

ANTONIA TOLBERT, et al.

v.

MONSANTO COMPANY, et al.

CRAIG BRANCHFIELD

April 25, 2003

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1 IN THE UNITED STATES DISTRICT COURT
2 NORTHERN DISTRICT OF ALABAMA
3 SOUTHERN DIVISION

4 ANTONIA TOLBERT,)
5 et al.,)
6)

7 Plaintiffs,) Civil Action No:
8) CV-01-C-1407-S

9 vs.)

10)
11 MONSANTO COMPANY,)
12 PHARMACIA, INC., and)
13 SOLUTIA, INC.,)
14 Defendants.)

15
16 -----
17 DEPOSITION OF CRAIG BRANCHFIELD
18 -----

19
20 S T I P U L A T I O N S
21

22 IT IS STIPULATED AND AGREED by and
23 between the parties through their respective

Page 2

1 counsel that the deposition of CRAIG
2 BRANCHFIELD, a witness in the above-entitled
3 cause, may be taken before Laura E. Durden,
4 Notary Public in and for Alabama State at
5 Large, at the offices of Lightfoot, Franklin
6 & White, L.L.C., The Clark Building, 400
7 20th Street North, Birmingham, Alabama, on
8 the 25th day of April, 2003, commencing at
9 10:00 a.m., pursuant to the Alabama Rules of
10 Civil Procedure.

11 IT IS FURTHER STIPULATED AND AGREED
12 that it shall not be necessary for any
13 objections to be made by counsel to any
14 questions except as to form or leading
15 questions, and that counsel for the parties
16 may make objections and assign grounds at
17 the time of trial or at the time said
18 deposition is offered in evidence or prior
19 thereto.

20 It is further stipulated and agreed by
21 and between the parties hereto and the
22 witness that the signature of the witness to
23 this deposition is hereby waived.

Page 4

EXAMINATION

2 Examination by Mr. Davis. 4

3
4 (No exhibits were marked and/or
5 admitted to this deposition.)
6

7 I, Laura E. Durden, acting as
8 commissioner, certify that on this date
9 there came before me at the offices of
10 Lightfoot, Franklin & White, L.L.C., The
11 Clark Building, 400 20th Street North,
12 Birmingham, Alabama, on April 25, 2003,
13 beginning at or about 10:00 a.m., CRAIG
14 BRANCHFIELD, a witness in the above cause,
15 for oral examination, whereupon the
16 following procedures were had:
17

18 CRAIG BRANCHFIELD
19 having first been duly sworn,
testified as follows:

EXAMINATION BY MR. DAVIS:

21 Q. State your name for the record,
22 please.

23 A. Craig Randall Branchfield.

Page 3

1 APPEARANCES:

2
3 For the Plaintiffs:

4
5 MR. D. FRANK DAVIS, ESQUIRE
6 Davis & Norris, L.L.P.
7 One Highland Place
8 2151 Highland Avenue
9 Suite 100
10 Birmingham, Alabama 35205

11
12 For the Defendants:

13
14 MR. KEVIN CLARK, ESQUIRE
15 Lightfoot, Franklin & White
16 400 20th Street North
17 The Clark Building
18 Birmingham, Alabama 35203
19
20
21
22
23

Page 5

1 Q. What state and county do you reside
2 in?

3 A. I live in Alabama, in Talladega
4 County.

5 Q. By whom are you currently employed?

6 A. Solutia.

7 Q. And what is your position at Solutia?

8 A. My position is manager over remedial
9 projects.

10 Q. How long have you been employed by
11 Solutia?

12 A. I've been employed by Solutia for four
13 and a half years now.

14 Q. Who was your employer before that?

15 A. A company called Morrison Knudsen.

16 Q. So you never actually worked for
17 Monsanto before starting with Solutia?

18 A. That's correct. I was hired by
19 Solutia.

20 Q. When did you begin working for
21 Solutia?

22 A. My initial position with Solutia was
23 as a manager of remedial projects, working

2 (Pages 2 to 5)

Page 6

1 out of our corporate offices in St. Louis.
 2 Q. When was the first time you had any
 3 responsibilities with regard to Anniston?
 4 A. The first time I had any
 5 responsibilities would have been January of
 6 2000. That's when I assumed responsibility
 7 for my current role as project manager for
 8 the Anniston remediation.
 9 Q. When was the first time you visited
 10 Anniston?
 11 A. The first time I visited Anniston
 12 would have been in probably September of
 13 1999.
 14 Q. What was the purpose of that?
 15 A. The purpose was to come down, see the
 16 city, and meet the -- I had been offered the
 17 job as project manager. Basically, was to
 18 learn a little bit about it and help me
 19 decide whether I wanted to accept the
 20 position or not.
 21 Q. When was it you said you actually
 22 accepted the position?
 23 A. Actually accepted the position by

Page 7

1 October of 1999.
 2 Q. You told me what your title was at
 3 that time, and we had a little break here
 4 for a second. And now I've forgotten what
 5 it was.
 6 A. Manager of remedial projects.
 7 Q. For Anniston?
 8 A. Since I started working for Solutia,
 9 that's been my title both up in St. Louis
 10 and since I assumed responsibilities here in
 11 Anniston.
 12 Q. Once you assumed responsibilities in
 13 October of 1999 for Anniston, did you also
 14 have any responsibilities outside of
 15 Anniston, or were you solely working for
 16 Anniston?
 17 A. At first, I wasn't fully responsible
 18 for Anniston until January of 2000. Between
 19 October and January was a transition period
 20 between myself and my predecessor, Alan
 21 Faust.
 22 The second part of your
 23 question was, after I assumed responsibility

Page 8

1 for Anniston, I did maintain responsibility
 2 for some other projects that I had been
 3 working on for a period of time. But I have
 4 since been relieved of those
 5 responsibilities.
 6 Q. What other projects did you maintain
 7 responsibility over for a period of time?
 8 A. After I came to Anniston or after I
 9 assumed responsibilities for Anniston?
 10 Q. Yes.
 11 A. There was a superfund site in Maryland
 12 called the Spectron Galaxy site, which I
 13 maintained responsibility for about a year
 14 and a half after I came to Anniston. For a
 15 short period of time, I maintained
 16 responsibility for another project that we
 17 have outside of Texas called the Motco site.
 18 There was also -- had some
 19 responsibilities for some work that was
 20 going at our coining plant in St. Louis and
 21 some other miscellaneous recurrent superfund
 22 sites.
 23 There was about a six-month

Page 9

1 transition when I came down to Anniston,
 2 where I was turning many of those projects
 3 over to other managers.
 4 Q. At about what date were you working
 5 just on Anniston?
 6 A. Well, except for the Spectron Galaxy
 7 site, I turned over all my other projects by
 8 April or May of 2000. The Spectron Galaxy
 9 site, I kept responsibility for -- I can't
 10 remember the exact date. It would probably
 11 have been sometime in mid 2001 before I
 12 turned over responsibility for that project.
 13 Q. During the period of time you have
 14 been at Solutia, have you had any
 15 responsibilities over any PCB sites other
 16 than Anniston?
 17 A. I had responsibility over sites where
 18 PCB was typically a very small part of the
 19 remediation. There were other issues we
 20 were dealing with. There were no sites that
 21 were specifically PCB-related, like Anniston
 22 is.
 23 Q. Prior to the time you came to work for

3 (Pages 6 to 9)

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Page 10

1 Solutia, had you been involved in any
 2 remediation projects where the constituent,
 3 which was the principle constituent
 4 involved, was PCB?
 5 A. No.
 6 Q. You told us about coming down to
 7 Anniston in October of 1999.
 8 But on at least one occasion
 9 prior to the time you accepted the position,
 10 did you come just once before you accepted
 11 the position, or was it more than once?
 12 A. Just once, before I accepted the
 13 position.
 14 Q. How long were you down in Anniston on
 15 that first occasion?
 16 A. About a week.
 17 Q. What did you do during that time
 18 period?
 19 A. A variety of things. Obviously, part
 20 of the visit was to learn about the
 21 remediation that was going on in Anniston,
 22 meet the people that I would be working with
 23 and would be implementing much of the work

Page 12

1 Calhoun County, off of Highway 21.
 2 Q. How far from Snow Creek?
 3 A. I would estimate less than two miles
 4 from Snow Creek.
 5 Q. Prior to the time you came to Anniston
 6 that first time, had you reviewed any
 7 documents or information, historical
 8 information or current information, about
 9 the site?
 10 A. No.
 11 Q. Tell me what you were told about the
 12 site when you came down on that first trip.
 13 A. That first trip, I just really
 14 received a very broad overview of the work
 15 that was ongoing and a little bit of the
 16 history. I was obviously told about the
 17 history of PCBs in Anniston.
 18 Anniston was one of the plants
 19 Monsanto owned that manufactured PCBs, and
 20 that we manufactured those PCBs from -- I
 21 don't know the exact date -- late 1920s
 22 until 1971. That we were currently involved
 23 in a facility investigation to characterize

Page 11

1 we were trying to accomplish down in
 2 Anniston.
 3 There was also another part of
 4 my family accompanying me on that trip, and
 5 we were interested in learning about the
 6 area in general -- schools and so forth --
 7 to see if it was someplace we would like to
 8 come and live.
 9 Q. You indicated that you currently live
 10 in Talladega County.
 11 Did you move to Talladega
 12 County immediately after coming to Anniston?
 13 A. Yes.
 14 Q. Where in Talladega? I don't need to
 15 know the exact address. I don't like to put
 16 people's addresses on depositions. Some
 17 people do, but I don't.
 18 Where in Talladega?
 19 A. It's in the city of Oxford, which is
 20 just south of Anniston. It really sits
 21 almost right on the border of between
 22 Calhoun and Talladega counties.
 23 It's less than a mile south of

Page 13

1 the nature and extent of PCBs, both in our
 2 manufacturing facility in Anniston as well
 3 as in the ditches and downstream waterways,
 4 the creeks.
 5 I talked with some of our
 6 consultants about some of the details of
 7 those investigations -- what we had learned,
 8 what investigations we saw in our future,
 9 and the type of work we anticipated doing
 10 over the next several years while I was
 11 considering being involved with the project.
 12 I was also given what I would
 13 describe as a very general overview of the
 14 work we had completed prior to my coming
 15 down; specifically, the cap and cover
 16 systems we placed on our landfills, some of
 17 the ground water collection systems we had
 18 put in place on the plant site to monitor
 19 and collect ground water as well as some of
 20 the runoffs we had implemented on properties
 21 adjacent to our facility.
 22 It was really sort of just a
 23 broad overview of what we had done and what

4 (Pages 10 to 13)

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Page 14

1 we were doing and where we foresaw ourselves
2 going.

3 Q. What do you recall being told about
4 what had been done so far?

5 A. At that time most of what -- most of
6 the work that I had been briefed on -- and
7 it wasn't by any means a complete
8 description of everything that had been
9 done -- is there is lots that had been done,
10 and we didn't get into all of it.

11 The larger projects we had been
12 involved with at the time was the capping of
13 the landfills that Monsanto had used and the
14 investigations that had taken place around
15 the plant site, the actual collection of
16 samples and having those samples analyzed by
17 laboratories and what that data told us
18 about how PCBs were moving around in the
19 environment.

20 I was obviously told that there
21 was some ongoing litigation on the project.
22 But getting back to the remediation, I
23 learned a little bit about the ground water

Page 16

1 is upgrade of our facility from a surface
2 water standpoint. That rainwater would flow
3 across our plant site. It would flow across
4 our historical landfill, which, of course,
5 had been closed, and you would get bits of
6 erosion.

7 The PCBs particles tended to
8 like to bind to soil particles, sedimentary
9 material. That surface water would capture
10 those soil particles and wash them into
11 ditches and creeks and wash them downstream.

12 When there were flooding
13 events, when that water would go outside the
14 banks of the ditches or creeks, there was a
15 potential for PCBs to be deposited in those
16 flood plains.

17 This is how the site we were
18 investigating at the time had been defined,
19 was the flood plains of these creeks and
20 ditches as well as the waterways themselves.

21 Q. At the time you came down then, you
22 saw them investigating PCBs outside the
23 flood plains?

Page 15

1 collection systems we had on the site.
2 These discussions were very general.

3 It was just really a trip to
4 see what was going on. The more detail
5 turnover -- I guess would be a proper
6 term -- took place between those months
7 between October and January, when I took
8 over the work they were doing in Anniston.
9 That first visit was just a real broad
10 nature.

11 Q. Let's, then, take a different
12 approach.

13 Let's say at the time that you
14 took over, what were you told then about
15 what had been learned about how the PCBs
16 moved?

17 A. As far as how the PCBs moved, at that
18 point I had been told, and this pretty much
19 remains the case today, that the primary
20 means for PCBs to be transported away from
21 the facility was through surface water.

22 When it would rain, the rain
23 would, of course, flow down a mountain that

Page 17

1 A. When I came down, we had -- I have to
2 think about it. When I came down, it had
3 been just brought to our attention. I think
4 this was through the course of one of the
5 lawsuits that was ongoing at the time, and
6 it's still ongoing.

7 That some PCBs had been
8 detected in some properties outside the
9 flood plain. But at the time we didn't have
10 a very good sense for what those levels of
11 PCBs were or where they were, for that
12 matter.

13 That was not something that had
14 been completely developed at the time,
15 certainly not to the extent to which we've
16 developed that data today.

17 Q. When was it in 2000 that you moved
18 here permanently?

19 A. January of 2000.

20 Q. By January 2000, had Monsanto tested
21 the yards of any residents?

22 A. Some residential properties within the
23 flood plains of Snow Creek and Choccolocco

5 (Pages 14 to 17)

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Page 18

1 Creek, as well as residential properties
2 adjacent to our facility, we had tested,
3 yes.
4 Q. Do you remember in general what the
5 results of that testing was?
6 A. It really varied based on the
7 location. Theoretically, you would
8 anticipate the higher levels of PCBs to be
9 closer to the facility, and as you work your
10 ways down the waterways, the levels would
11 fall.
12 That's generally what we found;
13 particularly, on Choccolocco Creek. Once we
14 get to Snow Creek, it's a little more
15 spotty. It isn't a nice clear grading on
16 Snow Creek, but nevertheless, we still had
17 some of that data.
18 Q. Since then, do you have any idea of
19 the total soil samples you have done?
20 A. Total soil samples?
21 Q. Yeah.
22 A. If you want to include sediment
23 samples taken in the creek, the plant site,

Page 19

1 residential properties, commercial,
2 industrial, I would say in excess of
3 five-thousand. Probably much higher than
4 that, but at least five-thousand soil and
5 sediment samples within creeks themselves.
6 Q. I'm curious about the consistency and
7 predictability of those samples. You have
8 five-thousand of them.
9 If I picked out a residential
10 piece of property, say, within half a mile
11 of the plant, and said to you, if we sample
12 that piece of property, would we find PCBs
13 or not, and if we find them, what level, are
14 you now in a position to predict that?
15 A. There is a few that -- I'm trying to
16 think of a good way to answer that question.
17 The simple answer to your
18 question is no. It's very difficult to
19 predict; particularly, in the Anniston area.
20 In the Anniston area, you can go and sample
21 one property -- pick a location really.
22 This is typically within a half
23 mile radius of the plant, in the downgraded

Page 20

1 direction. Of course, upward is nothing but
2 a forest and a mountain.
3 In the downgraded area of the
4 plant, outside the flood plain, you can pick
5 one property and not detect PCBs, and you
6 can go to the next door property and find
7 fifty parts per million PCBs. And you go to
8 the property right next to that and find two
9 parts per million PCBs. There is no clear,
10 consistent pattern to the distribution of
11 PCBs on residential properties in the
12 western parts of Anniston.
13 As we work our way downstream,
14 down Snow Creek, and get to the Choccolocco
15 Creek, the pattern becomes very apparent.
16 You get a very nice correlation between the
17 location of PCBs -- I should say the
18 concentration of PCBs both with distance
19 downstream, Choccolocco Creek, as well as
20 distance away from the banks of Choccolocco
21 Creek.
22 And without exception, when it
23 comes to Choccolocco Creek, we don't find

Page 21

1 PCBs outside the flood plain. So detecting
2 PCBs outside the flood plain is really
3 unique in West Anniston. It's really not
4 what we found in Choccolocco Creek.
5 So the simple answer to your
6 question is, in West Anniston, no, I can't
7 predict for you. On Choccolocco Creek, I
8 think I could give you a very good feel.
9 Q. On Choccolocco, your prediction would
10 be based on an assumption that if it's in
11 the flood plain, there would be PCBs
12 probably there; if it wasn't, there probably
13 wouldn't be?
14 A. In certain areas of Choccolocco Creek,
15 when we completed our initial flood plain
16 investigation of Choccolocco Creek, which we
17 did I want to say in -- I want to say in
18 late 2001. I think it was probably October
19 or November of 2001 when we went in the
20 flood plain of Choccolocco Creek and
21 collected soil samples.
22 For the first five miles of the
23 creek, from Snow Creek down to a location in

6 (Pages 18 to 21)

Page 22

1 the vicinity of Coldwater Creek -- it's
2 about five miles distance -- we detected
3 PCBs pretty much through the width of the
4 flood plain.

5 Once we got down below
6 Coldwater Creek, from a point about five
7 miles downstream of Snow Creek to about 15
8 miles downstream of Snow Creek, the PCB
9 detections were pretty much, without
10 exception, limited to the banks of the
11 creek. And I will define the banks of the
12 creek as anywhere within 50 feet of the
13 water.

14 Once we got away from the banks
15 of the creek, there is one or two
16 exceptions. Generally speaking, we did not
17 detect PCBs outside the banks of the creek,
18 once we got below Coldwater Creek.

19 That's not something you would
20 find unusual. You would expect
21 theoretically, the way PCBs are transported,
22 that you find the higher levels PCBs in the
23 upstream areas and they would reduce as you

Page 24

1 PCBs are not there because of flood plain
2 deposition. They're there because something
3 physically put them there.

4 Q. Would your conclusion be that there
5 have been multiple ways that PCBs are spread
6 around Anniston?

7 A. I think "multiple" might exaggerate.
8 There's really only two primary ways that
9 PCBs move around.

10 One is through surface water
11 transport, in deposition and flood plains,
12 and the other is literally picking them up
13 and moving them or picking the soil or other
14 material that contains PCBs and moving it
15 and placing it there.

16 There is some transport -- it's
17 a very minor component. Typically, it's not
18 even statistic from a deposition view, but
19 there is some minor transport through the
20 air. On most PCB sites, you typically don't
21 see that as an issue. That's really the
22 case in Anniston.

23 Most of the deposition in

Page 23

1 go downstream, and you would find the higher
2 levels close to the bank of the creek, and
3 they would reduce as you move away from the
4 bank. We pretty much found what we
5 predicted we would find.

6 Q. In the same way that you found in
7 Anniston, PCBs that are fairly down in one
8 yard, and the next door neighbor, not nearly
9 so high, would you expect it if you did
10 multiple samples within a particular
11 person's yard that you would also find
12 significant variations in the levels of PCB?

13 A. I think in Anniston, yes. There have
14 been a number of properties that we have
15 sampled, or the EPA sampled, where we
16 detected fifty parts per million in the
17 front yard, and we have not detected
18 anything in the backyard. We have theories
19 about why that might be the case. We have
20 some data to suggest why that's occurring.

21 Yeah, within one particular property,
22 you can find variation within that property
23 by itself, which suggests to us that those

Page 25

1 Anniston is through surface water transport
2 or physical movement of the PCB-containing
3 material.

4 Q. But you agree that some PCBs move by
5 attaching themselves to soil and blowing in
6 the wind, so to speak?

7 A. Absolutely. And we have data showing
8 there are low levels of PCBs in the air in
9 our facility.

10 Q. And some PCBs get moved around by
11 getting on the bottom of somebody's feet and
12 transporting around?

13 A. Sure, that's possible.

14 Q. Truck tires moving around or car tires
15 moving around, right?

16 A. That's certainly possible. I wouldn't
17 suggest that's the primary way PCBs moved
18 around Anniston, but it's certainly
19 possible.

20 Q. When you are seeing PCBs in the
21 Anniston area above the flood plains,
22 outside the area where it flooded, do you
23 have a view as to what the primary means

7 (Pages 22 to 25)

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Page 26

1 were for which it got there?
 2 A. For outside the flood plain?
 3 Q. Right.
 4 A. Yeah. On many of the properties we
 5 sample outside the flood plain, there seems
 6 to be a correlation between the presence of
 7 PCBs and the presence of old waste material
 8 from foundries that used to operate in
 9 Anniston many years ago.

10 I should also mention, just to
 11 be clear, that we also see that inside the
 12 flood plain, where we will sample a yard in
 13 the flood plain and see some foundry
 14 material in the yard and also the presence
 15 of PCBs.

16 I don't think that would be --
 17 that's unexpected because, typically, you
 18 would use a foundry fill material or any
 19 fill material of that nature to fill in a
 20 low area, and if you're close to a creek,
 21 you probably have more low areas you want to
 22 fill in than not.

23 Q. Do you know in general where the

Page 28

1 this a phenomenon related to Anniston?
 2 A. I don't know. I wouldn't suspect it's
 3 limited to Anniston. The EPA issued -- I
 4 believe it's in the early 1980s. They
 5 issued a report called "The EPA Treatability
 6 Studies Report."

7 It listed characteristic
 8 discharges from different types of
 9 industries. And one of those industries was
 10 the foundry industry, and it clearly lists
 11 PCB as a characteristic discharge from
 12 foundries anywhere in the United States.

13 But, as far as a specific
 14 example, I couldn't give you a specific
 15 example.

16 Q. You have indicated that sometimes you
 17 saw foundry sand in the same area where you
 18 saw PCBs.

19 Have you or anyone else done or
 20 made an effort to correlate those; that is,
 21 correlate samples, showing PCBs to foundry
 22 sand in those same areas?

23 A. I don't know that I understand what

Page 27

1 foundries used to be located?

2 A. Some of them, yes.

3 Q. Are some of them in the flood plain?

4 A. There's probably one or two. I think

5 there's two or three foundries that were
 6 located in the flood plain of Snow Creek.

7 Most of the foundries were located either
 8 outside the flood plain, or if they were in
 9 a flood plain, they were upgraded with our
 10 facility.

11 Q. Do you know of any areas around the
 12 United States where they're concluding the
 13 foundries, in typically the cities other
 14 than Anniston, contain PCBs or any level of
 15 PCBs?

16 A. I can't say I know specifically
 17 anywhere outside the United States, but,
 18 obviously, my focus isn't outside the United
 19 States. It's in Anniston.

20 Q. I'm talking around the United States.
 21 Do you know any basis for concluding in
 22 general when you see the foundry sands in
 23 other cities that you also see PCBs, or is

Page 29

1 type of correlation you are looking for,
 2 whether you are asking is there a
 3 correlation between the mere presence of
 4 foundry sand and the presence of PCBs.

5 Generally, speaking, yes, there
 6 is. But foundry sands are unique. I mean,
 7 foundry sands aren't a result of a
 8 continuous, ongoing discharge, like you
 9 would see in surface water. Foundry sands
 10 are a result of pile of waste that somebody
 11 comes and gets something from that pile and
 12 then hauls it away.

13 Wherever you -- the different
 14 materials -- whether it's led, zinc, PCBs --
 15 the various constituents you would detect
 16 from what you pull from that pile, obviously
 17 depends on what is placed on that pile.
 18 There are some areas that may have high
 19 areas of led.

20 Probably there's some led waste
 21 and probably other areas where maybe they
 22 threw an old transformer that was filled
 23 with PCB fluids, and that fluid may have

8 (Pages 26 to 29)

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Page 30

1 leaked into the foundry sand. And that
2 particular foundry sand would have higher
3 levels of PCBs.

4 We have looked at properties
5 that have foundry sand and low levels of
6 PCBs, and it's typically low levels. It's
7 typically in the one to ten part per million
8 range.

9 But we have looked at the
10 correlation of the foundry sands, the PCBs,
11 and other contaminants; such as, led, and we
12 find there are a fair number of properties
13 in Anniston that contain all three that are
14 outside the flood plain and typically in
15 locations that, in our opinion, would be
16 physically impractical for the PCBs to have
17 come from us.

18 That leads us to a conclusion
19 that those PCBs are present on that specific
20 property or properties as a result of
21 foundry operations.

22 Q. You are using an assumption there
23 wasn't a significant amount of PCBs that was

Page 32

1 In Anniston, we see nothing of
2 the sort. We see, as I described to you
3 earlier, very spotty levels of PCBs --
4 non-detect here, ten here. We see it in all
5 directions. It's not indicative to air
6 transport by any stretch of the imagination.
7 Q. But if you proctor those results on a
8 map, you do see higher results for PCBs the
9 closer you get to the plant?

10 A. In the drainage ditches, not outside
11 the flood plains. Once you get outside the
12 flood plains and look at the residential
13 properties, I can take you to properties
14 that are greater than ten parts per million
15 that are a mile away from our facility that
16 have hundreds of properties in between them
17 where there's no detections of PCBs. When I
18 say "between," between that property and our
19 facility.

20 Q. As we discussed earlier, there seems
21 to be inconsistency in the results between
22 individual pieces of property, right?

23 A. We are seeing different levels and

Page 31

1 moved?

2 A. Yes. And the data we have certainly
3 supports that conclusion. I don't want to
4 call it an assumption.

5 Q. The only data you have is from when?

6 A. What type of data?

7 Q. Air.

8 A. We been collecting air data since
9 1999, I believe. But the conclusion I would
10 draw isn't based on air data we are
11 collecting today.

12 It would be based on, if there
13 was an air source, what you would expect to
14 see versus what we are actually seeing. If
15 air was a significant source of PCB in the
16 West Anniston community, you would expect to
17 see a gradient. You would expect to see a
18 pattern of PCBs that would be detectable.

19 Very similar to what you see
20 with surface water -- higher levels closest
21 to the plant; lower levels as you move away.
22 It would be in a direction consistent with
23 the prevailing winds.

Page 33

1 different concentrations of PCBs from
2 property to property.

3 Q. That's really not what I'm asking.
4 What I'm asking, though, if you were to plot
5 all your results on a map and plot levels
6 detected.

7 Let's say, use different colors
8 for different levels. One color for under
9 five, one color for five to ten, one color
10 for ten to twenty, and so forth.

11 Don't you find that, in
12 general, the higher levels are closer to the
13 plant?

14 A. I think, when you are looking within
15 the drainage pathways, certainly. We never
16 tried to argue we are not responsible for
17 PCBs discharges from our facility.
18 Certainly, PCBs were discharged from our
19 facility.

20 And in those areas where we are
21 confident that those discharges, in large
22 part, came from our facility, that is
23 exactly what you see, what you just

9 (Pages 30 to 33)

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Page 34

1 described.
 2 Once you get outside those
 3 pathways, once you get outside the flood
 4 plains, what you are describing is not the
 5 case. It is actually -- we have tried to
 6 correlate concentrations with distance from
 7 the plant in those outside the flood plain
 8 areas, and it's scattered. You get no
 9 consistent pattern or gradient that you are
 10 trying to suggest outside the flood plains.
 11 Q. And your title once more is what?
 12 A. My title?
 13 Q. Yes, sir.
 14 A. Manager of remedial projects.
 15 Q. Does that mean you're in charge of
 16 remediation in Anniston?
 17 A. Yes.
 18 Q. Is it, then, correct that, in general,
 19 you do not take the responsibility for the
 20 PCBs around the Anniston plant other than
 21 the flood plains?
 22 A. No, that's not correct.
 23 Q. Well, then, is the opposite true?

Page 35

1 That you do, as the guy in charge of the PCB
 2 remediation of the Anniston plant, take
 3 responsibility for cleaning up the PCBs
 4 around the Anniston plant whether they do or
 5 do not appear in flood plains?
 6 MR. CLARK: Object to the form.
 7 A. What is true is that we have made
 8 commitments and reached agreements with the
 9 Environmental Protection Agency and the
 10 State of Alabama to go out into Anniston and
 11 address the presence of PCBs, wherever we
 12 find them. We have been in the process of
 13 fulfilling that commitment for a number of
 14 years.
 15 Q. (By Mr. Davis) I don't know what
 16 "addresses" means. I don't want to be too
 17 picky.
 18 Let's start with y'all
 19 investigate, right?
 20 A. That's typically one of the earlier
 21 steps, to investigate, yes.
 22 Q. What I want to know is, folks in
 23 Anniston who have residential properties

Page 36

1 that got PCBs on them, whether they are in a
 2 flood plain or not, do y'all intend to clean
 3 those PCBs up?
 4 A. I would say we more than intend to
 5 clean them. We are actively cleaning them
 6 up.
 7 Q. And are y'all just doing that out of
 8 the goodness of your heart, or is it because
 9 you admit you're responsible for them being
 10 there?
 11 MR. CLARK: Object to the form.
 12 A. We are doing it because we made a
 13 commitment to EPA, to ADEM, and regulatory
 14 agencies as well as the community to address
 15 PCBs in Anniston, and that is exactly what
 16 we are doing, wherever we find them.
 17 We could step in and draw a
 18 hard line and say, these are ours and that's
 19 all we are dealing with. That's not the
 20 commitment we made. We made a commitment to
 21 deal with them wherever we find them, and
 22 that is exactly what we are doing.
 23 Q. (By Mr. Davis) One of the places you

Page 37

1 found them was down at a park in Oxford?
 2 A. Oxford Lake Park, yes.
 3 Q. You dealt with them by putting them
 4 under a parking lot?
 5 MR. CLARK: Object to the form.
 6 A. There were two different methods we
 7 used to clean up the PCBs down there at
 8 Oxford Lake Park. Some of the PCBs we found
 9 exceeded the toxic levels for managing them
 10 on site. They were higher than fifty parts
 11 per million. Those had to go to a regulated
 12 disposal facility in a mill in Alabama.
 13 Those PCBs that were less fifty
 14 parts per million -- actually, I should say
 15 less than forty.
 16 Anything less than forty, we
 17 did manage at the park itself, and one of
 18 the ways we did that was building a parking
 19 lot on top of some of them.
 20 Q. (By Mr. Davis) How did you manage
 21 them other than putting a parking lot on top
 22 of them?
 23 A. Some of them were just capped in

10 (Pages 34 to 37)

1 place. There was an area in the park where
2 we worked out a cooperative agreement with
3 the City of Oxford to build some tennis
4 courts over the top of those PCBs as a
5 containment remedy.

6 There was another area in the
7 park, just across the street from where we
8 built the tennis courts, in another small
9 parking lot, where we just brought in about
10 18 inches of clean soil and placed that on
11 top of the PCB-containing soil and planted
12 some grass, which is growing slowly but
13 growing nonetheless.

14 Q. Is that an area where kids still play
15 in?

16 A. Yes.

17 Q. Are you not aware, based on your
18 reading literature, that PCBs buried will
19 migrate back to the surface?

20 MR. CLARK: Object to the form.

21 A. I'm not aware of anything that
22 suggests PCBs that have been capped in place
23 will migrate to the surface, no.

1 Q. (By Mr. Davis) Have you made an
2 inquiry in that regard or looked that
3 question up?

4 A. Absolutely.

5 Q. Your testimony would be that there is
6 no support for that?

7 A. My testimony would be that the
8 remedies we put in place are adequate, just
9 not in our opinion or but in the opinion of
10 the regulatory agencies, and that that
11 potential issue you're suggesting, migration
12 back to the surface, if it exists, is so
13 small as to be inconsequential.

14 Q. Have you been back out to test for
15 that to see?

16 A. Yes.

17 Q. Where you put the clay caps?

18 A. Yes.

19 Q. Let's move for a minute to your
20 landfills on the south side.

21 Do they have a clay cap on
22 them, back in the good old days?

23 MR. CLARK: Object to the form.

1 A. I wouldn't define anything as "the
2 good old days."

3 There is a -- the south
4 landfill, based on which section of the
5 landfill you look at, has different types of
6 caps now.

7 Q. (By Mr. Davis) I don't want to talk
8 about the current caps that have been put on
9 there since you're been there or just
10 shortly before then. I want to go back now
11 in the '70s or so.

12 Weren't there clay caps put on
13 that landfill a long time ago?

14 MR. CLARK: Object to the form.

15 A. Certain portions of it had clay caps
16 put on it in the '70s. The south landfill
17 operated until 1986, I believe.

18 Some areas have more -- I will
19 use the term "thorough" caps put in place
20 based on what was buried in that particular
21 part of the landfill.

22 Q. (By Mr. Davis) The area of the
23 landfill that had PCBs put in it, did it

1 have a clay cap put on it during the '70s?

2 A. During the operation of the landfill,
3 there would be layers of clay put on the
4 waste material that was placed in the
5 landfill. Then, when we closed down the
6 PCB-manufacturing facility and closed that
7 portion of the landfill, my recollection,
8 based on reading reports we provided to the
9 regulatory agencies, is that there was a
10 clay cap put on top of the PCB cell.

11 That area was then used for a
12 short period of time for some just municipal
13 waste -- paper, wood, not chemical waste.
14 Waste like you generate in your house.

15 Then, on top of that was placed
16 another foot or more of clay, and, then, a
17 vegetating cover. There is quite a bit of
18 cap between the current vegetated cover and
19 where the PCB is at.

20 Q. During the operation of the landfill,
21 as certain parts of the landfill were used,
22 there was clay put on top of it then?

23 A. Yes, that's my understanding from what

Page 42

1 I read.
 2 Q. As you told us, more clay and more
 3 clay put on it?
 4 A. Yes.
 5 Q. Is it correct that the PCBs in that
 6 landfill have migrated back to the surface?
 7 MR. CLARK: Object to the form.
 8 A. I don't think there's any data to
 9 suggest that the low levels of PCBs that
 10 have been detected on the cover of the old
 11 PCBs cells were a result of migration to the
 12 surface.
 13 I think a more logical
 14 explanation is that the soil we used for
 15 that clay cap contained some low levels of
 16 PCBs in it.
 17 Q. (By Mr. Davis) Where did that soil
 18 come from?
 19 A. I don't know. Logically, you would
 20 suspect it came from somewhere in the
 21 vicinity of the landfill, but I couldn't
 22 tell you for sure.
 23 Q. Didn't that clay come from the area

Page 44

1 Best I can tell you is give you
 2 a hypothetical question, which is, assume
 3 with me for a minute that the soil used to
 4 cap the PCB landfill came from the area of
 5 the intended expansion of the landfill; that
 6 is, also across the road there and also
 7 uphill.
 8 Would that have PCBs in it?
 9 MR. CLARK: Object to the form.
 10 A. I'm not aware of any expansion of the
 11 landfill uphill. The three PCBs cells were
 12 located at the northern edge of the south
 13 landfill. There is no additional landfill.
 14 Q. (By Mr. Davis) I said "upgrade." Let
 15 me change the subject for just a minute --
 16 not subject, but change the question.
 17 You would at least agree that
 18 on the PCB landfill, on the south landfill,
 19 the portion that had PCBs buried in it that
 20 when y'all tested the top of that landfill,
 21 the top of that clay, you found PCBs?
 22 A. Yes, we did.
 23 Q. What did you do to examine the

Page 43

1 where the landfill was being expanded to;
 2 that is, from up there on top of that hill?
 3 A. I don't know specifically where that
 4 soil came from
 5 Q.
 6 hill tion
 7 that of
 8 that f
 9 the
 10 was
 11 cert
 12 d
 13 with
 14 MR. CLARK: Object to the form.
 15 A. I apologize. I don't know that I
 16 completely understand your question.
 17 My first response is that I
 18 don't know where that soil came from. If
 19 you're telling me for a fact that it came
 20 from upgrade of the landfill --
 21 Q. (By Mr. Davis) I don't get to
 22 testify. If I did, I'd tell you that for a
 23 fact.

Page 45

1 question of whether those PCBs might have
 2 been there because they were migrating up to
 3 the surface from within the landfill?
 4 A. I'm not aware of any investigations
 5 that were conducted to draw that conclusion.
 6 That's not an investigation that would rise
 7 to the surface as the one you want to do
 8 right away.
 9 The potential for PCBs to
 10 migrate in that matter is so small. I don't
 11 know that potential really even exists,
 12 certainly with the concentrations of PCBs we
 13 found in the low part per million range.
 14 That's not how PCBs move.
 15 Q. Quintard Mall -- were you involved in
 16 any way in figuring out what to do with some
 17 PCBs at Quintard Mall?
 18 A. Towards the end of the Quintard Mall
 19 project, I was, yes.
 20 Q. What was going on at Quintard Mall
 21 when PCBs were detected?
 22 A. The mall was in the process of
 23 expanding to the east. In order to complete

12 (Pages 42 to 45)

Page 46

1 that expansion to the east, they had to
 2 basically build over the top of Snow Creek.
 3 Q. Snow Creek currently runs under it?
 4 A. Yes, it runs underneath the mall.
 5 Q. Where were PCBs found at Quintard
 6 Mall?
 7 A. They were found both in Snow Creek,
 8 along the banks of Snow Creek, and the flood
 9 plain in that particular area.
 10 Q. What did y'all do about that?
 11 A. Once again, two different approaches
 12 were taken. There were areas within the
 13 creek and outside the banks of the creek and
 14 the flood plain of Snow Creek where soils
 15 had to be excavated to allow for the
 16 expansion of the mall.
 17 When those soils -- I should
 18 say before they were excavated, we obviously
 19 tested them to determine what levels of PCBs
 20 were present. Those soils that had greater
 21 than fifty parts per million of PCBs were
 22 sent to the hazardous waste landfill in the
 23 mountain.

Page 47

1 And those soils that were less
 2 than fifty parts per million PCBs were for a
 3 period of time just stockpiled at the
 4 Quintard Mall site itself. And the final
 5 disposition was they were buried under one
 6 of two parking lots constructed at the mall.
 7 Once again, this was all done
 8 in accordance with work plans and overseen
 9 by the regulatory agencies.
 10 Q. The regulatory agencies have been
 11 overseeing y'all's PCPB projects since what?
 12 1972?
 13 MR. CLARK: Object to the form.
 14 A. The regulatory agencies have been
 15 overseeing work in Anniston since -- I will
 16 use the term "environmental laws" were
 17 passed by Congress and the EPA was formed.
 18 Q. (By Mr. Davis) The regulatory
 19 agencies have known that -- the United
 20 States government in the State of Alabama
 21 has know about y'all's PCB problem since the
 22 '70s, haven't they?
 23 A. They have known we manufactured PCBs,

Page 48

1 yeah.
 2 Q. They have known you contaminated the
 3 Snow Creek and Choccolocco Creek since the
 4 mid '70s, probably the late '60s to early
 5 '70s?
 6 MR. CLARK: Object to the form.
 7 A. I couldn't tell you what the
 8 regulatory agencies knew back in the '70s.
 9 When I can tell you is that in the early
 10 1980s, around 1983, if I'm not mistaken, the
 11 EPA came to our site and conducted a
 12 facility assessment, where they basically
 13 looked at our site and looked at our
 14 different manufacturing processes, both at
 15 the time current and historical, and wrote a
 16 report, which is called the "River Facility
 17 Assessment," which defined in the EPA's view
 18 what different areas of the facility needed
 19 to be addressed most immediately under the
 20 Resource Conservation Recovery Act.
 21 Since the completion of the
 22 River Facility Assessment, we have been
 23 taking the appropriate steps to address

Page 49

1 those areas which were identified by the
 2 EPA, and that would include the PCB
 3 manufacturing process.
 4 Q. (By Mr. Davis) So the time period you
 5 know about -- as you say, y'all have been
 6 working hard at it since the mid '80s, for
 7 almost twenty years?
 8 A. For addressing environmental issues at
 9 our facility, yes.
 10 Q. Let's go on and talk a little bit more
 11 about what you have accomplished in the
 12 almost twenty years since then. We talked
 13 about burying some PCBs under the parking
 14 lot at the park and burying some PCBs at the
 15 parking lot at Quintard Mall. Let's see.
 16 Sometime in the '80s, do you
 17 know anything about doing some work to clean
 18 some PCBs out of a ditch leading to Snow
 19 Creek?
 20 MR. CLARK: Objection.
 21 A. Yes, we did do some sampling and
 22 removal of PCBs from a ditch. We call it
 23 the 11th Street ditch. And that cleanup

13 (Pages 46 to 49)

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Page 50

1 also went a short ways into Snow Creek.
 2 Q. (By Mr. Davis) That cleanup started
 3 at about where Bethel Church is?
 4 A. I believe so. I don't know for sure.
 5 Q. I know you weren't there. I don't
 6 want to ask you too many questions about a
 7 time period you weren't there.
 8 What I'm curious about is, did
 9 you ever hear from anybody how come at that
 10 point in time the ditches further upstream
 11 from Bethel Church were not cleaned up?
 12 A. I couldn't give you a very specific
 13 answer to that. Based on what I have read
 14 and what some people have told me, we were
 15 asked by the EPA and ADEM. And we agreed to
 16 do some sampling of the 11th Street ditch
 17 and Snow Creek and identify those areas
 18 within the ditch that contained sediments
 19 greater than fifty parts per million.
 20 We identified those areas. We,
 21 then, proposed to the regulatory agency that
 22 we remove those PCBs from the ditch.
 23 For whatever reason I can't

Page 52

1 Q. (By Mr. Davis) Based on what you have
 2 seen since you have been out there, do you
 3 have a judgment as to where the PCBs came
 4 from that were in those ditches that were
 5 cleaned up in the '80s?
 6 A. In the 11th Street ditch and the
 7 ditches adjacent to our facility -- I will
 8 define "adjacent" as over in what we call
 9 the east side properties, a residential
 10 neighborhood that was east of our facility,
 11 it certainly -- the data certainly suggests
 12 a high probability that those PCBs came from
 13 Monsanto's manufacturing of those PCBs.
 14 Q. Do you have a view as to whether they
 15 came from the plant property itself or from
 16 one or more of the two PCB dumps or how that
 17 works?
 18 MR. CLARK: Object to the form.
 19 A. I wouldn't define the landfills as
 20 "dumps."
 21 In answer to your question, the
 22 surface water runoff from the west landfill,
 23 the south landfill, and the plant site all

Page 51

1 explain, the regulatory agencies did not
 2 comment or address our proposals to remove
 3 those PCBs for about a year or two years
 4 until we basically called them up and said
 5 we are going to do it.
 6 We went out there and removed
 7 that material and eventually was sent to the
 8 landfill.
 9 Q. At that point in time, you removed
 10 them then to what level?
 11 A. Fifty parts per million is what the
 12 regulatory agencies asked us to do.
 13 Q. Anything below fifty, y'all just left
 14 there?
 15 A. Yes.
 16 Q. Anything above fifty that was upstream
 17 from Bethel Church, y'all didn't investigate
 18 or look at or do anything with?
 19 MR. CLARK: Object to the form.
 20 A. I don't know if we went upstream of
 21 Bethel and didn't find anything in the
 22 ditches greater than fifty or if we just
 23 didn't just go upstream. I don't know.

Page 53

1 converged on the 11th Street ditch.
 2 Q. (By Mr. Davis) So you would think all
 3 three of those contributed?
 4 MR. CLARK: Object to the form.
 5 A. Generally speaking, yes. It depends
 6 obviously where those surface water runoff
 7 points entered the 11th Street ditch. There
 8 is a point downstream where you would be
 9 correct.
 10 Q. (By Mr. Davis) Was any effort, to
 11 your knowledge, made in the '80s at the time
 12 that work was done to cap the landfills or
 13 recap the landfills?
 14 A. The '80s, there were processes going
 15 on in the south landfill. At that time we
 16 didn't own the west landfill. That landfill
 17 was owned by Alabama Power.
 18 On the south landfill, there
 19 were activities going on to place caps on
 20 the south landfill at various cells at
 21 different times.
 22 Q. What about the portion containing
 23 PCBs?

14 (Pages 50 to 53)

Page 54

1 A. As I said, that area, based on my
2 understanding of what took place back then,
3 was capped when we completed dismantling of
4 the PCB manufacturing process.

5 There was an area on top of it
6 used for a period of time for municipal
7 waste, but it was finally capped,
8 quote/unquote, once and for all back in the
9 '80s. It would be before 1986 or '87.
10 That's when we discontinued use of the south
11 landfill.

12 Yes, there were capping
13 activities going on back then.

14 Q. You said there were capping activities
15 going on. It may be me. I may be confused.

16 Here is what I'm curious about.
17 You had -- well, are you telling me that the
18 area of the south landfill that contained
19 PCBs was recapped in the mid 1980s because
20 y'all learned that PCBs were leaking from
21 that landfill into the ditches?

22 A. No, I don't believe that was the
23 reason it was capped. The PCBs cells were

Page 56

1 A. I would say it's a combination of
2 both. When we -- obviously, when we remove
3 the sediments from the 11th Street ditch and
4 a small section of Snow Creek, we only
5 removed those sediments that contained
6 greater than fifty parts per million.

7 Anything less than fifty would
8 have been left behind. That's certainly a
9 source of PCBs found in the 1990s.

10 Additionally, when we conducted
11 some surface water monitoring from our
12 facility in -- I believe it was early
13 1990s -- '94, '95, somewhere in there.

14 In the process of obtaining our
15 storm water discharge limits, some low level
16 of PCBs were found in that water migrating
17 from the south landfill and from the plant
18 site. I'm sure those were another source of
19 PCBs into the 11th Street ditch.

20 Q. Were you involved in the work done
21 when some houses were torn down, bought by
22 Monsanto and torn down?

23 MR. CLARK: Object to the form.

Page 55

1 capped in the process of discontinuing the
2 use and operation of the south landfill.

3 A cap was put on to isolate the
4 material from the environment. That cap, to
5 the best of my knowledge, was not
6 specifically designed at that time to
7 address PCBs.

8 Q. The 1990s, when we are doing testing,
9 you found PCBs again in the same area that
10 had been cleaned up earlier, right?

11 A. Could you be more specific?

12 Q. You found PCBs in the west ditch?

13 MR. CLARK: Object to the form.

14 A. In the west ditch?

15 Q. (By Mr. Davis) Eleventh Street ditch?

16 A. Yes, we did find PCBs in the 11th
17 Street ditch.

18 Q. The PCBs that you found in the 11th
19 Street ditch, is it your judgment that those
20 were the same -- those were just PCBs that
21 had not been taken out in the 1980s, or were
22 they new PCBs that had been deposited there
23 from the landfills?

Page 57

1 A. No. The property purchase program --

2 Q. (By Mr. Davis) When I say "Monsanto,"
3 Monsanto, Solutia.

4 A. I understand, yes.

5 Q. I'm talking about as they're all the
6 same.

7 A. The same project. No. The
8 remediation -- the property purchase
9 program, remediation of those residential
10 properties that had been purchased was
11 completed before I became actively involved
12 with the project.

13 Q. Are you familiar in general what's
14 going on in the area of where y'all
15 purchased property?

16 A. Yes.

17 Q. What have you done with PCBs in that
18 area?

19 A. Generally speaking, PCBs in that area
20 were also placed under a cap and cover
21 system.

22 Q. So you're not aware of any PCBs in
23 those areas that were actually hauled off?

15 (Pages 54 to 57)

Page 58

1 A. If any were hauled off, it would have
 2 been in small quantity. To answer your
 3 question, no, I'm not personally aware of
 4 any hauled off.
 5 Q. If it was hauled off, it would have to
 6 be more than fifty parts per million?
 7 A. Not necessarily. It would have been
 8 PCBs that had to be excavated for one reason
 9 or other.
 10 The way the Toxic Substance
 11 Control Act is set up, you can manage PCBs
 12 in place. When I say "manage," I mean
 13 you're going to remedy them in place,
 14 regardless of the concentration.
 15 Once you began excavating or
 16 moving or mobilizing those PCBs, if they
 17 were greater than fifty parts per million,
 18 they need to be treated as a hazardous waste
 19 and sent to the landfill or the mill.
 20 Anything less than fifty can then be managed
 21 on site.
 22 So, to be quite honest, given
 23 the location, I would be surprised if there

Page 60

1 expect to find PCBs there. The retention
 2 pond is built rather high up, and the
 3 drainage ditch, which PCBs migrated through
 4 from the south landfill, ran in an area that
 5 was much, much, much lower than that
 6 particular piece of property.
 7 It's unlikely that PCBs would
 8 have been able to migrate up to that point.
 9 Q. (By Mr. Davis) Y'all just rerouted
 10 that ditch into the pond?
 11 A. No. That drainage ditch -- the
 12 drainage ditch itself was closed down. We
 13 placed down some impermeable liners and put
 14 some clean soil on top and basically capped
 15 that entire area.
 16 The storm water flow from the
 17 east side properties and the south landfill
 18 and the plant site was incorporated into a
 19 much broader and a -- well, a much broader
 20 storm water control project that was a part
 21 of the capping of the south landfill. I
 22 should say the final capping of the south
 23 landfill on those east side properties. The

Page 59

1 are not PCBs greater than fifty parts per
 2 million under that cap.
 3 Q. There's a retention pond out around
 4 the plant somewhere, isn't there?
 5 A. Yes, it's on the east side properties.
 6 Q. Do you know when it was put in?
 7 A. 1996 -- '95, '96, sometime in there.
 8 Q. Do you know whether it's on the
 9 property y'all purchased under that program
 10 of purchasing residential properties?
 11 A. The retention pond was built on
 12 property already owned by Monsanto.
 13 Q. Do you have any idea what the levels
 14 of PCBs were on that property that was
 15 already owned by Monsanto prior to the time
 16 the retention pond was put in?
 17 A. No, I don't.
 18 Q. Based on your general understanding of
 19 PCBs in the area, would it be your
 20 conclusion that there are probably PCBs in
 21 that location?
 22 MR. CLARK: Object to the form.
 23 A. Based on the topography, you would not

Page 61

1 ditch itself no longer exists.
 2 Q. Does water coming off the south
 3 landfill now go into that retention pond?
 4 A. Yes.
 5 Q. Water coming off the plant now goes
 6 into that retention pond?
 7 A. No. From the plant site, it goes
 8 directly to a discharge monitoring point, an
 9 outflow structure.
 10 Q. A collection box?
 11 A. Yes, right by 10th Street.
 12 Q. The water coming from the west
 13 landfill, that would not go into that
 14 retention pond either?
 15 A. That's correct. There is another
 16 retention pond that is built, which collects
 17 water from the area, from the west landfill
 18 area, and that discharges through another
 19 outflow structure.
 20 But both of them discharge into
 21 the 11th Street ditch.
 22 Q. Does the water coming off the plant
 23 property or let's say where the old plant

16 (Pages 58 to 61)

Page 62

1 used to be, does that go into any retention
 2 pond before it goes into the Snow Creek?
 3 A. No. Not now, it doesn't.
 4 Q. Are the retention ponds designed to
 5 assist in keeping PCBs from getting in Snow
 6 Creek, or are they designed for a different
 7 purpose?
 8 A. They are designed for a different
 9 purpose. They were primarily designed to
 10 control the rate of surface water runoff
 11 from those properties, from Coldwater
 12 Mountain and the landfills. We are talking
 13 hundreds and hundreds of acres.
 14 We want to be able to control
 15 the rate at which that storm water was
 16 released into the downstream waterways, and
 17 that's what those retention ponds give us --
 18 is a storage capacity.
 19 Q. Basically, what they are designed to
 20 do is what any commercial project would be
 21 required to do; that is, have storm water
 22 retention?
 23 A. That's correct. They were used

Page 64

1 Q. (By Mr. Davis) No. I'm just talking
 2 about as a general principle. I'm not
 3 talking about these two retention ponds in
 4 particular.
 5 I'm talking, as a general
 6 principle, assuming that someone did design
 7 a retention pond or -- let's back up a
 8 minute.
 9 Are retention ponds sometimes
 10 used to assist in keeping toxic substances
 11 from leaving the area?
 12 A. I'm sure they could be used for that
 13 purpose. I have no experience with any. I
 14 wouldn't argue that they could be used in
 15 some circumstances for that purpose.
 16 Q. You don't think that's typically done?
 17 MR. CLARK: Object to the form.
 18 A. All I know it hasn't been done in any
 19 of the projects I have been associated with,
 20 which is an extremely small percentage of
 21 all the cleanup projects going on.
 22 Q. (By Mr. Davis) None of the -- well,
 23 then, one of the cleanup projects you have

Page 63

1 obviously during construction of the cap and
 2 cover system on the landfill in 1997,
 3 somewhere in there.
 4 The retention pond on the east
 5 side property was used to collect sediments
 6 that we knew were going to be disturbed
 7 while we were constructing a landfill cover.
 8 That would include both PCB-containing
 9 sediments as well as the clean soil we were
 10 bringing in. It would capture those. But
 11 the primary design was for the storm water
 12 control. That really remains its purpose
 13 today.
 14 Q. When you have a retention pond that's
 15 primary purpose is to trap sediment
 16 containing toxic substances, is there
 17 typically a procedure for cleaning that pond
 18 out?
 19 MR. CLARK: Object to the form.
 20 A. Well, you have asked a question that's
 21 really not so applicable to our situation.
 22 You prefaced the question by saying it's
 23 designed to capture toxic substances.

Page 65

1 been involved with before has used a
 2 retention pond similar to the ones that have
 3 been put in before for the purpose of
 4 keeping toxic substances from escaping?
 5 A. None that I have been associated with.
 6 Other than the case here in Anniston, that
 7 is a partial result, I guess, for lack of a
 8 better term, of our system. That's not what
 9 it was designed for.
 10 Q. If one had set out to design a
 11 retention system for the purposes of
 12 capturing toxic substances, would you have
 13 done it somewhat differently?
 14 A. Not in this particular case. You keep
 15 using the term "toxic substances." I would
 16 have to disagree with characterizing PCBs in
 17 that manner.
 18 For our case, where we are
 19 looking at PCBs, I think a storm water
 20 retention pond, as we have it designed,
 21 would accomplish that purpose.
 22 Q. Your position is that PCBs are not
 23 toxic?

17 (Pages 62 to 65)

Page 66

1 A. Yeah, that's my position. That's my
2 belief, based on my knowledge of the issue.
3 Q. Your position is that PCBs are not
4 hazardous to people's health?
5 A. Not to humans, no. I don't believe
6 so.
7 Q. Have you expressed that opinion to any
8 of the residents of Anniston?
9 A. Yes.
10 Q. Have you expressed that to any of the
11 people who live around the plant?
12 A. Yes. Anyone who asks me that
13 question, I offer the same answer.
14 Q. Have you heard other employees of
15 Monsanto express that same opinion?
16 A. Yes.
17 Q. Who would that be?
18 A. Many of the people I work with. Some
19 of the people I met who used to work in the
20 old Aroclor plant, retirees.
21 Q. Have you heard officers of Solutia
22 express that opinion?
23 A. I haven't personally, no.

Page 68

1 management, our plant manager and site
2 leadership, certainly, I have heard them
3 express that to the community.
4 Q. Have you heard them express that to
5 assembled groups of people?
6 A. Yes.
7 Q. Who would that be and what assembled
8 groups of people?
9 A. Our plant manager has expressed that
10 opinion. Specific groups, I can't name them
11 all. We don't walk around joined at the
12 hip.
13 There's been several
14 presentations that him and I have given
15 jointly. There was a group of medical
16 doctors from Jacksonville State University
17 we talked to and we expressed that.
18 Q. I'm more interested in people from the
19 community.
20 Who have y'all expressed that
21 to, what groups of people?
22 A. I don't know who our plant manager has
23 expressed it to specifically in the

Page 67

1 Q. Have you heard other people with
2 titles at Monsanto express the opinion to
3 people who live there that PCBs are not
4 toxic or not hazardous to use?
5 A. I should take a step back. I'll talk
6 Solutia.
7 Certainly, I have heard the
8 leadership of our company express the same
9 opinion. That based on the studies that
10 have been done and our understanding of
11 those studies, that PCBs pose no long-term
12 health effects to humans.
13 Q. You heard officials of Solutia say
14 that to similar groups of people from
15 Anniston?
16 A. I have not heard it said to assembled
17 groups of Anniston, no.
18 Q. Have you heard them say it to any
19 residents of Anniston at all?
20 A. Personally, no. I would preface that
21 by saying I'm talking, which is what I
22 assume you're talking about, the executive
23 leadership. When you talk about our local

Page 69

1 community. We were over there speaking at
2 functions together.
3 Personally, I have expressed it
4 to various clubs -- Rotary Clubs, Kiwanis
5 Clubs. There is a leadership of Calhoun
6 County recently, just a week or two. I
7 spoke to a group of about forty individuals,
8 a number of which were from West Anniston.
9 I was asked that question, and
10 I gave that opinion.
11 Q. On any of those occasions, was anybody
12 else from the plant there?
13 A. Yes. There was one other person from
14 the plant at that particular occasion.
15 Q. Who was that?
16 A. He was the maintenance manager for the
17 facility, a gentleman named Mike Moseley.
18 He was there because he was part of this
19 leadership of this Calhoun County group.
20 Q. Have you discussed that position with
21 other people at Monsanto; such as, the plant
22 manager?
23 A. Yes.

18 (Pages 66 to 69)

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Page 70

1 Q. Is he aware you're expressing that
2 opinion; that is, that PCBs are not
3 hazardous to humans, to the residents of
4 Anniston?
5 A. Yes.
6 Q. Does he agree with your expressing
7 that opinion?
8 A. As far as I know, he agrees. He has
9 never suggested otherwise to me.
10 Q. The surface water runoff of the plant,
11 is there anything in place between the plant
12 and Snow Creek designed to prevent PCBs from
13 leaving?
14 A. Yeah. There's a significant amount of
15 work that's been done to prevent PCBs from
16 moving from the plant site to Snow Creek.
17 Q. What is that?
18 A. We talked about much of it -- the cap
19 and cover projects.
20 Q. I'm talking about the plant area
21 itself right now. I think the cap and cover
22 we talked about has been done with
23 landfills.

Page 71

1 A. That's correct.
2 Q. Places like that. Let's limit our
3 discussion for a minute to the plant
4 property; say, the area where the old
5 Aroclor plant used to be and the sewers and
6 ditches and whatnot.
7 A. Our manufacturing facility itself?
8 Q. Right.
9 A. Yeah. There's been a number of
10 activities taken place to help prevent, and
11 our hope is to eliminate the migration of
12 PCBs away from the facility.
13 I will start out with the old
14 Aroclor manufacturing facility, which had an
15 asphalt cover placed on top of it, to
16 isolate any PCBs from running surface water.
17 The sewer system on the plant site, there is
18 24-inch and 36-inch sewer system, which we
19 have taken steps to line the inside of that
20 sewer to prevent any legacy sediments that
21 remain in that sewer that may contain PCBs
22 from migrating away from the facility.
23 We also routed that sewer

Page 72

1 system to a single small collection point,
2 where it is pumped through an activated
3 carbon filtration system, to remove any
4 trace amounts of PCBs that may remain in the
5 water before it leaves our plant site.
6 There have been some small
7 sections -- when I say "small," 10- or
8 20-foot sections, of the sewer system that
9 has been in just bad condition that it's
10 basically collapsed on itself, where we have
11 replaced those sections of sewer.
12 We have a warehouse facility,
13 where we used to process our Aroclor
14 products. There was a unit called a flaker
15 unit, which was used to turn in the waxy
16 Aroclor products into a flake. We removed
17 that unit. We replaced some ceiling and
18 wall panels on that warehouse.
19 There are some areas of the
20 floor where we did some cleanup activities.
21 There is a process spelled out in the Toxic
22 Substances Control Act for cleaning up PCBs
23 which have leached into concrete, using the

Page 73

1 various solvents. And, then, we conducted
2 that process on certain areas of the floor
3 in our warehouse. That's another activity
4 we did.
5 There are other areas of the
6 plant site that had layers of crushed rock
7 placed on top of them to help reduce the
8 potential for PCBs to migrate away from the
9 facility. Those are some of the activities.
10 We are obviously still in the
11 middle of a -- I shouldn't say we are in the
12 middle of an investigation. We just
13 completed a river facility investigation on
14 the plant site. We anticipate the outcome
15 of the corrective measure study or
16 feasibility study that will follow will show
17 that there are some other measures we need
18 to take, and we will take those measures.
19 Q. Let's -- I'm going to try to start
20 with the first one you mentioned, which is
21 the Aroclor area of the plant.
22 You have done some testing in
23 that area and found some PCBs in the dirt in

19 (Pages 70 to 73)

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Page 74

1 that area?

2 A. There was some testing done in 1988

3 and '89. Yes, we did find PCBs in the soils

4 around the Aroclor plant.

5 Q. Do you remember what kind of levels

6 they were in general?

7 A. It varied. There was -- generally

8 speaking, they were on the order of ten to

9 fifty parts per million. There was a pretty

10 wide range there.

11 There was one particular

12 location, where we detected PCBs levels

13 about 10,000 parts per million, but it was

14 an isolated hot spot.

15 Q. Now, what was the situation in the

16 area of the old Aroclor plant when you stood

17 there? Was it grass, was it dirt, was there

18 a building on it? What was it, when you

19 took your job in 2000?

20 A. When I took my job, there was an

21 asphalt cover.

22 Q. So the asphalt had already been put on

23 it then?

Page 75

1 A. When I came to the project, yes.

2 Q. So what you know about that, you know

3 from discussions from other people with

4 Solutia, and in the course of doing your

5 job, they told you what had been done?

6 A. Yes, plus also reading reports that

7 had been submitted to the regulatory

8 agencies.

9 Q. And the asphalt cap that you saw

10 there, or the asphalt area you saw there,

11 how big was it?

12 A. I would say between an acre and two

13 acres probably.

14 Q. What's under the asphalt? Is it clay

15 cap in addition to asphalt, or is it just

16 asphalt on top of the ground, or what is

17 that?

18 A. My belief is that under the asphalt,

19 and it's about 6 inches of asphalt, is the

20 old concrete path that the old Aroclor

21 manufacturing plant was built upon.

22 There may be a layer of minor

23 material to provide some structural

Page 76

1 stability for the asphalt.

2 Q. Is the whole area under there, the

3 concrete floor of the old Aroclor plant,

4 some of it used to be a grassy area?

5 A. My understanding is it's all concrete.

6 I can't tell for sure.

7 Q. The only reason I'm curious about that

8 is you indicated you did some testing and

9 found some high levels of PCBs under there.

10 I don't visualize you testing concrete.

11 Can you explain that to me?

12 A. Certainly. Around the old Aroclor

13 plant, there are grassy areas as well as

14 asphalt roads. Obviously, we can sample

15 through the asphalt.

16 I should say asphalt roads that

17 have been built since we discontinued the

18 Aroclor operation. But there are some

19 grassy areas around the Aroclor facility.

20 As I said, we can sample some of the old

21 asphalt roads.

22 Q. Was that area that you then did the

23 samples and found, at least in one case, a

Page 77

1 very high result, but other cases -- I don't

2 want to characterize them.

3 A. I characterize 10,000 as pretty high.

4 Q. Were those areas also capped with this

5 asphalt?

6 A. Some areas have been capped with the

7 asphalt and others have not.

8 Q. What was done in the other areas?

9 A. In some of the areas, we haven't done

10 anything yet. If I could expand on that a

11 little bit, as part of the investigation we

12 did on the plant site, we did what's call a

13 risk assessment.

14 And that risk assessment looks

15 at the use of the property. It looks at the

16 potential exposure pathways, the routes and

17 time of exposure. The results of that risk

18 assessment -- the risk assessment concluded

19 that any area that had PCBs that was a high

20 occupancy area, which was defined as eight

21 hours a day, any high occupancy area that

22 had PCBs below the level of -- I believe it

23 was about forty parts per million would

20 (Pages 74 to 77)

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Page 78

1 require no further action from an exposure
2 perspective.

3 That assessment was reviewed
4 and approved by the regulatory agencies.
5 From a migration perspective, that's
6 something we have to still evaluate. The
7 data we have right now suggests that there
8 is not any significant migration pathways.
9 We need to present that to the regulatory
10 agency still, and they have the final say
11 whether anything needs to be done or not.

12 Q. There are still areas within the
13 bounds of the manufacturing facility that
14 have significant levels of PCBs that are not
15 capped?

16 A. I would say detectable levels that are
17 not capped, yes.

18 Q. What about sewers? The sewers you are
19 referring to, were those the old sewers that
20 were under the old Aroclor plant?

21 A. Under the Aroclor plant and the
22 largest part of the facility. There was a
23 sewer system that spread out across the

Page 80

1 appropriate to line it. Basically, what you
2 do is you take this -- it's like a big ball
3 of this -- I will use the term rubbery
4 plastic material. I'm way oversimplifying
5 this.

6 You use pressurized hot water
7 to push it into the sewer system, and that
8 pressurized water causes the material to
9 just not expand and go in the different
10 directions of the sewer, but the heat
11 literally -- I will use the term melts.
12 That's not what happens.

13 It literally melts the liner to
14 the side of sewer and creates this almost
15 like a hard plastic around the outside of
16 the sewer. It's basically hot water,
17 plastic, and pushing it through with heat
18 and melting the plastic.

19 Q. Tell me a little more about this
20 activated carbon system that's being used to
21 treat -- let's talk first about all the
22 water coming off the plant property.

23 A. It's all the water, all the storm

Page 79

1 whole facility, yes.

2 Q. It was the same sewer system that was
3 being used at the time the Aroclors were
4 being manufactured?

5 A. Yes, and it's still being used today.

6 Q. You found PCBs in that sewer system?

7 A. What we found was when we sampled the
8 surface water coming from that sewer system,
9 the sources were not even buried
10 underground, we did detect PCBs in the water
11 coming from that sewer system.

12 That's what led us to take some
13 steps to try and eliminate that migration
14 pathway.

15 Q. I suppose this question is more just
16 curiosity than anything else.

17 How do you line a sewer system
18 that's underneath concrete and asphalt?

19 A. It's an interesting process. The
20 first step obviously -- I will try not to
21 get in too much detail.

22 You videotape the whole sewer,
23 and you look for those areas where it's

Page 81

1 water. There is no processed water. Just
2 storm water.

3 I apologize. I just flat out
4 forgot your question.

5 Q. I was talking about the activated
6 carbon system that you put in place.

7 What water is it processing?
8 Is it all the water off the facility, or is
9 some of it perhaps storm water?

10 A. It's primarily -- it's not the entire
11 facility. It's primarily what I would
12 define as the southern half of the facility
13 that collects water in the storm sewer
14 system.

15 Q. Does that include the area around the
16 old Aroclor plant?

17 A. Yes.

18 Q. Water that used to run towards the
19 railroad tracks, does it still run that way
20 and not through the carbon?

21 A. Yes. The water on the northern half
22 of the facility is directed primarily
23 through some concrete drainage features,

21 (Pages 78 to 81)

Page 82

1 above ground drainage futures, to one of
 2 three different storm water outflows along
 3 the northern boundary of the facility, which
 4 empties into the 11th Street ditch.
 5 Q. Have PCBs been detected in the plant
 6 property on the northern half?
 7 A. There were one or two isolated
 8 locations, where we have detected some low
 9 levels of PCBs, yes.
 10 Q. Let's talk for a second about the
 11 northern half of the property.
 12 What's in place to keep,
 13 hypothetically, if PCBs were migrating in
 14 the plant, from getting into Snow Creek?
 15 MR. CLARK: Object to the form.
 16 A. For just the northern part of the
 17 facility?
 18 Q. (By Mr. Davis) Yes, for purposes of
 19 this question.
 20 A. The only thing that's really in place
 21 is the gravel and rock. It's primarily
 22 crushed gravel that covers most of that area
 23 of the facility. That's the only physical

Page 83

1 thing in place.
 2 There's also a program in
 3 place. I should say was in place back in
 4 the '90s, where we sampled those outflows
 5 regularly to see if any PCBs, as well as
 6 other things, were migrating from the
 7 facility. Without exception, we never
 8 detected PCBs migrating in any of those
 9 outflows.
 10 Q. You were sampling water?
 11 A. Yes.
 12 Q. Were you sampling any sediment?
 13 A. The sample would have included any
 14 sediment that drained in that water sample,
 15 yes.
 16 Q. Let's get back to the carbon system
 17 for the south part of the plant.
 18 Tell me what that looks like
 19 without looking at it.
 20 A. There is -- it's basically -- the
 21 carbon itself is in four different steel
 22 tubes. They are about maybe two to three
 23 feet in diameter and about twelve feet high.

Page 84

1 And the water is pumped from a
 2 collection sump, and it goes in the bottom
 3 and it works its way through the four carbon
 4 towers.
 5 Q. Do you want to take a break?
 6 A. When you get to a good stopping point,
 7 if we could take a restroom break, that
 8 would be great.
 9 (Recess taken.)
 10 Examination continued by Mr. Davis:
 11 Q. I think that brings us to the
 12 warehouse facility and the flaker. When you
 13 said the flaker unit, you described a little
 14 bit about what that was.
 15 Was that something that had
 16 been there ever since the term PCBs were
 17 manufactured?
 18 A. Yes. I don't know at what point
 19 during the history of PCBs manufacturing,
 20 but certainly since early the 1970s.
 21 Q. Describe a little bit more of what was
 22 in it and how big it was and where was it?
 23 A. I'll do my best. I don't know much

Page 85

1 about the flaker unit because that was
 2 before my time. The warehouse itself is a
 3 large warehouse. I would say it's probably
 4 a good two acres in size.
 5 It is located literally catty
 6 corner from the old Aroclor manufacturing
 7 facility. There is a railroad spur that
 8 comes up the western side of that warehouse,
 9 where we have historically loaded and
 10 off-loaded products. We currently use it to
 11 store our drum products that we still
 12 manufacture out of Anniston.
 13 It's got a large concrete
 14 floor. It sits way up in the air. Metal
 15 sides, metal walls.
 16 Q. I think you already told us what you
 17 did with that in order to alleviate that
 18 warehouse?
 19 A. I won't suggest we are done
 20 remediating that warehouse. What we did was
 21 we took the things that obviously were
 22 approving to be done, and we accomplished
 23 those tasks.

22 (Pages 82 to 85)

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Page 86

1 We still have some data, which
2 we have to -- it's been presented to the
3 regulatory agencies in a report. The
4 question is, do we still need to do anything
5 about what we didn't clean up, where we
6 found the lower levels of PCBs in the
7 concrete, and those questions need to be
8 answered.

9 We may need to do additional
10 work there or we may not. We have to figure
11 that out.

12 Q. You mentioned some crushed rock, and I
13 think you mentioned it being put down
14 somewhere to reduce migration.

15 How does that work? I don't
16 understand that.

17 A. Basically, when I say "crushed rock,"
18 it's really crushed. It's very hard. I
19 won't use "impermeable," but it's a very low
20 permeable surface. Water doesn't readily
21 sink down into it.

22 The way it prevents PCBs from
23 migrating is that when the water is running

Page 88

1 the disturbed dirt with PCBs in it, and you
2 may have something else to be done. If I
3 remember right, I remember you talking
4 about -- let me ask you this.

5 Suppose one has a piece of
6 residential property and one decides to
7 build a swimming pool, and you dig down ten
8 feet to build a swimming pool, and you find
9 in the lower part of that excavation PCBs
10 with a level of one part per million.

11 What do you understand you've
12 got to do?

13 A. From my perspective or the
14 perspective -- from my perspective, I would
15 go through a very rigorous regulatory
16 process.

17 Q. If somebody knew better and if they
18 did what's supposed to be done under the
19 regulations, what are you saying would be
20 done?

21 MR. CLARK: Object to the form.

22 A. If somebody was going to put a pool in
23 their yard, we'll use that example,

Page 87

1 across the surface and picking up little
2 sediment particles, it's picking up little
3 particles of that crushed rock, and it's not
4 picking up the underlying or potentially
5 PCB-containing soil particles.

6 Most of the areas of the
7 plant -- I should say in large sections of
8 the plant that crushed rock layer is up to
9 two feet thick. It's a fairly significant
10 cap.

11 Q. What's the difference between putting
12 that down and putting clay down?

13 A. No difference really. Clay would
14 probably accomplish the same thing. Clay,
15 you would obviously want to -- you wouldn't
16 want to leave the clay exposed. It would
17 probably erode much more readily than
18 concrete or these rock surfaces.

19 So if you did lay down clay, if
20 you wanted to establish a vegetative layer
21 on top, but with the rock and gravel, you
22 don't need to do that.

23 Q. You mentioned something earlier about

Page 89

1 practically speaking, my hope would be they
2 would contact us if their property was in
3 the area for potential PCBs and allow us to
4 check and see if PCBs were present, and if
5 so, allow us to address those PCBs on the
6 property, which we are willing to do.

7 Just from a process standpoint,
8 you would want to go out and sample the
9 soil, both on the surface and at various
10 depth increments to see how deep the PCBs
11 go. Typically, we are not finding anything
12 greater than a foot deep, but there are
13 exceptions to that rule. Not many, but
14 some.

15 But you would get that data,
16 and based on the outcome of that data, you
17 would know how to manage that material once
18 you excavated it. If you excavated it and
19 it was greater than fifty parts per million,
20 you would have to go to this hazardous waste
21 landfill or mill.

22 If you were to excavate it and
23 it was less than fifty parts per million,

23 (Pages 86 to 89)

Page 90

1 technically speaking, you could leave it on
 2 your property. But the more likely thing,
 3 and what we typically do when we come across
 4 less than fifty material, and we excavate
 5 it, we send it to another type of disposal
 6 facility, which is a Subtitle C, which is
 7 licensed to accept that type of material.
 8 Then, you would build your swimming pool.
 9 Q. (By Mr. Davis) You couldn't leave it
 10 on your property on top?
 11 A. Well, it depends on which regulations
 12 you are working under. If you are just
 13 strictly looking at the PCBs regulations
 14 under the Toxic Substances Control Act,
 15 anything less than fifty, yeah, we could
 16 manage right there on that property.
 17 Once we get into the Resource
 18 Conservation and Recovery Act and Circular,
 19 now we start conducting risk assessments.
 20 And the levels for leaving material on
 21 residential properties have been established
 22 by the EPA.
 23 The EPA did a risk assessment,

Page 91

1 and they have determined that levels above
 2 one part per million need to be removed in
 3 the upper foot of the soil and need to be
 4 removed from the property and properly
 5 disposed of or properly managed. TOSCA is
 6 just a waste management reg, with Circular
 7 getting greater exposure.
 8 If I haven't confused you
 9 enough, the simple answer to the question is
 10 given what we know about today, anything
 11 above a part per million needs to be taken
 12 off the residential property.
 13 Q. Have you had any involvement with the
 14 old limestone beds?
 15 A. My involvement with the old limestone
 16 beds, which were -- let me make sure we are
 17 talking about the same ones.
 18 They were located -- it's where
 19 the runoff from the PCBs manufacturing
 20 facility ran into before it left our
 21 facility?
 22 Q. Yes.
 23 A. My involvement with the old limestone

Page 92

1 beds, that's been an area that was
 2 identified back in 1999 that required some
 3 additional sampling. It wasn't adequately
 4 characterized on our first go through with
 5 the facility.
 6 We've recently gone out and
 7 completed that characterization of that old
 8 limestone bed area.
 9 Q. Do you know when those limestone beds
 10 were closed?
 11 A. I don't know. I know it was after we
 12 closed the PCB manufacturing facility, but I
 13 don't know specifically the dates.
 14 Q. What do you know in general about the
 15 results of this recent testing?
 16 A. We detected PCBs in the soils.
 17 Typically, in that ten to twenty part per
 18 million range, but there were some samples
 19 that were a hundred parts per million.
 20 Q. The work inside the -- the work at the
 21 facility itself in terms of this asphalt cap
 22 and in terms of the carbon system and things
 23 like that, when did all that get started,

Page 93

1 about when?
 2 A. The asphalt cap on the manufacturing
 3 facility, I don't know when that was put in
 4 place. But, as far as the carbon, the
 5 system being put in place and lining the
 6 sewers, that specifically was done, I
 7 believe, in about 1998.
 8 Some of the other actions we
 9 discussed were taking place well before
 10 that. We laid a lot of the crushed rock
 11 over the facility.
 12 Q. Do you know when that was done?
 13 A. I have seen pictures dating back to
 14 the mid to late 1980s that show large areas
 15 of crushed rock. I assume it was before
 16 that.
 17 I would suspect, based on my
 18 knowledge of the history of the facility,
 19 was in the early to mid 1980s, we dismantled
 20 a number of manufacturing facilities. Our
 21 P2S5, I don't know what that stands for, but
 22 that facility was dismantled, and when those
 23 facilities were dismantled, rock was placed

24 (Pages 90 to 93)

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Page 94

1 over large portions of those areas. That's
 2 probably a reasonable estimate of when much
 3 of that material was placed.
 4 Q. Anybody told you -- any employees of
 5 Monsanto told you what the purpose was of
 6 the limestone beds?
 7 A. My understanding was that the PCB
 8 manufacturing process, some of the runoff
 9 from that process was slightly acidic. I
 10 don't know the details, but somehow, small
 11 amounts of hydrochloric acid were produced
 12 as part of the PCB manufacturing process.
 13 Those limestone pits were
 14 designed to partially neutralize that and
 15 raise the Ph of that.
 16 Q. Are you familiar with any sumps that
 17 were in place -- do you know about any sumps
 18 that had anything to do with PCBs at any
 19 point in time?
 20 A. There was one sump that was located
 21 immediately north -- when I say
 22 "immediately," me to you, ten feet north of
 23 the PCBs manufacturing facility. That's

Page 95

1 where we found the 10,000 parts per million
 2 sample we had taken.
 3 I don't believe they exist any
 4 longer. I have never seen them. I have
 5 seen reports saying that the drainage
 6 features leading away from the Aroclor
 7 facility, that there were some traps that
 8 allowed the gross PCB product to
 9 disassociate itself from the water. It
 10 would get the gross stuff.
 11 That gross runoff could be put
 12 back into the PCB manufacturing process. We
 13 were making a product, where PCBs going out
 14 the door was a PCB we didn't make a penny on
 15 or ever how much we sold PCBs for.
 16 My understanding was there was
 17 an extensive effort to try to capture as
 18 much of that runoff as we could so we could
 19 put it back in that process and sell it.
 20 Q. Here, I guess, is really what I'm
 21 curious about. Prior to the late 1990s --
 22 let me restate it.
 23 Do you understand that at some

Page 96

1 point in time in the '70s that there was in
 2 place any systems to catch or reduce the
 3 level of PCBs that might have been leaving
 4 either of the dumps?
 5 MR. CLARK: Object to the form.
 6 A. Are you talking specifically the
 7 landfills now? Are you back to the
 8 manufacturing facility or either location?
 9 Q. (By Mr. Davis) The south landfill or
 10 the west landfill. I'll call it "landfill."
 11 I don't want to get in a word contest.
 12 A. Other than what I have already
 13 discussed with you, as material was placed
 14 in the landfills, it was not left exposed.
 15 There was a layer of clay, as my
 16 understanding.
 17 Q. At some point --
 18 A. That's the only step that I'm aware of
 19 that would have been taken. There may have
 20 been more, but, obviously, I was in
 21 kindergarten back then.
 22 Q. You don't know -- dealing with the
 23 west landfill, you don't know whether that

Page 97

1 was really a landfill operation or a dump
 2 operation in the sense you don't know
 3 whether it had been covered with dirt or
 4 not, do you?
 5 A. No, I don't.
 6 Q. Do you know whether there has ever
 7 been up until the very recent past -- let me
 8 restate it.
 9 Do you know whether there was
 10 ever any effort from the beginning of
 11 manufacture up through the 1980s to catch
 12 any PCBs that might be leaving the west
 13 bank?
 14 A. Well, the west landfill only operated
 15 until about 1960. When we transferred that
 16 property through a property swap to the
 17 Alabama Power Company -- we gave them the
 18 west landfill property, and they gave us a
 19 piece of property that we wanted to do some
 20 construction on.
 21 When that property was
 22 transferred, there was a soil cover placed
 23 over the top of the landfill. It was

25 (Pages 94 to 97)

Page 98

1 probably clay, but that's probably what's in
2 the area. But I can't tell you the
3 specifics of that cover.

4 And, then, over time, this is
5 my understanding through what I have been
6 told, that landfill became heavily overgrown
7 with vegetation. Those actions would have
8 contributed to -- I should say those actions
9 would have helped reduce the potential for
10 PCBs to migrate from the west landfill.

11 Were those actions specifically
12 to stop things from migrating in the west
13 landfill? Back in the 1960s, probably not.
14 They didn't have the ability to detect these
15 things in the environment, so you wouldn't
16 know anything was migrating anywhere. And
17 the standards of society back in those days,
18 they didn't warrant you do anything more
19 extensive than that.

20 However, those steps would have
21 helped reduce the potential for PCBs to
22 migrate.

23 Q. Is it okay to poison people back in

Page 100

1 material as it was placed, no, I'm not aware
2 of anything up until the early 1980s, when
3 some of the environmental regulations began
4 to come into effect, and we began taking
5 steps to understand and address the
6 migration of not just PCBs but other things
7 that may have been migrating from the south
8 landfill.

9 Prior to that, the only thing
10 I'm familiar with from reading reports is
11 what you just mentioned, putting a couple of
12 inches of dirt on top of it.

13 Q. (By Mr. Davis) Let me ask you, down
14 at the east water treatment plant, have you
15 been involved with that?

16 A. The City of Anniston's Choccolocco
17 Creek Freshwater Treatment Plant, yes, I
18 have been involved in it.

19 Q. Are there high levels of PCBs on that
20 site?

21 A. "High" is a relevant term. We found
22 PCBs up to a hundred parts per million in
23 some locations.

Page 99

1 the '50s?

2 MR. CLARK: Object to the form.

3 A. I wouldn't identify that we were
4 poisoning anybody back in the '50s.

5 Q. (By Mr. Davis) Let's don't talk about
6 what's acceptable and what's not.

7 All I want to know is, do you
8 know of any efforts other than throwing some
9 dirt on top of the west end landfill that
10 were ever made in the '20s, '30s, '40s,
11 '50s, '60s, '70s, '80s to keep PCBs from
12 migrating from the west end landfill into
13 Snow Creek?

14 MR. CLARK: Object to the form.

15 A. I'm not aware of any efforts that are
16 taken.

17 Q. (By Mr. Davis) Now, would your answer
18 be the same on the south landfill, or do you
19 know of some efforts that were taken at some
20 point on the south landfill other than
21 throwing dirt on top of it?

22 MR. CLARK: Same objection.

23 A. Other than throwing dirt on top of the

Page 101

1 Q. That's high enough that if they're
2 moved, they've got to be moved all the way
3 to the hazardous waste landfill?

4 A. At those locations, where we found
5 they were greater than fifty, the largest
6 portion of the site is in the one to twenty
7 part per million range, but there are some
8 areas very close to the creek where we found
9 fifty material, yes.

10 Q. And y'all have done what with regard
11 to that up until now?

12 A. We have taken a number of steps at the
13 Choccolocco Creek Waste Water Treatment
14 Plant. First and foremost, we characterized
15 the area, so we know what's there and what's
16 not there and where it's at.

17 Q. Y'all have been investigating?

18 A. Yes, and that investigation is
19 complete. And that data has been given to
20 regulatory agencies the waste water
21 treatment folks.

22 We have submitted a work plan,
23 which has been approved by ADEM, to address

26 (Pages 98 to 101)

Page 102

1 some stockpiled soils, which were placed on
2 a section of the waste water treatment
3 plant. That water plan has been approved,
4 and we completed a design for addressing
5 those stockpiled soils, which the State and
6 EPA are currently reviewing.

7 We have also had another work
8 plan approved to conduct the first phase of
9 the plant expansion. That is talking phase
10 at the Choccolocco Creek waste water
11 treatment plant. That work has been
12 completed. Within the next week or two, we
13 will be mobilizing some people down there to
14 complete the second phase of that plant
15 expansion.

16 Q. Complete the second phase of what kind
17 of expansion?

18 A. Just to give you a little history of
19 what's taking place at the Choccolocco Creek
20 Waste Water Treatment Plant, the waste water
21 treatment plant itself began a project back
22 in late 1990s -- '98, '99, to expand their
23 capacity. They were violating their state

Page 103

1 issued permit levels for discharging in the
2 Choccolocco Creek, and they had to expand
3 their plant to get back within what the
4 regulations allowed them to discharge.

5 They subsequently went out and
6 began building that plant expansion. In the
7 course of conducting that plant expansion,
8 they excavated about 60,000 cubic yards of
9 PCB-containing soil and placed it on a large
10 stockpile on the eastern bank of Snow Creek.

11 ADEM found out about this, and
12 the reason ADEM wasn't aware of this in
13 advance was because the contractor there did
14 not bother to get the appropriate permits to
15 conduct this work. So this was done without
16 the knowledge of the State, without the
17 knowledge of the EPA, and without the
18 knowledge of Solutia.

19 Q. Didn't get the permits from whom?

20 A. From the State of Alabama. They
21 needed specific construction and storm water
22 management permits, and they did not get
23 those permits.

Page 104

1 Q. Not permits to move PCBs?

2 A. Right.

3 Q. Construction permits?

4 A. Exactly. They also at that time --
5 I'm not going to get into a whole lot of
6 finger pointing here. But they also had a
7 letter from ADEM informing them of the
8 potential for PCBs at present in Snow Creek
9 and in areas adjacent to Snow Creek. That
10 letter was in their contractual documents
11 with the contractor.

12 They chose to ignore it.
13 Nonetheless, they created this stockpile of
14 dirt. The State found out about it. The
15 State took -- I will use the term "punitive
16 measures" against the contractor and the
17 Anniston Waterworks Sewer Board for not
18 paying attention to what they were told by
19 the State.

20 Nonetheless, we were approached
21 by the Water Board and by the State and
22 asked to become involved and start working
23 with the Water Board to address the soil

Page 105

1 that had been excavated and to help them
2 complete that expansion.

3 So when I talk about phases of
4 the plant expansion, that is the plant
5 expansion I am talking about.

6 Q. Okay. The PCBs that were found there
7 are in the flood plain of Snow Creek and
8 Choccolocco Creek; is that right?

9 A. Yes. And, in fact, you are right on
10 both cases. That is right where Snow Creek
11 and Choccolocco Creek come together.

12 Q. Y'all put those PCBs there, right?

13 MR. CLARK: Object to the form.

14 A. I would not -- I would certainly agree
15 that some of the PCBs at that location are a
16 result of our discharges from our
17 manufacturing operations. As we discussed
18 earlier, PCBs were used for a wide variety
19 of purposes, for many different industries,
20 and it would not be unexpected for some of
21 those PCBs to have migrated through the
22 creeks and waterways also.

23 Q. (By Mr. Davis) But y'all put most of

27 (Pages 102 to 105)

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Page 106

1 PCBs down there?

2 MR. CLARK: Object to the form.

3 A. It would be difficult to quantify. I
4 would limit my statement that certainly some
5 of the PCBs are likely discharges from our
6 facility, which is why we are working with
7 them to address them.

8 Q. (By Mr. Davis) When did those soils
9 first get found with PCBs?

10 A. I first became aware of it in early
11 2000, maybe April or May of 2000.

12 Q. Other than characterizing and
13 investigating and thinking about it, what
14 has actually been done to solve the problem?

15 A. As I said, we worked with the water
16 board to complete the first phase of their
17 plant expansion, and some of that
18 material -- all of that material was less
19 than fifty parts per million, so we were
20 able to manage that material on the facility
21 itself. It's in a pile that's got a big
22 plastic cover over the top of it.

23 We also went to a large

Page 108

1 A. As I said, the rest of those steps
2 were to go out and work with the contractor;
3 such that when they constructed additional
4 excavation that those soils were managed
5 properly so they did not erode and be
6 released into the waterways.

7 By characterizing the areas, we
8 know where those areas are, and we can
9 proactively address those before they need
10 to be excavated to complete the plant
11 expansion.

12 Q. How much of the PCBs in the flood
13 plain at the treatment plant have y'all
14 moved out of the flood plain?

15 A. Very little. Maybe a thousand cubic
16 yards of material that was less than fifty
17 parts per million.

18 The bulk of the material that
19 was generated is still there. As I also
20 said, there is a process in place that is
21 well underway to address those with some
22 level of finality.

23 Q. Y'all have known that fish in

Page 107

1 stockpile that was placed next to Snow
2 Creek, and that had a large plastic cover
3 placed over the top of it. Now it's
4 established a pretty significant vegetative
5 cover on top of it also.

6 Other than that, the steps we
7 have taken have been geared towards arriving
8 at the final remedy for that particular
9 site, which involves the work plans we
10 submitted and been approved and designed for
11 the stockpiled soil, and there will
12 certainly be more work that needs to be
13 done.

14 Q. So far, what y'all physically
15 accomplished is y'all put a sheet of plastic
16 over it?

17 MR. CLARK: Object to the form.

18 A. We took appropriate steps to prevent
19 PCBs from migrating from those excavated
20 soils. One of those steps was to put
21 plastic over the top of the stockpiles.

22 Q. (By Mr. Davis) What were the rest of
23 those steps?

Page 109

1 Choccolocco Creek had high levels of PCBs in
2 them since the late '60s or early '70s,
3 haven't you?

4 MR. CLARK: Object to the form.

5 A. I don't know when we became aware of
6 the presence of PCBs in the fish in
7 Choccolocco Creek.

8 Q. (By Mr. Davis) Can you tell me when
9 the process of trying to do something about
10 it started?

11 MR. CLARK: Object to the form.

12 A. The process was begun back in the
13 early 1980s, when we began taking steps that
14 began with the EPA's assessment at the
15 facility, to understand what the issues were
16 at our facility, what different constituents
17 may be migrating, which PCBs turned out to
18 be the primary one migrated from our
19 facility.

20 That initial assessment done by
21 the EPA in 1983 has been the foundation upon
22 which everything we have done today has been
23 based upon.

28 (Pages 106 to 109)

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Page 110

1 Q. (By Mr. Davis) It's gotten all the
2 way to where this pile of PCBs that were up
3 to a hundred parts per million down at the
4 intersection of Snow Creek and Choccolocco
5 has a big, old plastic cover on it, right?

6 A. I apologize. I didn't hear the first
7 part of your statement. When you are moving
8 into a process such as this, the initial
9 thing that's very well spelled out in both
10 the circular regs and it passes the common
11 sense test real easily is you start at the
12 potential source.

13 You don't want to conduct work
14 in the downstream areas, when you still have
15 a source feeding those downstream areas.
16 You end up chasing your tail and making no
17 progress.

18 We started at the facility. We
19 essentially eliminated the migration of PCBs
20 away from the facility. And from the late
21 1990s, we are actively working to address
22 that.

23 Q. When are you going to be finished?

Page 112

1 long-term risk.

2 Those areas, we will collect
3 the data and will be addressed -- they will
4 not be addressed right away. We have
5 completed where we can, and, unfortunately,
6 due to the ongoing litigation in Anniston,
7 there is a number of legal roadblocks that
8 have been placed in front of us.

9 But where we can get access to
10 those properties, we have addressed those.
11 If more are found, we will address those
12 also. The long-term risk to the environment
13 will be done in accordance with the process
14 that is installed by the regulatory
15 agencies. We will collect the data, much of
16 what has been directed. We will analyze
17 that data to determine what the risk levels
18 are to the environment.

19 If the data suggests we are
20 exceeding those risk levels, we will
21 evaluate what measurements need to be taken.
22 Some of that has been taken also. As far as
23 when the whole process will be done, it's

Page 111

1 A. We will finish when we are done.

2 Q. When is that going to be?

3 A. I don't know. What's important is
4 that -- you have to look at this as two
5 different ongoing processes here.

6 There is a process where the
7 EPA -- primarily EPA now, but in the past,
8 it's been ADEM, has looked at the data we
9 generated and said these areas -- and I can
10 be more specific if you want to me.

11 These areas need to be
12 addressed now. These areas have levels of
13 PCBs, which, we believe, the regulatory
14 agencies, present a short-term risk to the
15 human health environment. We want you to do
16 something about those now. We have done
17 that, and we are in the process of doing
18 that.

19 There is another part of the
20 process, which says these areas have lower
21 levels of PCBs. We do not believe they pose
22 a short-term risk to the human health in the
23 environment. We believe they may pose a

Page 113

1 more important the process be done
2 thoroughly and correctly for the short-term
3 risk than it be done now.

4 Q. I appreciate all that. I just want to
5 know when -- and let me give you some
6 guidelines by which we can talk about what I
7 mean by that.

8 How long is it going to be
9 before the fish in Choccolocco Creek, if I
10 go out there and get a bushel basketful of
11 them and take them home and eat them, that
12 I'm not going to be eating fish with those
13 levels? How long will that be?

14 A. I don't know.

15 Q. Five years, ten years, twenty years,
16 thirty years, fifty years?

17 MR. CLARK: Object to the form.

18 Q. (By Mr. Davis) Do you have any
19 judgment on that?

20 A. I don't know. That's part of our
21 investigation process. I will tell you that
22 there's some areas at the mouth of the
23 Choccolocco Creek, where it enters lower

29 (Pages 110 to 113)

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Page 114

1 Lake Martin, where we see PCBs levels in
 2 most species of fish. There is one
 3 exception, the striped bass.
 4 Q. I'm not talking about averages now.
 5 My question is -- I'm looking for the date
 6 in the future, and you can tell me based on
 7 your judgment and experience, that I can go
 8 to the Choccolocco Creek and pull a
 9 basketful of fish, take them home, and feed
 10 my family and my friends, and nobody is
 11 going to eat a fish over the FDA limit.

12 And you can't tell me whether
 13 that's going to be accomplished in the next
 14 five or ten or fifteen or thirty years.

15 MR. CLARK: Object to the form.

16 A. I can tell you, in my opinion, in some
 17 parts of Choccolocco Creek, you can do it
 18 now. There are other areas of Choccolocco
 19 Creek, where we are seeing low levels in the
 20 fish fall, but we do not have enough data
 21 yet.

22 When there will be more that
 23 fit the FDA consumption limit, whether

Page 116

1 those questions. We do not have that
 2 quantity of data yet.
 3 Q. Is it correct that the State of
 4 Alabama is unable to pull a bushel basket of
 5 fish out of Lake Martin itself and have them
 6 all be below FDA standards?

7 MR. CLARK: Object to the form.

8 A. You're correct, if they were to go out
 9 there and pull a bushel of fish, that there
 10 is a good probability that they would find
 11 some fish that exceed that fish consumption
 12 level. That is the average.

13 Q. (By Mr. Davis) We are still talking
 14 about my bushel now.

15 A. I'm answering the question, yes.
 16 There are some fish that would be a low
 17 percentage, but, certainly, the larger fish
 18 are still above that limit, yes.

19 Q. So you don't really know a place on
 20 Choccolocco where I can pull a bushel basket
 21 and not find one or more in that bushel
 22 basket?

23 A. Not on Choccolocco Creek. I fully

Page 115

1 that's by natural reduction in the levels or
 2 whether we need to go proactively and reduce
 3 that, whatever the answer to that -- that
 4 question will be answered as part of our
 5 remedial investigation process that we are
 6 undertaking under the EPA.

7 Q. (By Mr. Davis) The question of how
 8 long it will take will be answered?

9 MR. CLARK: Object to the form.

10 Q. (By Mr. Davis) To get my bushel
 11 basket?

12 A. I told you there are certain areas of
 13 the creek where you could get your basket
 14 right now.

15 But in the areas where that is
 16 not the case, and there are areas like that,
 17 I do not have a good answer to that
 18 question. I don't have an answer. It will
 19 take as long as it takes.

20 We will keep doing this work
 21 until we have the answer to those questions.
 22 You have to collect a data of certain
 23 quality and quantity to be able to answer

Page 117

1 expect you would find at least one.

2 Q. Then, let's take a different standard
 3 of analyzing when we are going to be
 4 finished with this.

5 When is the time period going
 6 to occur when a child can walk around in the
 7 dirt in his yard and his neighbors's yard in
 8 the area -- let's just say within a mile of
 9 that plant, that Solutia plant in Anniston,
 10 Alabama, and not walk across any dirt
 11 containing PCBs?

12 MR. CLARK: Object to the form.

13 A. The answer to that question is it's
 14 going to take a lot longer than it should.
 15 We have offered for every property that we
 16 believe there's a potential for PCBs to be
 17 present, above the EPA's cleanup standard,
 18 one part per million -- actually, we use the
 19 ten parts per million because that's the
 20 EPA's short-term cleanup goal.

21 We have offered to sample each
 22 and every one of those properties. Due to
 23 the ongoing litigation, both this case as

30 (Pages 114 to 117)

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Page 118

1 well as other legal proceedings, we have not
2 been able to get access to those properties.

3 It would happen a lot quicker
4 if we could get access to these properties
5 to sample them and find these properties
6 with PCBs to clean up and get access to
7 clean them up. The schedule is not being
8 hindered by our not willing to do it; it's
9 being hindered by people not allowing us to
10 do it.

11 Q. (By Mr. Davis) Name a single
12 residential piece of property that you
13 cleaned up below ten parts?

14 A. I can name thirteen.

15 Q. Below ten parts?

16 A. Let me take that back. You said
17 below. There have been none that are below
18 ten parts per million yet.

19 Q. You have been there how many years?

20 MR. CLARK: Let him finish.

21 A. If I could finish my question. The
22 process the EPA established -- this is not a
23 process we established. The process the EPA

Page 120

1 up properties between one part and ten parts
2 unless you get a certificate of something?

3 A. I'm telling you the EPA has told us to
4 focus our efforts on the properties that are
5 greater than ten.

6 Q. You have time to do more than thirteen
7 pieces of property in three years, don't
8 you?

9 MR. CLARK: Object to the form.

10 Q. (By Mr. Davis) Couldn't you finish?

11 A. Absolutely.

12 Q. Are you doing it now, or are you
13 waiting on the consent decree?

14 A. In most cases, we have to wait for
15 people to give us access to their property.

16 Q. You know some properties that you have
17 tested that you have not been told you
18 cannot go on, and you have not been told you
19 cannot clean up that are between one and ten
20 where you haven't done a lick and a snake in
21 terms of cleaning up; isn't that right?

22 MR. CLARK: Object to the form.

23 A. You're focusing on a very narrow piece

Page 119

1 established, initial efforts were needed to
2 find those properties that exceeded ten
3 parts per million and clean those properties
4 up.

5 And we have done that where we
6 have been allowed to do that by the property
7 owner. You are talking about properties
8 that are below ten parts per million.

9 There are a streamline risk
10 evaluation completed by the EPA that says
11 you need to go -- this is all part of the
12 consent decree that we have signed with the
13 EPA, and we are waiting for a federal judge
14 to decide if it's worthy of his signature or
15 not. We don't know yet.

16 As soon as he signs that, we
17 will then initiate a program and go out and
18 complete our sampling of these properties
19 and start cleaning up the properties below
20 one part per million and above the one part
21 per million.

22 Q. I'm a little confused. You're telling
23 me that the EPA is saying you do not clean

Page 121

1 on a much larger issue.

2 Q. (By Mr. Davis) You're exactly right,
3 sir. I'd like you to answer my question.

4 A. The answer to your question is there's
5 a wide variety of issues that need to be
6 addressed. This a large site. I don't
7 think anybody will debate that point. It
8 includes the manufacturing facility. It
9 includes landfills. It includes forty miles
10 of creek. It includes almost 8,000 acres of
11 flood plain and waterways to that flood
12 plain.

13 You just can't sit down and
14 decide you're going to go out and take care
15 of everything at one time. You have to
16 prioritize your efforts.

17 And we have been asked and we
18 agreed with the EPA to prioritize our
19 efforts on these subsets of properties. We
20 are getting to a point where our ability to
21 complete that effort is essentially stopped
22 because we cannot get to anymore properties.
23 We cannot get access to those properties,

31 (Pages 118 to 121)

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Page 122

1 which is why we are now transitioning into
2 those other properties. Yes, we will get
3 them cleaned up in very short order.

4 Q. My question is, don't you know of
5 properties that you have already tested that
6 are between one and ten parts per million
7 that you have permission to go ahead and
8 clean up, and you ain't done it?

9 A. No, there's no property between one
10 and ten that we have permission to clean up
11 yet.

12 Q. Because you haven't gone out and asked
13 permission.

14 There have been properties that
15 you have been permitted access to that
16 nobody says you can't clean up that are
17 between one and ten that you haven't been
18 able to clean up; isn't that right?

19 MR. CLARK: Object to the form.

20 A. If we had a choice between cleaning up
21 a property that has two parts per million
22 and a property that has fifteen parts per
23 million, we have been told to focus our

Page 124

1 up that we have not cleaned up.

2 Now, the reason for that
3 occurring is not that we are neglecting it
4 or we are ignoring these people. That is
5 not the case.

6 We are doing what is the
7 prudent thing to do and what the EPA has
8 asked us to do. We have been focusing our
9 efforts on those properties that are more
10 important to get cleaned up sooner, rather
11 than later, because of the higher level of
12 exposures.

13 To suggest we are ignoring a
14 certain segment of the community is
15 completely misleading and mischaracterizes
16 our efforts.

17 Q. (By Mr. Davis) In the first place, I
18 didn't suggest anything.

19 A. I think you are suggesting that, but
20 please continue with your questions.

21 Q. All right. What's the Miller
22 property?

23 A. The Miller property is a section of

Page 123

1 resources on cleaning up the property that
2 has the fifteen parts per million.

3 Q. (By Mr. Davis) I didn't ask you what
4 your reason was or what your excuse was.
5 I'm asking whether or not that's correct.

6 MR. CLARK: Object to the form.

7 A. What I am saying, there is a process
8 we have been asked to undertake, and we are
9 undertaking that process.

10 Q. (By Mr. Davis) I want an answer to my
11 question. My question is, isn't it true
12 that there are properties that you have
13 tested, residential properties, that are
14 between one part and ten parts that you know
15 of that nothing is standing in the way of
16 you cleaning it up other than perhaps your
17 time availability, and you haven't cleaned
18 them up?

19 MR. CLARK: Object to the form.

20 A. It's more than a time availability.
21 The answer to your question, there are
22 properties between one and ten parts per
23 million that we know will need to be cleaned

Page 125

1 property, about four acres in size, that is
2 located just outside our fence line, along
3 10th Street in Anniston. It's a property we
4 own.

5 Q. Did you acquire it recently?

6 A. I don't know the exact time we
7 acquired it. It was in the late 1990s, I
8 believe.

9 Q. What was that property used for before
10 you acquired it?

11 A. I believe it was an old foundry
12 property, if I'm not mistaken.

13 Q. There are dozens and dozens of houses
14 that y'all have acquired from former
15 residents around the plant; is that correct?

16 A. Yes, I would agree with that.

17 Q. Would you agree that you have total
18 and complete access to those properties?

19 A. Can you repeat the question?

20 Q. Would you agree that you have total
21 and complete access to those properties, the
22 ones you now own?

23 A. Yes.

32 (Pages 122 to 125)

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Page 126

1 Q. Other than putting plastic over the
2 top of the dirt on those areas, what have
3 you done to clean up the PCBs on those
4 properties?
5 A. There's two separate programs that I
6 would refer to. The first set of
7 residential properties we purchased was a
8 number of properties. I believe it was
9 thirty. I could be a little off on that
10 number.
11 Residential properties on what
12 we call the east side plants near the
13 defense plant. Those particular properties
14 have been cleaned up. The houses were
15 erased, and we placed a cap and cover on it.
16 I want to say maybe twelve or
17 thirteen properties that we have acquired
18 over the last year and a half as a result of
19 a legal settlement. Four of those
20 properties -- I believe that's the correct
21 number, four or five, had greater than ten
22 parts per million, and we have cleaned those
23 properties.

Page 127

1 Some of the properties, we did
2 not find PCBs, and we have not done anything
3 with those properties. But there are also
4 some, four or five, that contain between one
5 and ten parts per million. We have not
6 cleaned those yet either.
7 Q. What is the current situation of this
8 Conservation Core Project on Choccolocco
9 Creek?
10 A. The current status of that project is
11 we have negotiated an agreement with a
12 non-profit organization to go out and
13 establish this conservation corridor and
14 work with the property owners along the
15 creek and establish this conservation
16 corridor.
17 But that agreement has not been
18 signed and no transactions have taken place.
19 Q. Do you agree if you find PCBs
20 dispersed outside Monsanto's property at
21 hazardous levels that you now have a
22 revision to warn the people who might be
23 affected by that?

Page 128

1 MR. CLARK: Object to the form.
2 A. Perhaps you could better define
3 "hazardous levels" for me.
4 I agree we have an obligation
5 to keep the community informed of what we
6 find in our investigations and what we are
7 doing to address it. We are actively doing
8 that because they are the stakeholders.
9 They have a stake in the outcome of this
10 process.
11 Q. (By Mr. Davis) Would you agree if a
12 time period existed when Monsanto knew there
13 were hazardous levels of PCBs around its
14 plant and the community did not, that
15 Monsanto had an obligation to warn the
16 people in the community or even, to use your
17 phrase, keep them informed?
18 MR. CLARK: Object to the form.
19 A. Once again, it's difficult to answer
20 because I don't know what you are defining
21 as "hazardous."
22 I would agree to the extent
23 that Monsanto knew or Solutia knows about

Page 129

1 PCBs in an area, where something needs to be
2 done about it, that the company should
3 inform the community of that information.
4 Now, if I'm reading into your
5 question, stop me and I will stop talking.
6 But you have to have the knowledge that
7 there is an issue before you can notify
8 people of an issue. You have to have the
9 ability to detect it, to know it's migrating
10 from the facility, to know there are rules
11 and regs established by society, which, as
12 reflected through governmental laws, say
13 this stuff here is not appropriate to be
14 here.
15 Once that is the case, yes, you
16 should let people know that and allow them
17 to have a voice in what's done about it.
18 Q. (By Mr. Davis) Then, you would agree,
19 for example, if Monsanto had known in the
20 late '60s or early '70s that PCBs at
21 Choccolocco Creek were above the FDA limits
22 and also knew that the -- let me rephrase.
23 You would agree, then, that if

33 (Pages 126 to 129)

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Page 130

1 Monsanto knew that the PCBs in the fish in
2 Choccolocco Creek were above the FDA limits,
3 they had an obligation to warn people about
4 those levels?

5 MR. CLARK: Object to the form.

6 A. The simple answer to your question is
7 yes, but you've taken something and placed
8 it back in the time frame of the '60s and
9 early '70s. To best to my knowledge, there
10 were no FDA levels that could be exceeded,
11 much less technology to detect levels, where
12 the current FDA levels are set at.

13 To the extent you develop
14 knowledge and develop an understanding of
15 what's taking place in the community and
16 have a baseline of regulations to compare
17 that against, then, certainly, you have an
18 obligation not just to inform the community
19 but invite them to have a say in the
20 process.

21 Q. (By Mr. Davis) Your answer would be
22 the same, if in the early '70s or mid '70s
23 or whenever that information was available

Page 132

1 *****

2 REPORTER'S CERTIFICATE

3 *****

4
5 STATE OF ALABAMA
6 COUNTY OF JEFFERSON

7
8
9 I, Laura E. Durden, Notary Public in
10 and for the State of Alabama at Large, do
11 hereby certify that on April 25, 2003,
12 pursuant to notice and stipulation on behalf
13 of the Plaintiffs, I reported the deposition
14 of CRAIG BRANCHFIELD, who was first duly
15 sworn to speak the truth, the whole truth,
16 and nothing but the truth, in the matter of
17 Antonia Tolbert, et al., Plaintiffs, v.
18 Monsanto Company; et al., Defendants, Civil
19 Action No. CV-01-C-1407-S, now pending in
20 the U.S. District Court for Northern
21 District of Alabama, Southern Division, that
22 the foregoing 131 typewritten pages contains
23 a true and accurate transcription of the

Page 131

1 to them, right?

2 A. To the extent that any regulations
3 existed, and you had the knowledge that this
4 was going on. Once again, you get into the
5 ability to detect and know what's going on
6 there.

7 But back in the '60s and '70s
8 and beforehand, the ability to detect PCBs,
9 the levels we can detect them at today,
10 there's orders of magnitude difference.

11 MR. DAVIS: That's all the
12 questions I have. Thank
13 you.

14
15 (The deposition of CRAIG BRANCHFIELD, was
16 concluded at approximately 12:50 p.m., on
17 April 25, 2003.)
18
19
20
21
22
23

Page 133

1 examination of said witnesses by counsel for
2 the parties set out herein.

3 I further certify that I am neither of
4 kin nor of counsel to the parties to said
5 cause, nor in any manner interested in the
6 results thereof.

7 This 1st day of May, 2003.
8
9
10
11

12 Laura E. Durden
13 Notary Public
14 State of Alabama at Large
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34 (Pages 130 to 133)

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