it in there. We did do that. It was just a
22 precautionary measure because we did have the
23 one incident.

24 Q. One incident of what?

25 A. Where we had this gas oil down there. I don't

1 recall the date.

2 Q. Do you remember what the year was?

3 A. I think it was pretty quick after I got down
4 there, so probably late '95, early '96. I'm
5 guessing.

6 Q. Okay. But in terms of -- how about, Rick,
7 what's your awareness of overflowing B5, how
8 many times were you aware of that happening?

9 A. When we were having containment issues it
10 started being discovered, and I want to say it
11 was early in the spring of this year. I was
12 surprised because it hadn't been a problem
13 before. I wasn't aware that this was
14 happening, if it was, and I was surprised when
15 I first heard about it. We were in it for
16 some containment issues trying to hold water
17 back from going to the river, so that was
18 understandable, but I wasn't -- I thought we
19 had been maintaining better control than that.
20 I was very surprised to find we were actually
21 overflowing these ponds. I had not had that
22 on my list of worries, it kind of showed up
23 out of the blue.

24 Q. All right. I have a memo, and was this
25 originally from Heather? Is that how that

1 works, it was from Heather and you sent it on,
2 forwarded it on?

3 A. To operators, that looks right.

4 MS. WIENS: Read the date.

5 THE WITNESS: It's a memo that I
6 forwarded on May 13, 1996 to the operators
7 that was originally to me from Heather. This
8 was spills to the west storm pond. The
9 document number is 2665.

10 BY MS. HAYES:

11 Q. Do you remember that event, Rick?

12 A. I don't recall this specific incident.

13 Q. Where was it contained, can you tell?

14 A. I'm not sure. The way it's written it would
15 make me believe it was contained in the west
16 storm pond.

17 Q. It was spilled from where?

18 A. The coker pond. This would have been a
19 transfer over to that sump. We had done that
20 several times to get us out of that tank 500
21 problem, we had transferred water and used the
22 pumping capacity and lines in the west storm
23 pond to get coker pond water back up to the
24 plant for treatment. In order to do that they
25 would isolate the area that those pumps took

1 suction from the west storm pond and then
2 pumped that, used that as the containment
3 area. We used one of Schlomka's pumps to pump
4 it into the containment area and we used the
5 pumps located at the west storm pond to pump
6 it up to the waste water plant. What happened
7 is if you don't have the balance right with
8 what Schlomka is putting in and what we're
9 taking out, you could overflow that
10 containment area and overflow it into the west
11 storm pond.

12 Q. When you say containment, you mean the sump
13 there?

14 A. Right. Exactly, the pump sumps.

15 Q. Do you recall that same kind of thing
16 happening in April, the weekend before we came
17 out? Do you remember when we talked about
18 that in your office, Rick?

19 A. I don't recall the conversation, but it
20 probably did.

21 BY MR. KRIENS:

22 Q. We had done an inspection because we had an
23 allegation that this occurred in the past, and
24 apparently it had. Then we looked at it and
25 the environmental department was not

1 particularly forthcoming about it when we were
2 there that day. Then that evening we actually
3 learned it had occurred a couple days prior to
4 our inspection. Then we brought it up. I
5 think at the time we did bring it up when we
6 were down there with you, and I'm not
7 questioning your voracity or anything on this
8 issue, but I think you mentioned yes, it had
9 occurred and that you dealt with it in
10 whatever fashion you normally do.

11 A. I think that is restated on the thing I just
12 read from Heather. Once it goes over there,
13 once we contaminate coker pond water in the
14 west storm pond we commit ourselves to running
15 the west storm pond through the waste water
16 plant, not into B5.

17 Q. So you actually pump it all the way down to a
18 dry level?

19 A. Right, until we lose suction on the pumps.
20 Once it's that far down in the fall we try and
21 go in and clean the area out so the pumps will
22 work good for next spring.

23 BY MS. HAYES:

24 Q. Did you have any meetings about that event
25 before us coming out there, Rick, about the

1 event at the west storm pond, that overflow?

2 A. Any meetings?

3 Q. Yeah. Did you talk about it before us coming
4 out?

5 A. When we knew that we overflowed it we make a
6 commitment then until we pump that down it has
7 to go through the plant. We would have that
8 kind of discussion. Is that what you're
9 talking about?

10 Q. Well, did you discuss how you were going to
11 discuss it with us?

12 A. I don't recall that.

13 MS. HAYES: That's all I have.

14 BY MR. KRIENS:

15 Q. When she mentioned that, you would be
16 discussing it internally with the operators
17 how to handle it?

18 A. Right.

19 Q. To take care of it, is that what you mean?

20 A. Just like Heather's note said, at that point
21 we're committed to run the west storm pond. I
22 wouldn't want any operators bypassing the
23 plant and putting it directly into B5 at that
24 point.

25 BY MS. HAYES:

- 1 Q. So can we assume that from the time that
2 happened on the weekend until we were there
3 midweek -- I mean, I know you don't know this
4 for sure, but based on your normal protocol
5 would you have pumped that pond, dried that
6 pond out from the weekend before and then when
7 we came the pond was already back up to a
8 regular operating level?
- 9 A. I would say that would be pretty unlikely. I
10 don't recall what the pond levels were.
- 11 Q. You were the regular operator when we came out
12 there. I mean it looked like it was pretty
13 full to me. I would assume that was pretty
14 regular because it's a storm pond, right?
- 15 A. Right. Do you recall the time of year?
- 16 Q. It was April.
- 17 A. I would think there was a lot of water in
18 there in April. I would be very surprised if
19 we pumped that down and refilled it that
20 quickly.
- 21 MS. HAYES: Thank you.
- 22 BY MR. KRIENS:
- 23 Q. You mentioned you pumped that dry at some
24 point in the year?
- 25 A. We tried to pump it dry in the fall because

1 the pumps, we like to remove them for the
2 winter so we don't freeze and damage them.

3 Q. Do you take any sludges or materials, junk off
4 the bottom of the pond?

5 A. It goes to hazmat. I don't know how they take
6 care of it.

7 Q. So hazmat handles that part of it?

8 A. Well, I shouldn't say that. It goes to our
9 maintenance department and they make the call
10 whether it's hazmat or if they bulldoze it out
11 or whatever. I don't know the answer to that.

12 Q. So the maintenance department or others would
13 take care of the disposal of any solids in
14 there?

15 A. Right.

16 Q. Rick, are you aware of the use of the hydrant
17 system to flush the waste water via the storm
18 ponds, north and south storm ponds, to land
19 areas, spraying those on land?

20 A. I recall discussions about the matter. There
21 would seem to be a divergence of opinion on
22 that.

23 Q. What types of discussions?

24 A. It seems to me Ruth and Heather had some
25 differences of opinion over whether that was a

1 good method to control water or not.

2 Q. We talked to Ruth Estes about that and she
3 mentioned that, that they did have a meeting.
4 Were you involved or aware of any meetings to
5 discuss that issue?

6 A. No. The shift supervisors help the operators
7 and vice-versa around the clock, and Ruth was
8 in a shift supervisor role. Ruth also had
9 experience in the waste water treatment plant,
10 she had worked down there as an operator, and
11 perhaps her background gave her some
12 additional credibility in the matter, maybe
13 just in her opinion or maybe in other's
14 opinions. Ruth liked to be involved with what
15 was going on at the waste water plant because
16 she had a lot of knowledge in that area. I
17 don't know where I was going with that, but
18 Ruth -- and then Heather was in an engineering
19 role, and when they have a difference of
20 opinion it could be a pretty impressive clash
21 of opinions.

22 Q. I get that impression. My understanding is
23 the shift supervisors, or shifties, take care
24 of problems of that nature, and correct me if
25 I'm wrong, on weekends?

1 A. Well, yeah, and night shift, too. There is
2 always a shift supervisor here in the refinery
3 on shift, and the operators for the most part
4 carry on a normal day-to-day business of
5 what's going on. If there's something unusual
6 happening they will get the shift supervisor
7 involved. They may be asked for guidance,
8 they may just be using them as a sounding
9 board, they may be asking them what should I
10 do. It's a pretty wide gamut that happens
11 there.

12 Q. Do you know who would have been in the
13 position or who did make decisions to
14 discharge that water?

15 A. I do not. A shift supervisor could make that
16 decision, and if I, in a shift supervisor
17 role, went to an operator and asked them to do
18 something and it was not putting someone -- if
19 the environment, safety or equipment concerns
20 were not issues, you would expect the operator
21 to do what the shift supervisor asks. That's
22 the ranking guy, he or she is.

23 Q. You mentioned earlier in the spring of this
24 year, 1997, that there was an inventory
25 problem in the ponds. Could you explain the

1 nature of that inventory problem?

2 A. I think we were -- we had a series of
3 problems. They tend to run together in my
4 mind. We had a lot of issues in the operation
5 of the plant due to a lot of oil and the
6 centrifuging was being a problem through
7 December and January. It seems to me we had a
8 phenol concern that hit us in that time frame
9 also. And then we also had ammonia, we were
10 very worried about ammonia for a period of
11 time.

12 Q. How long of a period of time are we talking
13 about with the ammonia?

14 A. The way the permit was constructed you get
15 monthly averages. Those are what I recall
16 being crowded and very concerned about how we
17 were going to turn those around.

18 Q. You mean stay in compliance?

19 A. Get those numbers down where we're not going
20 to crowd what our limits are.

21 Q. Okay.

22 A. Part of our strategy to do that would be
23 containing water and bleeding it off over a
24 longer period of time, as long as we had
25 capacity.

- 1 Q. When you talk about containing water, that's
2 the practice of stacking, backing up water to
3 B5?
- 4 A. Right. Raising levels on B5, south fire pond.
- 5 Q. Okay. It's been discussed before, and people
6 have said the reason for those discharges on
7 the land via the hydrants were because of this
8 inventory problem, and my review of our
9 documents we received show the waste water
10 plant did stack or back up water quite often
11 it appears.
- 12 A. You bet. The operators monitor S7 real
13 religiously, and that tells them what the
14 plant performance is. When they start
15 crowding any limit parameters on B7 they begin
16 to stack water until we understand what's
17 going on and how bad it's going to impact us.
- 18 Q. Would this have been done in February, too,
19 stacking water or backing it up?
- 20 A. Yeah. Is that when we got into the ammonia
21 issue?
- 22 Q. Well, the ammonia issue looks like it began in
23 about mid 1996, when the ammonia level started
24 to increase. I noticed in February it was the
25 highest of this whole period up to May or so

1 when the problem appears to have been resolved
2 with the sour water stripper changes. In
3 February it had the highest flows, so in
4 February was this stacking also a practice?

5 A. Sure.

6 Q. So is the motive operation then to stack it up
7 and subsequently to bleed it off into the
8 polishing ponds, which is where that would go,
9 at a certain rate which would not exceed the
10 limits then?

11 A. Right.

12 Q. In February there's three days in a row, the
13 25, 26, and 27, in the safety logs that show
14 water was discharged from hydrants, about a
15 million gallons, a little over a million
16 gallons total was sprayed on land. February
17 happens to have been a month where the limit
18 was right at the -- the ammonia discharge
19 loading was right at the monthly average
20 permit limit. As you mentioned, this forced a
21 lot of backing up and stacking during that
22 month, and my question is do you know about
23 those hydrant releases, discharges, and if so
24 what would have been the purpose of those?

25 A. I don't know about them. It could have been a

- 1 shift supervisor's response to help the
2 inventory problem. I'm guessing.
- 3 Q. And the inventory would have been a result of
4 the stacking, backing up water?
- 5 A. Yes.
- 6 Q. And typically that would have been -- should
7 have been -- would that water normally have
8 been required to go back through the system to
9 the polishing ponds?
- 10 A. I don't understand.
- 11 Q. I guess I'm asking is the normal procedure if
12 that water was stacked, and I guess we kind of
13 established that, normally you would want to
14 go through the polishing ponds and discharge
15 that?
- 16 A. Right, discharge water. It seems to me I
17 recall conversation regarding how much water
18 should be flushed when we flush water.
- 19 Q. Could you explain that?
- 20 A. When that was being discussed I believe there
21 were samples taken of the water that was being
22 discharged to make sure that we weren't
23 violating anything that was being discharge to
24 the ground.
- 25 Q. That would have been after a reportable

- 1 quantity was --
- 2 A. Right. It was looking for reportable
3 quantities. I recall that conversation. I
4 don't know if that had to do with this
5 specific time or not.
- 6 Q. I understand. Do you know anything about a
7 hydrant release in November? This would have
8 been November 3 and 4 of 1996.
- 9 A. I don't know. I don't know what we're talking
10 about at that point. I can't pull that out of
11 thin air.
- 12 Q. Let me put it in perspective with some
13 operator logs at that time. There was a memo
14 from Heather Faragher October 24 which
15 notifies a lot of people that a Bioassay is
16 going to occur November 4. Samples would be
17 collected at this time period following, and
18 starting with November 2, it was some special
19 analytical test sent to the lab for the S7,
20 and the flow was cut from S7 to less than
21 three units. Let me stop for a minute. What
22 does one unit mean on flow?
- 23 A. I don't know how it translates, but there's a
24 strip chart that the operators use, and that's
25 how they monitor what the flow rates are. I

1 don't know what the conversion factor is. You
2 get some operators that go ahead and do the
3 conversion and tell you how many millions of
4 gallons of water it is, others may just give
5 you that unit number.

6 Q. Do you have any idea approximately what it
7 means?

8 A. I don't, not off the top of my head.

9 Q. Anyway, this memo talks about cutting flow to
10 less than three units November 2. Then on
11 November 3 there's additional testing, special
12 testing, shows ammonia out of the S7 at 110
13 milligrams per liter or part per million.
14 Then a copy of Heather's letter they state --
15 meaning this memorandum concerning the
16 Bioassay is dropped off to the shifties. Then
17 another discussion November 3, memo from Dave
18 Gardner concerning the special results and
19 limiting the flow to the river to two units.
20 I presume when they're talking about limiting
21 the flow the only thing they can do is back it
22 up to B5?

23 A. (Nods head.)

24 Q. Then November 3 an operating log states safety
25 to open three hydrants of west tank farm on

1 ground to help get rid of water. This
2 occurred from 1900 hours, or 7:00 p.m, on
3 November 3 to 7:00 a.m. on November 4. Then
4 there is a safety log on November 4 which
5 states water is flowing in west tank farm west
6 side of I Street. So that's where I'm coming
7 from here.

8 A. Does it say where they were flowing it to? It
9 sounds to me like they would have been flowing
10 it to the west storm pond.

11 Q. It says in west tank farm. A previous
12 operating log states three hydrants in west
13 tank farm on ground. We've asked others, and
14 including Ruth, which verifies it was -- I
15 believe Ruth anyway, stated that it was done
16 on the ground.

17 A. Okay. I don't know that part of it.

18 Q. We have some other information that's
19 confidential at this point that we have
20 obtained and learned that it was discharged on
21 the ground that night. Do you know anything
22 about that?

23 A. I would have read it in the log. My thought
24 would have been it would have been going to
25 the pond. However, if I was going to do some

1 more thorough research on it I would like to
2 see what the pond levels were on that west
3 storm pond.

4 Q. As I mentioned, we have independent
5 confirmation that it did go onto the land.

6 A. It could well be.

7 MS. WIENS: It's hard for him to
8 comment on your independent information.

9 MR. KRIENS: Yeah. I'm not asking
10 for that, I'm just responding to --

11 THE WITNESS: If I would have read
12 that, a note in our log saying water was being
13 flowed to the west tank farm I would have made
14 the -- my conclusion would have been we would
15 have been flowing it into the storm pond.

16 BY MR. KRIENS:

17 Q. I understand that because I've seen it in the
18 logs, it says west tank farm lagoon, west tank
19 farm pond, and some of those on ground to west
20 tank farm, which is different than the pond or
21 lagoon. I know there's a terminology
22 difference in usage between staff there.

23 A. I agree.

24 Q. To finish with that, do you know anything
25 about that particular issue?

1 A. It doesn't ring a bell to me.

2 Q. Okay. Thank you.

3 MS. HAYES: I have a follow-up while
4 you're looking. What are the dates on the
5 March events -- or the February?

6 MR. KRIENS: The 25th, 26th and
7 27th.

8 BY MS. HAYES:

9 Q. I guess this goes back to -- now I'm talking
10 about March and I guess I was thinking this
11 was February, but you have an overflow from B5
12 in March of '97, and this goes back to the
13 discussion that we were talking about before.

14 I don't have a number on this, but the
15 date on this log is March 25, '97. The log
16 states safety said B5 running over north end.
17 Increased flow to river to nine units. Why
18 would you be operating where you're
19 overflowing your pond before -- I mean, why
20 the reaction to that? Why not have your units
21 cross to the polishing ponds so that -- it
22 just feels like this is sort of a reaction to
23 your pond overflow and you're made aware you
24 are having some problems with B5 overflowing.

25 A. Right.

1 Q. Why not be having those flows to the polishing
2 pond so that this wouldn't happen? Why not
3 this in a reverse order I guess is what I'm
4 trying to say.

5 MS. WIENS: Is this something you
6 know about?

7 BY MS. HAYES:

8 Q. I guess it goes back to him saying that he
9 knows the B5 was overflowing in the spring,
10 and it goes to the idea that we're talking
11 about stacking water and the idea of how many
12 units, you know, how many units can you be
13 putting across to the polishing pond. I'm
14 just wondering why -- what's the problem that
15 you don't have enough freeboard in the north
16 pond that you're going over? Why not just be
17 putting more across the street to the
18 polishing pond?

19 A. It gets back to what we have talked about
20 before, if there's concern about what's going
21 to the river we would stack water.

22 Q. Okay.

23 A. And you understand that S7 is how that's
24 adjusted to pond? You're running -- your
25 plant, what's coming through the plant hits S7

1 before the pond, and you're -- if you're
2 pumping at a higher capacity than what the
3 plant is producing you're going to remove
4 water from B5. So when you know that B5 is
5 overflowing you need to take more water out of
6 there. That's why you increase that flow
7 rate.

8 BY MR. KRIENS:

9 Q. Do you know what the maximum flow rate from S7
10 is?

11 A. I do not. I know I should, but I don't.

12 Q. Apparently it's at least nine units, whatever
13 that is?

14 A. Right.

15 Q. Do you know, Rick, of any meeting held between
16 anybody at Koch concerning an alternative to
17 the situation where the ammonia limit was in
18 jeopardy of being exceeded, and apparently it
19 was the daily maximum limit, and they decided
20 to discharge to land instead of to the river?

21 A. I don't recall a meeting for that purpose.
22 Brian and Heather and I met many times
23 concerning our ammonia issue when we were
24 having monthly concerns. We were searching
25 for other options. I don't recall a meeting

1 that was constructed exactly as you describe
2 there.

3 Q. You're talking about Brian Roos?

4 A. Right. We would also have the operators
5 involved in those meetings.

6 BY MS. HAYES:

7 Q. You said you were discussing other options.
8 What do you mean?

9 A. Is there something we're missing in this.
10 We've got all these ponds full of water that's
11 higher than desired ammonia content, what can
12 we do about it. The last thing -- we would do
13 anything we could to avoid putting water that
14 was above the limits in ammonia into the
15 river.

16 Q. What was your understanding of the
17 consequences of exceeding the limits?

18 A. Not acceptable.

19 Q. Not acceptable why?

20 A. Because it's a limit we're -- I mean, it's an
21 operator parameter that we would not violate.

22 Q. Are you aware that could flag a violation and
23 penalties could be --

24 A. Yeah, but to me the real issue is that's the
25 limit and you don't go over the limit.

1 BY MR. BERGER:

2 Q. A question about the boiler house. And this
3 goes back to the situation with the overflow
4 of the oily water sewer to the non-oily water
5 sewer. We have gotten information through
6 interviews that one way for this to have been
7 detected was in the boiler house, that there
8 was an actual odor or smell that became
9 apparent in the boiler house.

10 A. I recall that.

11 Q. Correct me if I'm wrong or explain this to me,
12 but the non-oily water sewer flows through or
13 there's an open part of the non-oily water
14 sewer in the boiler house and that the fumes
15 could be smelled from the water? Could you
16 explain that?

17 A. My recollection is that discussion came up as
18 a result of the investigation for all the oil
19 accumulated on B5, that incident, whatever
20 those dates were. We had oil out on B5, the
21 gas oil. The boiler house operator said when
22 we have oil in that sewer what happens is the
23 boiler house, the water they're putting into
24 the clean water sewer is a warmer temperature,
25 so if there were any hydrocarbons in the water

1 they would volatize. And it was being
2 suggested that perhaps we could put some type
3 of part per million hydrocarbon detector in
4 that sewer and let that at least trigger
5 somebody to look at it. That was discussed, I
6 recall that discussion.

7 Q. Okay.

8 A. To my recollection where it ended we could not
9 find that type of device that would be
10 reliable in that service. That's where it
11 ended.

12 Q. We've been told that the boiler house
13 operators would then call when they had the
14 smell start, they would then call the
15 appropriate people, environmental or whoever?

16 A. When I was down there there was some cross
17 training going on between the two units, so we
18 were trying to melt this barrier between
19 boiler house and waste water plant so they
20 knew to scratch each other's back on that.

21 Q. Can you talk to the timing involved there?

22 A. Not really, not off the top of my head. I
23 don't know if that was on that water weekly
24 list or not.

25 Q. It's too specific to the operation of the

1 boiler house and you don't have the knowledge
2 there?

3 A. Again, I think it's -- again, trying to make
4 the time, I think it was back to when we -- a
5 result of the investigation into that gas oil
6 incident on B5. That would be the only clue I
7 would have as to the timing of the discussion.

8 Q. Well, we have it more than that. It was the
9 general situation of this overflow, that's one
10 way it was detected.

11 A. I'm not aware of it that way. My
12 understanding was in order to pick up
13 hydrocarbons you need a pretty rich
14 hydrocarbon source, and I wouldn't see the
15 coker pond water as having that high of a
16 hydrocarbon source. To me that doesn't seem
17 as good of a suggestion as if you're dumping
18 gas oil down the stream. It seems to me
19 that's what triggered the discussions.

20 Q. Well, you have to remember, you know, from
21 what we're hearing is the coker ponds were
22 kind of used as the sewer for Koch Refining,
23 everything went into the coker ponds. The
24 Eighth Street sump would overflow, a lot of
25 dry weather flows went into the coker ponds,

1 and that's one of our concerns. You said that
2 earlier, that you wouldn't think the coker
3 ponds would be a source of oily water, and I
4 don't agree with that at all because of how
5 the coker ponds -- it's been documented to us
6 a number of times how the coker ponds were
7 used to collect a lot of oil and dry weather
8 flows over the years.

9 A. When you say used, you're implying to me that
10 was a planned step that someone made to put
11 water there.

12 Q. Yes.

13 A. I would disagree with that very strongly.

14 Q. Sour water, wasn't that a plan?

15 A. That was. That was the best option we had at
16 the time. But that's the only time I'm aware
17 of that we trucked water to that point,
18 otherwise it was an overflow that would have
19 been the result of a mechanical failure.

20 Q. Well, again, I don't agree with that.

21 MS. WIENS: You can go ahead and ask
22 him questions, but you disagreeing may be best
23 saved for another day. Why don't you just ask
24 him questions and we can talk later about
25 disagreeing.

1 THE WITNESS: Like I said, right now
2 that's the only time I'm aware we trucked
3 water specifically to the coker pond. Other
4 times, yeah. When Eighth Street overflows
5 that would end up in the coker pond, Seventh
6 Street would overflow, but that would be
7 because the sump isn't working right. It
8 isn't someone goes down there and overflows it
9 to overflow it. You have other information I
10 don't know about, but I -- if I was still the
11 supervisor there and I had an operator doing
12 that I would be wanting to have a real serious
13 discussion with the operator and find out what
14 is he thinking about, what is he doing.

15 MR. BERGER: That's all
16 (Whereupon, the interview concluded at
17 11:25 a.m.)

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STATE OF MINNESOTA)
COUNTY OF HENNEPIN) Ss:

BE IT KNOWN, that I, MILO BALLINGRUD, Court Reporter, a Notary Public in and for the County of Hennepin, State of Minnesota, certify that the foregoing is a true record of the interview of RICK LEGVOLD, and reduced to writing in accordance with my stenographic notes made at said time and place.

I further certify that I am not a relative or employee or attorney or counsel of any of the parties or a relative or employee of such attorney or counsel;

That I am not financially interested in the action and have no contract with the parties, attorneys, or persons with an interest in the action that affects or has a substantial tendency to affect my impartiality;

IN WITNESS WHEREOF, I have hereunto set my hand
on this 11th day of November, 1997.

MILO BALLINGRUD,
Notary Public, Hennepin County, Minnesota
My Commission Expires January 31, 2000.