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A-013-A\$50 SEP 1979 oBre 1 SUPERIOR COURT OF NEW JERSEY LAW DIVISION - MORRIS COUNTY 2 DOCKET NO. 1-42857-74 P.W. 3 JOSEPH CAPUTO and ALDO CAPUTO, RAPHIC TRANSCRIPT 4 OP Plaintif TRIAL JAN, 14 1980 5 Hephen Webouncen 6 IV TOWNSHIP OF CHESTER 7 and PLANNING BOARD) PLACE: MORRIS COUPPY COURTHOUSE. of Township of Chester, MORRISTOWN, NEW JERSEY (8 REC'D. APPELLATE DIVISION Defendants. 9 DATES December 6, 1977 10 BEFORE: HON. ROBERT MUIR, JR., AJSC APR 5 11 TRANSCRIPT ORDERED BY: PHILIP LINDEMAN, II, ESQ 12 ARA 2 A : 13 FILED . MESSRS. AMBROSE & MONICA APPELLATE DIVISION PHILIP LINDEMAN, II. ESO BY: 14 COURSEL FOR PLAINTIFFS 1979 б APR 15 MESSRS. MCCARTER & ENGLISH ALFRED FERGUSON, ESQ., 6 BYA 16 NICHOLAS C. ENGLISH, ESQ. COUNSEL FOR DEFENDANTS. 17 18 19 20 21 22 23 24 25 **Di Benedetto Reporting Service 1** Washington Avenue P. O. Box 1282R ML000694S Morristown, N.J. 07960

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INDEX Witness Direct Cross Redirect THOMAS LLOYD MALCOLM KASLER EXALDIZS Description Iden. Evid. Page D-24-a, h, 1, j, k, 1 MADS D-34 natural resource inventory

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MR. ENGLISH: Mr. Lloyd, take the stand.

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THE COURT: He's still under oath. THOMAS LLOYD, recalled. CONTINUED DIRECT EXAMINATION BY MR. ENGLISH:

Mr. Lloyd, I have on the easel here the maps Q. we were talking about when you were on the stand the other day, which are, for the record, D-24-h for Identification, which deals with the erodibility of soils; D-24-i for Identification, which covers soil limitations for light buildings with cellars; D-24-j for Identification, which is soil limitations for septic tanks; and D-24-k for Identification, which is combined soil limitations. Could you tell us, please, first, the process by which those maps and, perhaps, or presumably the other maps which are a part of the Upper Raritan Watershed natural resource inventory, the process by which those maps were prepared? First of all, what did you start with as a base map? I began by assembling the Å 19 soil survey maps, the individual soil survey maps for each of the three counties that are included in the watershed, Morris, Hunterdon and Somerset Counties.

And, where did you obtain these maps from? Q These were obtained from the individual Soil Conservation Service office for each county. Having assembled the maps, we integrated as best we could, integrated the

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aerial photographic survey sheets on a single mylar so as to make a complete base map. This was done by overlaying clear plastic mylar on the individual soil sheets and tracing. off the boundaries of each soil type within the three counties. At the same time, of course, a numerical code for each soil type was placed on the map. Having done this, prints were made of the mylar, and then individual suitability maps were developed on these prints and this was done by simply referring to the individual soils survey manuals, or what I had gotten from the individual soils survey office. In terms of the suitability for septic tanks, light buildings 12 with cellars, and agricultural suitability, a lot of other 13 soil maps, other soil maps that were prepared was simply a matter of referring to these manuals, identifying what 15 limitation the Soil Conservation Service recommended for a 16 particular soil type, and then simply coloring the map in one of three colors according to that classification.

18 Well, referring to these maps which are part Q 19 of the natural resource inventory, for example, D-24-h 20 for Identification, is the piece of paper which is the basis 21 of this map one of the prints from the mylar which you just 22 Not exactly. It's, what it redescribed? A 23 presents is an overlay--

> I'm not talking about the color. 0 I know, but the soil maps were first prepared on these

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prints that I just mentioned, and then these particular, this particular piece of paper, this base map was overlayed on top of the colored intermediate map and developed.

Q All right. So, you had, you had a base map printed from the mylar you described? A Right. In other words, I had two base maps really. I had a soil base map, and then the, that particular base map that is shown there, which is based on the U. S. G. S. topographic maps.

9 0 So, the, do I understand the boundaries of the 10 various colored sections, or portions of this map came from 11 the first base map you described, but the information result 12 ing in the kind of color you put on came from the second 13 base map? A From the soil base map, yes. 14 And, did you personally participate in the Q 15 process of transferring the data from the soils sheets and 16 other materials you obtained from the Soil Conservation 17 Service onto these maps? I did. A

18 Q Now, did you discuss with Mr. Carl Eby of the
 19 Soils Conservation Service your work in the preparation of
 20 these maps, which are part of the natural resource inventory?
 21 A Yes, I did.

Q And, tell us what kinds of matters you discussed
 with Mr. Eby in that connection? A We discussed
 general characteristics of individual soils, and different
 ways of grouping them, classifying them, that would be most

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useful for planning purposes.

Q Do the maps in the natural resource inventory, and specifically without limitation, the maps marked Exhibit D-24-h, i, j, and k for Identification, correctly set forth the methodology and factors which you discussed with Mr. Eby? A Yes, they do.

> MR. ENGLISH: If the Court please, I now offer into Evidence Exhibits, maps which are Exhibits D-24-h, i, j, and k for Identification, respectfully.

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NR. LINDEMAN: If your Honor please, my objection now is limited to this: At page 24 of Mr. Lloyd's report, and as he has testified thus far, he indicates that he has studied the geology, soils and hydrology of the upper watershed area, and at page 58 of the transcript of his depositions on April 15, 1976, we have that testimony of his about his knowledge of the soils and the geology. We've gone over this before, but the Court will recall that they're talking about the natural inventory report, and any comment of the witness as to the advisability of the pond, Mr. Lloyd testified at the bottom of page 58,"I have always testified in terms of the geology and

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soils. I would not be capable of expressing an opinion," and here again in particular you want to point out the advisability of very detailed specific studies." et cetera. So, I think it's reasonably clear from his testimony that he said that he is not capable of expressing an opinion on geology, soils, and that was general, and says as to the particular, that is geology and soils around the lake, he says that additional very detailed specific studies would be required. Now, I think that it's fair to say that the plaintiffs are at a disadvantage and that it is unfair, and improper, that the witness testify on anything having to do with the quality, condition or any expertise relating to soils and geology in the light of his statements. We were not able to pursue Mr. Lloyd on that subject. These depositions were taken on April 15, 1976, which was substantially after any of these reports were prepared, and that was at a time when he had apparently very considerable conversations with Mr. Eby and others about the condition of the soil, and I think that it is, therefore, improper. - The other objections that I have

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are clearly resolved as of now, but that one, I think, is not.

THE COURT: I think we have been through some of this before. The framework here---

(DISCUSSION OFF THE RECORD WITH CLERK.)

THE COURT: We have been through this business before with respect to what was being discussed here. You have, keep having reference to the soil on the stie, and even yesterday Mr. Bby said that the report of the S.C.S. would not be reliable for the specific site in question, and you know his answer is, you're saying it's a generalized answer. Also testified in terms of geology and soils. I would not be capable of expressing an opinion ... ". He's relying on the S.C.S. report, to the extent he relies on the S.C.S. report, I think he has a right to do that. That's what this whole problem boils down to now, and relates back to that opinion that I referred to the other day when we had the preliminary colloquy in the case vs. the Department of Schmoon Industries Health, M. J. 93, N. J. Super., where Judge Conford talks about reliance on hearsay. I think he has the right to rely on it.

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MR. LINDEMAN: Your Honor, in <u>Schampon</u> at page 283, the judge says, "The guide," that is, the guide that Mr. Wrthweigh, the witness used to talk about a whole series of tests to determine pollution from a smoke stack, he says, the Court says, "The guide was not relied upon or cited testimonially as proof of the truth of its contents, but merely as evidence of what Worthweight considered in arriving at his expert conclusions of violation of the code by complaint."

Now, I think that distinction is a very nice one, and I'm not sure that it's so real, but I defer to the Court on it. However, what the Court seems to be saying is that there's nothing in the guide that the witness is talking about to prove the truth of it, but he's just saying I relied on that as part of the authority to determine what is good, coming out of a smoke stack, and what's not good.

Mr. Lloyd, on the ther hand, or counsel through Mr. Lloyd, is offering these documents and his testimony to prove the truth of what he's saying, that the soil is erodible to a certain extent in various areas of Essex County.

I think there's a difference in but I understand the Court's concern about just what the effect of these maps may be, and the extent of Mr. Lloyd's testimony based upon them, but I go a little bit farther than that. I think I'm going beyond this immediate question. We're about to talk about soils. He has said what he did on page 58, said it at a prior place in his discovery, that he was acting as a technician, not as, didn't make verification of various things. I'm speaking particularly of page 19 of the transcript, when he talks about the preparation of a document called P-11 for Identification, says, "I acted as a technician, I suppose." Now, that coupled with his saying that, "I'm not an expert on geology and soils," and now coming forward with this, I think, shows that there are two different ways that he testified. No fault of his at that time, but I think that we are at a dis advantage.

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Now, these documents do talk about the character and condition of the soil, and while they may be properly identified for the purpose of introduction, I don't know that this witness

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should be permitted to testify from them, or there should be any testimony even from his report on the character and quality of the soils, and that's the basis of my objection.

THE COURT: I'm going to allow it. Allow it to be marked in Evidence. I think what Judge Conford says in the schamoon case is something that I can utilize as a base for allowing it to occur. You may be correct in that there is a more semantic difference than anything else in what Judge Conford is saying. However, it seems to me that expertise can be based upon other reports of a hearsay quality to reach a conclusion as long as the total truth of the documents relied upon are not predominantly relied upon, because if I look at the Rules of Evidence, when you talk about experts' opinions, I believe it's 53. It's 56, where if the witness is testifying as an expert, testimony of the witness in the form of opinions or inferences is limited to such opinions as the judge finds are based primarily on facts. The word, "primarily," I think, is certainly a key word. The explanation for it later on under, in the Rules, and also as the

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.. 0 explanation was developed in the report under New Jersey Supreme Court Committee on Evidence, March, 1963, would seem to indicate that there is a reason for allowing hearsay. There's a reference at page 108 in that report to Professor McCormack, and the quote is, "Professor McCormack has also urged that hearsay be permitted as a basis for expert testimony. He argues that the expert is a competent judge of the merits of the hearsay involved. 'If the statements are attested by the experts as the basis for judgment upon which he would act in the practice of his profession, it seems that they should ordinarily be a sufficient basis, even standing alone, for his direct expression, professional opinion on the stand, and this argument is reinforced when the opinion is founded not only upon such reports, but also in part upon the expert's first-hand observation, observation will usually enable the expert to evaluate the reliability of the statement." Then, it goes on and says, "Rule 56-2 adopts a middle position, somewhere between that which precludes you from relying on it at all, and Professor McCormack's by adopting the word

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"primarily."" It says. The intendment is to permit an expert to be corroborated, confirmed, or bolatered by hearsay, but not to rest exclusively or primarily on it." From that I would conclude that the Supreme Court report and the Rules adopt, it was to permit an expert to rely on hearsay. I know we can get into a very fine semantic discussion as to whether or not everything that Professor McCormack says is applicable here; everything the report says is applicable here; or whether precisely what Judge Conford says is applicable here. As I read Judge Conford, as I read the report on, of the Supreme Court Committee on Evidence, and it's dated March, 1963, I didn't say that before, and as I read the rule, I think it's permissible, and I'm going to allow it.

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MR. LINDEMAN: Your Honor, I do not argue now with the Court about this, and I do acknowledge, I think counsel did their job in giving the back up for these maps, but now I'm concerned about what Mr. Lloyd said in his testimony before, not on his testimony in this case, but in depositions, and I don't want to be in the position of waiving our objection on that

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THE COURT: That may viciate the weight to some extent, but I don't think under the circumstances the totality of the circumstances and the proofs that I have so far, that it procludes admissibility. I think it may slide to the other part of the scale. So, I'll allow them to be marked. I think, perhaps, they should be marked at this time. D-24-h, i, j, k and 1 marked in Evidence.

MR. ENGLISH: If the Court please, there's a handy remainder to urge on the record, may I observe with respect to your Honor's ruling admitting these Exhibits that we have a little different situation than I think was presented in the <u>Schemoon</u> case, in that here we had Mr. Eby, who's the individual responsible for the data and according to both Mr. Eby and Mr. Lloyd, these maps correctly transfer Mr. Eby's data to these maps.

THE COURT: Yes. That's what I said. The circumstances, didn't enumerate on it, but---MR. LINDEMAN: I concede that, your Honor.

THE COURT : Okay.

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14 1 MR. BNGLISH: While we're dealing 2 with maps, if the Court please, I will renew 3 the offer of exhibit D-24-a for Identification, 4 which is the 1961 land use map. 5 THE COURT: I don't recall, Mr. Linde-6 I don't think you objected at all to it. man. 7 MR. LINDEMAN: I don't know about that, 8 your Bonor. 9 THE COURT: All right. Let's mark that 10 in Evidence also. 11 (D-24-a, h, i, j, k and 1, maps, were 12 received and marked into Evidence.) 13 MR. ENGLISH: If the Court please, I 14 would like to get back to the general subject 15 of Mr. Lloyd's report, which was marked D-34 16 for Identification. 17 BY MR. ENGLISH: 18 Mr. Lloyd, I am being a little repetitious, Q. 19 but there's a foundation for what we're talking about today. 20 I think you testified last week that in the course of pre-21 paring your report, which is D-34 for Identification, you 22 relied on the data contained in the number of reports which 23 are the report of Jason M. Cortell & Associates, which is 24 Exhibit D-21 in Evidence? λ I did. 25 A water quality survey of the Upper Raritan Q .

Lloyd-direct 15 1 watershed for August and November, 1967, which is D-22 in 2 Evidence? A Yes. 3 0 Report on water quality studies of the Upper 4 Raritan watershed, May, 1968, to October, 1969, prepared by 5 the Academy of Natural Sciences which is D-23 in Evidence? 6 Yes. 7 Natar Quality Survey, 1972, of the Upper Rari-Q 8 tan Watershed, prepared by the Academy of Watural Sciences, 9 which is D-25 in Bvidence? Yes. 10 The Matural Resource Inventory, which is D-24 Q 11 in Evidence, and includes not only the text, but the maps which 12 is marked? Yes. 13 The series of reports by the Upper Raritan Q. 14 Watershed Association, which are D-26 in Evidence, D-27 in 15 Evidence, D-28 in Evidence, D-29 in Evidence, and D-30 in 16 Evidence? Yes. 17 Now, in addition to those materials, we have Q 18 just referred to, did you make some field studies of your own 19 in the course of preparing your report? I did. A 20 Will you tell us, please, when those studies Q 21 were made, and what they consisted of? ¥. In 22 July and September, 1977, I visited the Upper Raritan Water-23 shed, and in particular the Peapack watershed. 24 Peapack Brook watershed? 0 Å Peapack 25 Brook watershad, and performed aquatic biological studies at

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		report as the north branch of Peapack Brook. This is in
	. 3	the headwater region at Cooper Lane. I performed a study on
	4	Tiger Brook at Cooper Lane, and in Peapack Brook just upstream
and a second	5	from the Caputo tract on Fox Chase Road, and in the Town of
	6	Peapack, excuse me, yes, in the town of Peapack upstream from
	7	the severage treatment plant, and below the severage treat-
	8	ment plant at a point where the stream is very close to Route
	9	206, was one other station, was located just upstream from
	10	the confluence of Gladstone Brook.
	11	Q What was the general nature of the studies which
	12	you made at those locations? A I had re-
	13	viewed chemical and biological data that had been developed
	14	
	15	over the years, and I wanted to
	16	Q Excuse me. Was that data what is contained in
	17	these reports we just identified? A Yes. I
		wanted to, as best I could, verify some of the results, and in
	18	some cases see what changes may have occurred at different
	19	stations over the years.
	20	Q What, generally, were the results of those
•	21	studies which you performed?
•_	22	MR. LINDEMAN: I object, your Honor.
	23	The trial of this case was scheduled by the
	24	Court, July, August, to commence September 12,
·	25	'77, that was subsequently adjourned because of

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Court calendar problems. The witness now testified he has examined, verified these various areas around September 6, and closely, other times close to September 6, 1977. Our depositions were very substantially a year before that, but it's possible, of course, that expert witnesses might under certain circumstances have to verify their conclusions or whatever data may exist for the purpose of arriving at conclusions, but still this kind of a verification at this hour, I submit is improper, and any testimony that the witness may offer as to verifications of the situation as of September, 1977, and conclusions should not be allowed.

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THE COURT: Mr. Lindeman, let me say this to you: The Rules very carefully, and the cases, very carefully point out to me that if I think that a party is going to be prejudiced by something that he, is new in a report by an expert, that I have at my disposal the right to say, okay, I'll give you the time to explore the matter by further discovery. If this is so, I don't know whether it is, but if, you're going to have to explain to me why. If it is so

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prejudicial to you as to be something that you need time for further discovery, I'll give it to you. The way this case has been going, I see no reason why we can't do that. I won't exclude, however, and I'll tell you the same thing, if the same thing happens to you and Mr. Ferguson says the same thing, alternatively I'll give you the opportunity for exploration on it in the form of discovery, because I think that that's the way the cases read, and that's the way it should be done. But what is so prejudicial about,--all right, he did it in July of 1977, and he did it in September of '77, as I understand--

MR. LINDEMAN: Yes.

THE COURT: Now, what is so prejudicial about these studies that ---

MR. LINDEMAN: Judge Muir, I don't know, I really don't. I don't know.

THE COURT : Okay.

MR. LINDEMAN: I would rather think it isn't prejudicial or might not be prejudicial. I don't think there's much in the whole report that's prejudicial, but that, you know, anything could be. Sometimes you're surprised when you

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get a determination from a Court on evidence that is interpreted in a way that you never really suspected, so, therefore, I'm objecting. I think I have the right to object. Of course I do. No question about that.

THE COURT: I'm giving you the right that the Rules give you. Do you want to exercise that right?

MR. LINDEMAN: I don't think I want to exercise that right, Judge Muir. I don't think this is a case where that consideration to an opposing party is called for. I think this is one of those cases where the testimony should be excluded because of the exigencies of time. because of the enormous costs of this kind of a suit, also because of the action which we believe is now being undertaken by the municipality to change its ordinance, and I'm expecting any day something is going to come through that's going to have to call for a lot more different testimony before this case is over. I fear that. I hope that it won't happen, but I fear that, and in this kind of thing, just continues this long, arduous case even longer, and it was unnecessary. I think that

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it simply should not be allowed. While our position will be equalized by permitting discovery, and the making of tests ourselves, that that isn't necessarily fair in the case at this time.

THE COURT: It just seems to me that you have the alternatives. I don't think it's a situation for saying all right, because we have come this far, and because there are some pressures, some pressures to move the case with some promptness after an extensive period of delay that we, you know, it's justification for saying, well, all right, just close this type of testimony out. I don't know whether the analogy is appropriate, but I remember for ten years they were building a bridge across the Monongahela River in Pittsburgh, and for ten years you could go part way across and then you had to stop. They got within 20 feet of the shoreline, and somebody said there was something wrong with the engineering test, and they didn't want to go any further. Somebody else said the heck with it, 20 years, let's go on. Fortunately, they made the test and they found out that the tests were in error, and

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the remaining part would have sunk into the mud if they had not made the tests. Okay. I don't know whether it's an appropriate analogy. Having come this far, having done all this, I think it's appropriate to allow this type of testimony, but if you feel that you need the time to explore it before Mr. Lloyd is allowed to testify, I will give it to you, so I, therefore, say to you I will not close the door on the testimony, but I will leave you other options. Do you wish to exercise it?

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I take it by a shaking of your head---MR. LINDEMAN: I don't want to appear---THE COURT: I realize I'm putting you in a box. I think it's, I think I have to do it. I'm not trying to be unkind to you, Mr. Linde-man. I think I have to decide these things as I see the appropriate application of the cases, and the rules, and I recognize that I'm putting you in a box. If you say you want it---

MR. LINDEMAN: At the moment, I don't know. Maybe we better see what the witness has to say. I don't know, your Honor. Maybe I don't understand fully. Is it that we will wait even now---

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THE COURT: What I'm saying is, now, do you want to stop and take discovery of the gentleman? Do whatever you have to do.

MR. LINDEMAN: What I would prefer to do, if it would be all right with the Court, is to let the witness testify so that we can hear it, and then if we feel that we need some time to prepare rebuttal testimony--

THE COURT: Fine. I'll allow that also. Okay. Proceed.

MR. LINDEMAN: I'm not waiving my objection, am I, your Honor?

THE COURT: No.

MR. LINDEMAN: Okay.

THE COURT: I would say to you that very infrequently am I in the position of having, being able to do that, and normally a trial judge does not want to do that because it means stopping the case, and not getting it concluded. But, I just think that in this case it's something that's appropriate. It would be unfair to you to make you live with it, but I think the course of action is, should be palatable to the defendants and is palatable to me, that you can hear it, and then make a determination as to

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whether you want time to prepare a rebuttal

to it. Okay. Go ahead, Mr. English.

3 BY MR. ENGLISH:

4 Q Mr. Lloyd, can you tell us what were the re-5 sults of these aquatic biological studies that you performed 6 in July and September of 1977? A I found that the north branch of Peapack Brook at Cooper Lane appeared to 8 be in a healthy biological condition, although it did show 9 signs of organic enrichment. This appeared to be a result 10 of seepage from the area drained by the stream drains in 11 Chester, the east branch of Peapack Brook is a small tribu-12 tary that drains predominantly wooded land between Cooper 13 Lane and Cliffwood Road. These two locations are portrayed 14 or depicted on map number 2, land use, that is on page 28.

15 Page 28 of your report, which is D-34 for Q 16 Identification? That's correct. I did not Å 17 examine this particular stream. I relied on data that were 18 provided by Jason M. Cortell & Associates, and from their data 19 indicated that the nutrient load in the stream as measured 20 by nitrogen and phosphorus values was low. Tiger Brook was 21 investigated by myself at Cooper Lane. This stream drains 22 the Chester Springs Shopping area, and a portion of Chester, 23 and it contained accumulations of sediment. It was what I 24 considered a, still in a healthy biological condition, but 25 the aquatic animal diversity and abundance or bio-mass ---

1 bio-mass is a measure of the, in weight, of animal life present 2 in a stream--was lower than the north branch, which was a 3 stream similar in size to Tiger Brook. Downstream at Fox 4 Chase Road, there was evidence of rather heavy siltation in 5 the stream. There was a small in-stream impoundment which 6 had a very heavy load of silt in it, accumulation of perhaps 7 a foot, depended on exactly where you were in the impoundment 8 The stream was healthy in terms of the aquatic plants and 9 animals that were present although their relative abundance 10 indicated that that particular station showed rather heavy 11 organic enrichment as a result of nutrients in the stream. 12 Further down at the Gill St. Bernard School, which is located 13 just above the confluence of Gladstone Brook, there was evi-14 dence of, again, of fairly heavy organic enrichment, comparison 15 of the aquatic plants and animals at this station that were 16 present in 1967, as described by the Academy of Natural 17 Sciences, indicated there were certain groups such as the 18 blue-gree algae, midge , larvae, and black flies . These 19 are aquatic insects, were more abundant in 1977, than they were 20 in 1967, and these particular groups are recognized as indi-21 cators of organic enrichment, and typically when you find lar-22 ger numbers of them, you can expect that the stream is more 23 heavily enriched by nutrients, or it has a higher organic 24 load in it.

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If I can-interrupt you at that point. Is there

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1 any relationship between what you described as "enrichment" 2 or "higher enrichment," and water guality? A Very 3 much so, because water quality can be measured in many dif-4 ferent ways. Enrichment refers to nutrients such as phos-5 phorus and nitrogen, that make up the chemical quality of the 6 water. Typically, when one refers to enriched conditions, he 7 is referring to levels of nitrogen and phosphorus in the stream. 8 However, it can also, enrichment can also be described strictly 9 in biological terms and when one does this, one is talking 10 about the, basically about the different kinds of plants and 11 animals that are present and their relative abundance.

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12 Q Well, does what you have said have any re-13 lationship to the potability of water, suitability for human 14 consumption? λ Very often if a stream is enriched, 15 or has a high nutrient load in it, coliform : bacteria and 16 other classic measurements of the potability of water will 17 be high. It, in itself, does not tell you whether or not there 18 is any specific toxic chemicals in it that might be harmful 19 to man.

> THE COURT: If it has high coliform bacteria count, it would be less potable than--THE WITNESS: It would require additional treatment.

24QI'm afraid I interrupted you, Mr. Lloyd. You25were telling us about the result of your studies and we got

downstream as far as Gill St. Bernard School at the confluence
 at Gladstone Brook. If you would finish your discussion of that
 station, will you keep on moving downstream, please?
 A Well, the lower two stations that I looked at were
 just upstream from the Peapack-Gladstone sewerage treatment
 plant. This is, first station number 14, that appears on page

8 of my report .---

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THE COURT: What page did you say? THE WITNESS: 14.

MR. LINDEMAN: Page 14?

THE WITNESS: Yes.

12 It's Peapack Brook at Holland Road in Peapack. At A 13 this station I found a healthy stream, but, again, rather 14 heavy organic enrichment, and it appeared to be more heavily 15 enriched based on the biological, my biological observations 16 than what had been indicated in previous years by the Academy 17 of Natural Sciences. The lowermost station that I specifically 18 looked at was immediately downstream of the Peapack-Gladstone 19 severage treatment plant, where the stream flows adjacent to 20 Route 206, and there ---

21 Is that station number 15 as shown on the map Q 22 on page 8 of your report? A Yes. 23 Please continue. At that sta-Q A 24 tion I found that the stream was in what would be termed 25 either a semi-healthy or polluted condition as indicated by

¹ the aquatic plants and animals that were present there. This
² condition was considerably worse than had been previously
³ described by the Academy of Natural Sciences, in 1967 I believe,
⁴ and I think it was also investigated in 1968. The stream was
⁵ judged to be healthy. In other words, the water quality was
⁶ much better in 1967, 1968, than in 1977. --

THE COURT: The A.M.S. made a study in '67?

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THE WITNESS: Yes.

10 A For example, they found trout surviving in the stream
11 right down below the waste water treatment plant. I found
12 no trout whatsoever. They found something like 15 different
13 groups of aquatic insects, and I believe I only found three,
14 so there was very significant reduction in species diversity
15 which indicates that a quality of water had declined quite
16 considerably.

17 Q Do you have any information as to whether or not
 18 the, there were any changes in the Peapack-Gladstone severage
 19 treatment plant during the interval of time between the studies
 20 made by the Academy and your own studies? A I in 21 quired of the Upper Raritan Watershed Association, and evi 22 dentally has--

MR. LINDEMAN: Hold it, Mr. Lloyd. Excuse me. I object. I object to any testimony of the witness in--

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THE COURT: Sustained.

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2 Q Are the detailed results of your aquatic biological studies set forth in Appendix B in your report, which is D-34 for Identification? A Yes, they are.

Can you tell the Court how or why the aquatic Q 7 biology is an indication of water quality in a stream? 8 Aquatic plants and animals can be used or have been А 9 very often used as a means of measuring water quality. Water 10 chemistry has also been used. The aquatic plants and animals 11 are very useful for, useful as parameters to measure water 12 quality simply because they're in the stream at all times, 13 whereas the chemical results reflect conditions only at that 14 exact instant of time that you took, excuse me. They only 15 reflect conditions when you actually took the sample. Aquatic 16 plants and animals have a natural monitoring system. 17

> THE COURT: Do you know what time of year the Academy of Natural Sciences did their '67 report when they found the trout there?

> > THE WITNESS: Summer.

THE COURT: Is it possible that if that stream is stocked by the State of New Jersey that those trout would have been found there as a result of the stocking, but not found there as a result of being there at the time

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you made it, because they either, one, no longer stocked, or, well, they no longer stock?

THE WITNESS: They stock, but I suspect it was more a result of water quality mainly; because, the chemical data I did look at indicated that ammonia concentrations, for example, were in excess of what typically trout find unsatisfactory.

THE COURT: I'm a fisherman. I don't know that I have any expertise, but I do know they stock in that area, a good number for the size of the stream.

¹³ Q Mr. Lloyd, do I understand that in preparing
 ¹⁴ your report and in reaching your conclusions you considered
 ¹⁵ the data contained in these reports by Cortell, the Watershed
 ¹⁶ Association, and the Academy of Natural Sciences, your own
 ¹⁷ aquatic biological surveys in July and September of 1977, and
 ¹⁸ the natural resource inventory which you prepared?
 ¹⁹ A I did.

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 Q
 As a result of all that, did you reach certain

 21
 conclusions as to the water quality in Peapack Brook?

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 MR. LINDEMAN: As of when?

 23
 MR. ENGLISH: As of 1977.

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 A
 In summary, I did. I--

MR. ENGLISH: That answers my question.

1 Will you tell us your conclusions as to the 2 conditions which you found in Peapack Brook when you com-3 pleted your studies this fall? I found that A 4 the stream, although still healthy in the upper reaches of it. 5 still in reasonably good condition, it was very heavily enriched 6 and it was semi-healthy or polluted at the lower end below the 7 waste water treatment plant.

8 Q Were you able to reach any conclusions as to the 9 water quality or health of Peapack Brook in 1977, as compared 10 with what the studies, eight or ten years previously had dis-11 closed? In a number of, those locations, 12 in fact, all three of the locations that were surveyed in '67 13 and '68, were in better condition, better biological condition 14 at that time than they are today.

15 Just, again, which are the three locations Ø. 16 that you refer to? A Tiger Brook, and the 17 Peapack Brook at Gill St. Bernard School, and downstream from 18 the waste water treatment plant. I might add there is a 19 fourth, and that one was the station on Holland Road in Peapack. 20 But, essentially, all four of them showed less enrichment 21 in '67 and '68 than they did in '77.

22QDo you have an opinion as to what are the23causes or probable causes in the changes in water quality in24Peapeck Brook which appear to have taken place during the25last eight or ten years?A

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2	Q Yes. A Yes, I do. I feel that
3	sediment and nutrients from on-site septic systems have been
4	responsible for most of the degradation, sediment, particularly
5	in Tiger Brook and immediately downstream from Peapack Brook
6	from the confluence of Tiger Brook.
7	Q Where does the sediment come from?
8	A I can tell you where some comes from. I couldn't
9	tell you where all of it comes from. I noticed that at
10	MR. LINDEMAN: Excuse me. I object.
11	Before this question is answered, this is un-
12	orthodox I concede, but I wonder if we might
13	determine whether or not this evidence is going
14	to come from Mrs. Ashmun's statement about her
15	reporting orally to the witness
16	THE COURT: Her trip up Tiger Brook?
17	MR. LINDEMAN: Right. Because if it is,
18 19	I would object
	THE COURT: Mr. English?
20	MR. ENGLISH: Well, at the moment the
21	objection was made, the witness, I thought, was
22	about to state his own observations.
23	THE COURT: Why don't I let him answer
24	it, and we'll deal with it.
25	MR. ENGLISH: It may be a combination,

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I don't know.

2 What I was referring to was on page 19 of the report. 3 It's a picture of sediment, or, excuse me, it's a picture 4 of the eroded condition of the head wall at the outfall of the 5 pipe which contains severage and storm water run-off from the 6 Chester Springs Shopping Center, and also on page 20, figure 7 5, there's a picture of silt immediately downstream. That 8 picture was taken approximately 30 feet downstream from the out-9 fall, and then ---10 Let me interrupt you. Who took the pictures 0 11 which are incorporated in your report, Mr. Lloyd?

I did.

Q And, were they taken in the summer of 1977? September of 1977.

15 Q Directing your attention to figure 5 on page 20. 16 I think you said was a picture taken 30 feet or so below the 17 outfall from Chester Springs. Can you describe what that 18 picture shows in terms of the sediment? On the Å 19 right bank facing downstream, it shows an accumulation of 20 silt, as I recall was approximately a foot deep, right along 21 the right bank there.

22 Q Is that what looks to my untutored eye like a
 23 sand bar on the end of the board? A That's
 24 correct. And, as I mentioned, the picture doesn't show
 25 particularly well the extent of erosion that has occurred around

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the head wall. It is considerable, and the land above the outfall, or rather the land between the outfall and the parking lot surrounding that red brick building that's apparent in figures three and four had been seeded with barley cover crop to try to protect the soil, but there was evidence of erosion all through there. Little gulleys and rivulets.

7 Well, I think you were addressing yourself to Q 8 my general question as to what, in your opinion, were the 9 causes of the changes in Peapack Brook over the eight or ten_ 10 year period prior to your last studies, and you mentioned 11 sediment, and I think, have you anything more to say about 12 sediment? A Well, just that it's very diffi-13 cult to define exactly where it comes from. I attempted to 14 estimate roughly how many new people that had come into the 15 watershed, and I did this by comparing the number of houses 16 that are portrayed on the 1954 U. S. Geological Survey topo-17 graphic map with the number of new houses that appeared on 18 the 1970 photo revision topographic map of the same area, and 19 multiplied that number by 3.2, which is a standard planning 20 number for the number of people in a single-family home, and 21 estimated that roughly 500 people had moved into that portion 22 of the watershed, and were primarily responsible for the 23 increased enrichment in sedimentation. In driving through 24 the watershed on almost all the roads, it did not appear that 25 there had been any significant changes in agriculture. In

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fact, what agriculture there was in terms of cultivated fields was generally confined to Gladstone Brook watershed.

MR. LINDEMAN: Your Honor, having heard that testimony, now, really, the only way to raise the objection was to hear it. The witness has testified as to the impact of development upon the quality of streams. Without regard to whatever other infirmities the evidence may have, he did testify previously that he was not going to testify, that he did not have any expertise, was not retained for the purpose of the impact of--

THE COURT: What page? MR. LINDEMAN: This is page 6. THE COURT: Of the deposition? MR. LINDEMAN: Of the deposition of Mr. Lloyd, "impact of any development on natural resource inventory." Then it, then on page 28, 29, again questions are framed about a development, particular reference is made to the Caputo development, but the witness says at line 20, page 29, "I think both the water quality data and natural, data included in the natural resource inventory would be useful guidance." Then he says at page 29, line 6, "In terms of

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the natural resource inventory, on-site studies would have to be made, studies related to the soils, geology, and so forth. In terms of the water quality, the existing conditions of Peapack Brook should certainly be established."

Now, that's the thing, of course, about which I'm so very much concerned, and particularly with regard to the thing I referred to in my objection before, and this testimony now. He says that he counted the houses, estimated the number of additional people, and then uses that as one of the bases upon which he concludes that the effect on the streams was caused by those additional people. I think that that is directly contrary or certainly contrary in spirit, more than spirit, it's directly contrary to what he said in his depositions. He was not going to testify about the impact of development upon the quality of the streams or the natural resource inventory, not only not knowing about the soils and geology, but that was not what he was doing. He just reported on the inventory itself, and now he's done it, and it's not his fault but I think it's improper, your Honor, very, very seriously

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prejudicial to us.

THE COURT: Mr. Perguson?

MR. FERGUSON: The statement made on the bottom of page 6 was that he refers to"Mr. Lloyd may be retained for that purpose if and when we get data sufficient to enable such an evaluation to be made." At that time, Mr. Lloyd had not, in fact, been retained for the purpose Mr. Lindeman states, for the purpose of preparing this report, and about which Mr. Lloyd is testifying now. What happened in the interim, and we must keep in mind that this deposition was taken in April of 1976, was that we've had a year and a half of additional data in the form of these documents which have been marked D-25 to D-30. For instance, D-30 is the summer of 1976, prepared by the Upper Raritan Watershed Association; fall and winter of '75, '76, D-29; D-28 is the summer of '75; and D-27 was the spring of '75. D-26 is 1974, north branch of the Raritan. These documents referred to the testing that was done during that time, but they weren't physically available until later on in 1976. They had to be collated, printed, and bound. They didn't become available until

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after this deposition. As soon as they were available, we shipped them to Mr. Ambrose, and I would have to check the letter which is not here to see whether we just gave him notice of the reports, or sent him a copy. These data were shipped and at that time I indicated to Mr. Ambrose we would be using these during the trial. Now, when the case was postponed from May in 1977, this data was all complete. We sent them to Mr. Lloyd, and asked him at that time to do this report. We told Mr. Ambrose that he was going to do this report, and that he would be using this newly available data. That, frankly, is the reason why this particular report could not have been done prior to the deposition.

MR. LINDEMAN: Your Honor, if my memory serves me, and I did examine each letter in Mr. Ambrose's file in some detail, there were reports that were sent to Mr. Ambrose, and we do know that we have those, but that doesn't change the objection that I have as to what the direction of the witness' testimony was going to be. We did receive the documents, certain of those documents, if not all of them, which

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talked about the natural resource inventory, condition of the streams, but I submit that's different from testifying about the cause and impact of development upon whatever that biomass may have been.

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THE COURT: Well, I know if there are two areas here, then I think, that are significant, one is the logical conclusion that if none of us were here, the water quality of all of our streams would not even be a problem. It's our moving in that causes the water quality in all streams--. I think it's a logical inference. You're talking about a plan here of ten years. I think it's reasonable just upon the figures that I have from the, that were stipulated on growth in the area, that there had been changes. These changes have got to have occurred from man-made sources. All right. That's one point.

The second point is if, if it is an area of problem, I'll give you an opportunity to explore it. Given all those reports, accepting Mr. Ferguson's representation, and I know you're in a difficult posture there because you were not the man who was doing, dealing with it be-

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fore, but the reports were given, the reports were made available, collated, <u>et cotera</u>, and then Mr. Lloyd could utilize them. If that causes a problem, again, I'll give you time to resolve it, but I really don't think that it's a basis for valid, I won't say valid, an objection is sustainable at this time.

MR. FERGUSON: I appreciate Mr. Lindeman's problem.

THE COURT: I do, too. I don't want to say that I don't understand or appreciate the difficulty, but Mr. Ferguson is representing that he forwarded these to your predecessor in this case, which is what he felt obligated to do as a result of what's on page 6 of Mr. Lloyd's deposition.

MR. LINDEMAN: There are two problems here. One is the fact that I happened to be a different lawyer, and the fact what Mr. Lloyd may have said in his depositions. I don't think that, I don't want there to be any suggestion in this case that the defendant is at a disadvantage because I happen to be a replacing lawyer.

THE COURT: I'm not suggesting that he

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MR. LINDEMAN: No, but these documents were received. I know they were received. I can't pinpoint them exactly, but I considered the correspondence with which they were sent, and it's true. Mr. Ferguson did do that. We have all of those documents, but that isn't really the only--THE COURT: I understand your objection extends further to, there's nothing from Mr. Lloyd to say that he was going to testify in this area. MR. LINDEMAN: That's it. THE COURT: That, again, I'll allow you time to deal with that problem if you feel it's appropriate. MR. FERGUSON: Just to have it fully stated, had we gone to trial in May, we would have done the same thing through another witness whose deposition was also taken, and who did testify in general, from general principles, you know, to the same general conclusion, and that is on the record. We did shift, as it were, to include this additional data with Mr.

Lloyd because of all kinds of problems about

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availability, things you run; into when you

experts--

THE COURT: Anything further? Mr. English.

BY MR. ENGLISH:

6 I think, Mr. Lloyd, at the time the objection Q was made, you were trying to tell us some of the reasons which 8 leads you to the opinion or the conclusion that, to explain, 9 to whatever opinion you have as to the reasons for the 10 changes in water quality which have occurred in Peapack Brook 11 over the last eight or ten years. I don't know whether you 12 finished your answer, but if you haven't ---

13 In performing the study, I, as I said, I reviewed the 14 data, the existing chemical and biological data. I then went 15 out in the field and looked at these six locations, and I 16 noticed the sediment in the field, enrichment, and I was 17 curious as to whether or not, perhaps one could correlate the 18 existence of sediment and nutrients, so forth, in general 19 with natural and man-made features in the watershed. So, I 20 then looked at, prepared a slope map that is portrayed on 21 page 32 of my report, and I also prepared two maps, one suit-22 ability for on-site sewerage disposal systems, which is map 23 number 4 on page 34, and the other is on page 35, and it's 24 entitled, "Erodibility of Soils," and I prepared these maps, 25 using the same general methods that were used to prepare the

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original natural resource inventory, and then compared the
 results of my water quality investigation with what was apparant
 on these maps in terms of slopes and the locations of houses
 in relation to their suitability, in relation to the soils
 on which they were located for suitability for septic tanks.

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6 In reaching your conclusions, what, if any, Q 7 consideration did you give to the size of Peapack Brook, size 8 of the stream? I found that Peapack Brook A 9 is a very small high gradient stream. The stream, which 10 varies from approximately eight feet in the stream headwaters 11 at a few inches deep, to 30 or 40 feet at the lower end of the 12 stream. The deepest point is, in September, was two and a 13 half feet. The point is that it's a very small stream, and 14 there is a small amount of water in it for dilution of various 15 pollutants, whatever other purpose the water might be used 16 for.

Q Now, as a result of your studies, do you have an opinion as to the appropriate intensity of land use in the Peapack Brook watershed?

> MR. LINDEMAN: I object, your Honor. I think the witness is not qualified for that in addition to my other objections that I made before.

THE COURT: I think it's rather broad for his expertise.

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	MR. ENGLISH: If the Court please, my
2	recollection is that when Mr. Lloyd was on the
3	stand last week, he indicated that an area of
4	his special expertise was on related quality
5	water-land use.
6	THE COURT: Well, without going back
7	it's been several days. Did you testify to that?
8	THE WITNESS: I did, as I recall, yes.
9	THE COURT: I'll allow it.
10	MR. LINDEMAN: Same objection, your
11	Honor.
12	THE COURT: All right.
13	MR. ENGLISH: You want the question
14	read back?
15	THE WITNESS: Yes, could you do that
16	please?
17	THE COURT: As a result of your studies.
18	do you have an opinion as to the land use in
19	the watershed?
20	A In general, I, because the slopes are moderately to
21	fairly steep because of the erodibility of soils, and the small
22	size of the stream, it does not appear that this stream is
23	suitable for widespread intensive development, and what I mean
24	by "intensive" is, intensive is typical medium density, 30 per
25	cent-per-acre-type density, or higher.
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Lloyd-direct 44 1 THE COURT: How much? 2 THE WITNESS: Thirty per cent per--3 thirty dwelling units per acre. 4 MR. LINDEMAN: Sorry. 5 Q Thirty persons or thirty dwelling units? 6 Thirty persons per acre, something like that. In other A 7 words--8 THE COURT: 3.2 persons per household? 9 THE WITNESS: What I'm getting at is it's 10 not suitable for garden apartments and so forth. 11 If it's suitable for any development, it's 12 suitable for single-family residential type 13 low-density development. 14 MR. LINDEMAN: Your Honor, may we have 15 that read back. That 30 persons per acre, I 16 would like to, may we have that again, please? 17 (REPORTER COMPLIES.) 18 Mr. Lloyd, in the, in your last answer, do you Q 19 mean that no development of, at all, of the density you indi-20 cated, perhaps eight or ten dwelling units per acre is appro-21 priate, or did you mean that the entire watershed should not 22 be paved with that kind of developments? 23 Well, I simply mean that there would be severe environ-24 mental degradation with an intensity of eight, ten dwelling 25 units per acre, and even more so if the entire watershed was

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covered at that density or even higher.

2 Do you, when you say it's not suitable for 0 3 that, for development of that density, do you have any, are 4 you indicating the scale of such development? Are you saying 5 there shouldn't be any at all, or there could be to a limited 6 amount, or what? A I suppose there could be 7 to a limited amount, but exactly to what level, I'm not pre-8 pared to say at this point. 9 Now, as a result of your studies, do you --Q 10 MR. LINDEMAN: Excuse me, Mr. English. 11 Hold on half a second, please. 12 Thanks. 13 Q Mr. Lloyd, as a result of your studies, do you 14 have an opinion as to whether or not Peapack Brook is capable 15 of assimilating much additional pollution? 16 I do not believe it does. A 17 Do you have an opinion as to whether additional Ø 18 development in the Peapack Brook watershed would be reasonably 19 likely to result in additional pollution of the stream? 20 Based on the limited amount of development that appears A 21 to have occurred in the past, I would say yes, the future 22 development would have an impact. 23 MR. ENGLISH: I now offer in Evidence 24 Mr. Lloyd's report which is exhibit D-34 for 25 Identification.

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MR. LINDEMAN: Your Honor, the objection,

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I think, to this report applies, that I made to that for Mr., for General Whipple applies even more to this one. The Court, I think, can see even in thumbing through it they are vast, vast. There are very extensive parts.

THE COURT: Extensive what?

MR. LINDEMAN: Parts of it to which the witness did not testify, and which would probably be excludable, and I cite as an example page 44, this is just an example, and I think it would not be unfair to us if the Court even were to look at the last full paragraph where the witness refers to pollution and the Caputo tract, and 2,000-acre drainage, and a number of other factors, things to which he did not testify.

THE COURT: I think it would be appropriate to exclude from the report any reference to construction on the Caputo tract since you did not get into it in your case.

MR. ENGLISH: I agree.

MR. LINDEMAN: That, of course, doesn't constitute the entirety of my objection. I mean, the reasons for it. It's that kind of

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thing, but there are, I think, very substantial other things as well that the witness didn't testify to. I do concede, however, I think that his having testified to certain maps and drawings would make it reasonable that they be offered, perhaps admitted into Evidence, because they would clarify his testimony. I'm thinking particularly of the showing of the stations along the various water courses on page 8, and certain of the photographs to which he referred. The conclusions in his Appendix B, which relate to the studies in 1977, I think, he has testified to fairly extensively, and there isn't any need for them. He testified to it. He didn't testify as extensively as appears here, I should say, but he did testify to the condition in all of these water courses, but the rest of it, there's so much of it that he didn't testify to, and would not even be appropriate. Another example is page 36, where he talks about the Parker and Edneyville soils, and then he refers them to the Caputo tract, the Court has excluded any reference to the Caputo tract, but this whole page talks about the soils from their classi-

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.. 0.. fication, Edneyville, Parker, Califon, and clearly he is, he's really quoting from---THE COURT: D-1. In Evidence. MR. LINDEMAN: Yes. 48

THE COURT: So what harm does it do? MR. LINDEMAN: Well, the harm that it does is that unless it's an exact quote, he can't be---

THE COURT: I'm going to look at the S. C. S. on the soil, in reading over that page, you were talking about it. My recollection is that at least as to the Edneyville soil, which we talked about so extensively yesterday, and I caused a rereading about it during the course of the day, that statement that he makes about the Edneyville series consists of, is pretty close to being accurate. I don't profess to say it's word for word, but is pretty close to being accurate because in rereading it yesterday, as well as the Califon series, I did that after Court because I had a curiosity relating to an area that I'm familiar with, from that standpoint it's clear to me that something that he's done there is relying upon what is, he reflects in his bibliography, and

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which he refers to even in the text, U.S.D.A. I agree that some of the things he has not covered. I have no intention of attempting to interpolate, or figure out, or make part of my findings those schedules that are attached where the readings are taken at the stations. I won't try to read them, the conclusions. I think in all other respects I'll allow it to be marked into Evidence.

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MR. LINDEMAN: May I just raise this question, your Honor, on conclusions thatyour Honor just referred to, page 43, last sentence of the first full paragraph.

> THE COURT: First full paragraph? MR. LINDEMAN: Middle.

THE COURT: The one that starts with "Diminished water qualities...."

MR. LINDEMAN: Last sentence, which is, "Seepage from poorly functioning systems, very likely to be responsible for much of the nutrient load in the Watershed north of Peapack." We had, we had some reference to that before when he tried to testify about the sewerage treatment plant. That kind of sentence that crops up from time to time is objection1

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able, we submit, and---

THE COURT: Mr. Eby told us that yesterday when he compared residential areas, or was it--

MR. ENGLISH: General Whipple.

THE COURT: When he compared the agricultural areas and the residential areas, talking about the effect of nutrients on the stream. His expertise covered that.

MR. LINDEMAN: Yes. That may very well be, but here this witness is drawing a conclusion. He's not just citing data that comes from some other source. He's saying, maybe it's just corroboration. I don't know it's exactly the same thing that General Whipple said but--

THE COURT: It's not exactly what he said. It's a little bit at variance. Given the areas of expertise of the two men, that's a weight evaluation for me. I understand what you're saying, Mr. Lindeman, but I see nothing so objectionable to you, to exclude the report, to say that the report should be excluded. The weight I give it is something else again. I think I'll allow it to be marked. All right.

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In Evidence.

(D-34, report, was received and marked into Evidence.)

THE COURT: Anything further?

MR. ENGLISH: You may cross-examine.

THE COURT: Why don't we take until

five after.

(RECESS OBSERVED.)

MR. ENGLISH: If the Court please, may I ask the witness one question I overlooked on his direct examination?

THE COURT: All right.

13 CONTINUED DIRECT EXAMINATION BY MR. ENGLISH:

14 0 Mr. Lloyd, as a land use planner, what function 15 or value would you give to a natural resource inventory? 16 Well, the natural resource inventory can be used to A 17 determine where houses, for example, can be constructed at 18 the least economic cost in terms of just the construction 19 cost. They can also indicate where the least cost might be 20 in terms of environmental impact; environmental inventories 21 can be used for, by those interested in other specific objec-22 tives such as defining or trying to conserve prime agricultural 23 land, for example. You must identify the land, and inventories 24 typically do include a study of agricultural suitability as 25 well as other areas that might be used for recreational purposes,

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water supply, great number of different uses.

2 Nould it also have in addition to houses and Q 3 things you mentioned, would it also have a bearing upon com-4 mericial or industrial development? А Yes. 5 For example, industries typically like to locate on flat land 6 just because they have such, many of them are built with great 7 surface area, and the cost of constructions on steep slopes is 8 much greater than flat land.

9 MR. ENGLISH: You may cross-examine, 10 Mr. Lindeman.

11 CROSS-EXAMINATION BY MR. LINDEMAN:

¹² û Mr. Lloyd, you testified that your determination
¹³ of the, one of the causes of pollution, or of change in the,
¹⁴ in the character of the Pespack Brook was the addition of
¹⁵ houses, and from the time of 1967 or '68, or '69, until 1970;
¹⁶ is that correct? A That's correct.

And, you ascertained that by counting them on
And, you ascertained that by counting them on
a photographic map; is that correct? A I
counted them on the U. S. Geological Survey topographic map
that was dated 1954, and 1970. In other words, there was,
it's the same map that has been photo revised.

22 Q And, what did you use then for 1977 to-23 A I didn't use, I just used those two sources, and in24 creased the factor by about 30 per cent, just to present a
25 rather conservative estimate.

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Q. But you had no record of what the natural resource inventory was as of about 1954, did you?

The earliest was '61, which I did have records for, or '60, excuse me. It was the aerial photographs that were used in the 1961 land use map.

6 I mean, were there any, do you have any No. Q data as to what the condition of these water courses was from the point of view of the aquatic and plant biology as of 1954? No.

So, the latest time you had was 1960? Q A The earliest time.

Sorry. The earliest was 1960? Q. 13 The earliest time was 1967, for water quality we're A 14 talking about now.

15 Right. Therefore, there is nothing in this Q 16 watershed area that you have which you could use as a base to 17 determine the effect of construction on the quality of the 18 water, of these streams; isn't that so? Which А 19 watershed?

20 I'm speaking of the Peapack Brook, Tiger Brook--Q 21 A Peapack Brook.

22 Right. Q. The only information A 23 I had was 1960 land use, and the water quality data that were 24 done in 1967.

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Am I not correct that you testified that you

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1 attribute the change in whatever respect there was a change **2**: of the condition of the water courses we're talking about in 3 1977 to the increase in the houses because, increase in the 4 houses? A That's correct. . 5 **O** And, there were 3.2 more people, 3.2 people 6 per house? I used that as a factor, as I 7 said increased the, very specifically I counted the new houses 8 between '54 and '70 that were apparent on the topographic 9 maps, and the number came out to something like 87. I multi-10 plied this by 3.2 and that comes out to less than 300, in order 11 to present a very conservative estimate. I just added an addi-12 tional 200. In addition to that, in the brief I read that ---13 In the brief that you read did you say? Q 14 A I don't know what you call it specifically, but, yeah, 15 I think it's the preliminary brief. I can't identify the 16 exact, it was a brief that was presented by McCarter & English. 17 Anyway, in the beginning of that, there was reference to the 18 census from 1950 to 1960, and throughout the 18-plus square 19 mile area of the township there was a population of, increase 20 of approximately 2,000 people during that period. The Peapack 21 Brook watershed represents 6.5 square miles, or less than a 22 third of that area, so that I was saying that the population 23 increase was 500 or 25 per cent of the total area for geographic 24 area of less than one-third, which seems fairly reasonable. 25 MR.- LINDEMAN: I move that the testimony

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of Mr. Lloyd on the question of the effect of the increase in population from 1970 to 1977 in the water courses that we're talking about be stricken for the reason that the witness now shows that he really had no evidence at all as to the actual houses or anything even close to it, except rough estimates of percentages of increase of people, generally, but he did not know how many houses there were in this watershed area, and that's what he testified to. It appears now that his testimony is that he had a record of the increase in the number of houses, and counted the number of houses from 1954 to 1970, and from that he just made projections, but I think that, that did not appear very clearly in his direct examination. I, therefore, move it be stricken.

THE COURT: Stricken, no. Evaluated by the Court as the trier of the facts, yes. That's the purpose of cross-examination. Go ahead, Mr. Lindeman.

Q Now, you state there was a change of varying proportions, and in varying respects, in the stream, Peapack Brook, particularly from 1970, '69 until 1977. It is possible, is it not, that whatever change occurred was all the result

	Lloyd-cross 56
*ι "υ	1 of the construction of the Chester Springs Shopping Center;
¢	is that not so? A No. It's not so.
	3 Q Will you tell us A For example,
	4 the water guality below, in the lowermost station below the
•	5 severage treatment plant was degraded to a much greater
	extent between '67 and '77, than the water above in Peepack
	Brook. In other words, there is at least one additional fac-
ł	B I I I I I I I I I I I I I I I I I I I
,	tor in the watershed that has caused degradation of water
1	guality other than the shopping center.
	2 That sewerage treatment plant existed in 1968,
	didn't it? A I think it was, I think so.
	Q Either not A Might have
I	3 been under construction or brand new, whatever. I don't
1	4 know exactly when it was constructed.
1	5 Q I didn't ask you when it was constructed. I'm
1	6 talking about the fact that it existed. For example, page
1	7 15 of your report, Mr. Lloyd, you say, last paragraph,
1	8 "Biological studies performed by the A.N.S.P," that's
1	9 the Fhiladelphia Academy, is it not?
2	0 A Yes.
2	1 Q "in 1963, show that water quality downstre
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2	from the sewerage treatment plant was adequate to support
2	aost forms of aquatic life," et cetera. How, I raise that,
	I refer to that sontence, not for the facts contained in it,
-	but only for reference to the severage treatment plant. The

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Lloyd-	-cross 57
indica	tes, does it not, that it existed as of that time?
А	Yes.
	Q And, it's fair to say that you don't know how
long b	efore 1968 it did exist, whether it was
A	I do not know.
	Q Nor under what specifications or controls it may
have t	een constructed? A No, I don't know.
	Q Nor what kind, what area it served?
Α	No, not specifically; the specific service area I do
not kr	low.
	THE COURT: Excuse me a minute.
	All right, Mr. Lindeman. I'm sorry.
	Q You have some familiarity with the, with severage
treat	ment plants in respect of what they do, what their
funct	ion is, do you not? A Some, yes.
	Q You have familiarity with their existence in the
course	a of your work, do you not? A I do.
•	Q And, you are aware, aren't you, that there's
been a	a significant improvement in, advance in the technology
of the	a construction of sewerage treatment plants between
1968,	at least, and now? A I'm guite certain
that	the same general technology was available in '68 as pre-
sent	now. I think the main difference is phosphate removal;
	kample, so-calledtertiery treatment, where they simply
	in, introduce aluminum into the sewerage effluent and

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1	Lloyd-cross 58 precipitate out, suspended matter that contains the phos-
2	phorus. That technology was present long before 1968.
3	Q Are you saying, therefore, there's no difference
4	in the technology in the construction of severage treatment
5	plants between
6	THE WITNESS: In general?
7	MR. LINDEMAN: Yes.
8	A I'm sure there's been some. There's new techniques
9	and so forth that have been developed.
10	Q Have you ever had occasion to make a test of aqua-
11	tic life, quality and condition of streams, natural resource
12	inventory on the streams above and below a severage treatment
13	plant other than the one in question? A Many
14	times.
15	Q Have you not observed in a number of those
16	occasions differences in the quality of the streams above
17	and below the plant? A Certainly.
18	Q Now, have there also not been differences de-
19	pending upon what the severage treatment plant does, and
20	how many installations they may serve? A In my
21	experience, I think one of the biggest factors is just pure
22	dilution. If a sewerage treatment plant is, that handles
23	normal domestic waste, doesn't contain toxic substances, is
24	discharged into a small stream, the impact of that is con-
25	siderably greater than the same sort of effluent discharged

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into a stream where the dilution might be one to ten or one to fifty, or one to one hundred. In other words, a big stream as opposed to a small stream.

Q And, the quality and condition of the technology and construction of the sewerage treatment plant has no bearing upon what effect it may have-- A It can help, but, and depending on what degree of preventive measures are taken, that will determine the impact. What I'm getting at is, for example, chlorine. There is, chlorine is a very toxic substance that's used to kill pathogins in the sewerage. It is technically possible to add de-chlorinating facilities at the end of the sewerage treatment process. This is, I don't believe, this is not done too often. Typically, the sewerage effluent is chlorinated and discharged directly into the stream.

16 What experience, if any, do you have on the 0 17 operation of a spray irrigation system? A None. 18 What measurements, if any, did you take of the 0 19 width and depth of the stream, Peapack Brook in particular, 20 that you referred to in your direct examination? You spoke 21 about it as being several inches in some places, many feet 22 in lower regions. Α I merely estimated it 23 looking at the stream and, occasionally, walking. My stride 24 is approximately a little bit over a yard, and occasionally 25 in some instances I physically walked the distance to see

	Lloyd-cross 60
1	how many strides it took.
2	Q Is this the entire length of the Peapack
3	Brook in the area that you spoke aboutsorry.
4	A Width.
5	Q Did you walk the entire length of the stream,
6	the watershed area that you're talking about?
7	A No, no. I looked at the stream at those six specific
8	sites.
9	2 And, it was at those places from which you
10	made your, you gave your testimony as to the depth of the
11	stream; is that right? A Depth, yes. I did
12	not have a yardstick or anything that I physically stuck in
13	the water. I just estimated whether, you know, it was a couple
14	of inches or a foot or whatever.
15	Q What is the difference, if any, this is a
16	broad guestion, I don't know how else to ask it, in the aquatic
17	life that would exist in a stream such as the Peapack Brook
18	in the places that you testified in 1977, between the winter
19	and the summer, apart from the excuse me, apart from the
20	problem of ice? A Yes. If I understand your
21	guestion correctly, which is what biological differences would
22	you expect to see on a
23	Q Yes. Is there any difference in the quantity
24	of the animal life because of the different season?
25	A To a certain extent. I think, I know that a biologist,

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when he looks at a stream, he has to take the season of the year into consideration. In general, the diversity of species and diversity of general groups remains quite constant during the course of a year. There are specific times, June, for example, when a lot of the May flies and a lot of other insects go from the larves-nymphal forms to the adult form, and this is what you have to take into consideration.

Q But, insofar as counting and identifying aquatic life, winter time, dead of winter, can a comparison be made of whatever may be found, for example in December and January of any year, with that which may have been found in July and September?

> THE WITNESS: For what purpose? MR. LINDEMAN: For the purpose that you testified to.

THE WITNESS: For the purpose of evaluating the water quality?

MR. LINDEMAN: For the purpose of counting and identifying the life that may be in the stream.

A I looked at the stream to evaluate water qualities, and I would say, yes, you can examine a stream in the winter, taking into consideration that you may have reduced growth in certain groups, such as the algae, and determine whether or not the stream is healthy, or semi-healthy, or polluted.

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MR. LINDEMAN: Go ahead. Sorry.

A The other tool biologists use is to look at different streams within an area so you get as broad a range as possible of different biological conditions.

Q Well, you didn't do that in this case, did you, just studied the Peapack Brook? A I looked at Tiger Brook in the north branch, and I looked at Peapack Brook over, at different locations, which did represent different chemical conditions.

10 Q Assuming that one were to look at those same
 11 places today, can a proper comparison be made of the con 12 dition today as opposed to September, and verify the,
 13 whatever observations may have been made in September and
 14 July? A You can go into the stream today and
 15 determine the degree of enrichment of it.

Q Those are the nutrients in the stream? A Based on nutrients, and also, you could go in and simply look at the sediment, for example, condition of the bottom, stream bottom.

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 Q
 You could see the sediment and the nutrients.

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 What about the animal life, apart from fish?
 A It's

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 there.

23 Q It's still there, not in larvae or- 24 A That's what I look at. That's exactly what aquatic
 25 biologists concern themselves with, the aquatic nymphs and

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larvae as well as the aquatic plants in the stream. They, aquatic biologists are very often ignorant of the specific characteristics of the adults for example, because in their little world, the adults are of lesser value in terms of trying to judge the condition of a particular stream.

Q Now, you testified on direct examination that the Peapack Brook was healthy above the treatment plant, didn't you? A I did.

Q And, it was polluted below. A To be specific, in my report, I believe I say that it's healthy, heavily enriched above, and semi-healthy or polluted below.

	Q	Was	it	not	heavily	enriched	28	of	about	1967,	
·		-			· .						
*69?		λ		Whe	re 7						

Q Above. A Above? I think, if I recall correctly, and I have to refer to the report, I believe the report said healthy, enriched above.

Q As opposed to heavily enriched? A As opposed to heavily, yes.

19 Now, you, can you tell us if in this watershed Q 20 area, under 30 people living per acre in the area would be 21 satisfactory in your opinion? No, I don't A 22 think it would. I think the whole point is that given the 23 natural characteristics of this watershed, its slopes and 24 its soils, and so forth, a vast amount of damage could be 25 done if houses were improperly constructed or located at a

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density of five houses. I mean one house per acre, at very low density.

Now, Mr. Lloyd, you show in your report at page
 1, that you were retained by Chester Township to investigate
 water quality in Peapack Brook. When were you so retained?
 Was it prior to the taking of your depositions on April 15,
 '76? A Yes. Exquse me. Prior to my deposition
 in '56--'76, I was just asked to simply report on the natural
 resources inventory. It was not until 1977 that I was asked
 to specifically look at Peapack Brook.

Q When in 1977 was that? A It was the summer.

Q On, when you say that you were retained to investigate water quality in Peapack Brook, is that the same thing as saying to furnish a natural resource inventory?

> object to the question because I think it is incomplete. I assume counsel is referring to page 1 of Exhibit D-34 in Evidence, which reads, quote, "Chester Township has retained the services of Mr. Thomas Lloyd to investigate water quality in Peapack Brook in relation to the natural and man-made features of the watershed."

MR. ENGLISH: If the Court please, I

MR. LINDEMAN: Right.

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65 1 Was that the same as furnishing a natural re-0 2 source inventory? No, no. A 3 It's different? Q A It's a part. 4 It could be used as a part of the natural resource inventory. 5 Q You mean the resource inventory is a part of the 6 investigation; is that what you're saying? A My 7 study, resource inventory is obviously a very general term. 8 I mean, classic resource, natural resource inventory includes 9 an investigation of geology, topography, climate, soils, 10 vegetation, hydrology. Many of these things, in fact, were 11 investigated in this study. 12 Including the soils and the hydrology? Q 13 They were re-mapped and the hydrology there were, A 14 hydrology, again, is a very broad study, and there were 15 certain things that I did do. 16 Going to page 2 of D-34 in Evidence, second 0 17 paragraph, you state that land use was then investigated 18 with particular reference to the nature and location of 19 development that has occurred since 1967. Geology, topography, 20 soils and hydrology were studied because of their importance 21 and the amount of pollution that flows or seeps into streams. That was all done since July of 1967; is that correct? 22 23 A Yes. 24 The maps that you refer to in the sentence im-Q.

25 mediately succeeding that, of course, previously had been

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prepared, hadn't they? A Maps of land use, topography, so forth, that sentence?

Q Right. A The land use map was provided by the Upper Raritan Watershed Association, and then I subsequently checked that in the field.

Q Is that D-24-a that you were referring to a little earlier? A No. It's been introduced as Evidence. I don't know what the exhibit is. It's the map that Mrs. Ashmun might have provided the Court.

10 Q The other maps all the other 24, D-24 maps
 11 had previously been prepared, were they not, before--

A These maps in my report are new maps. They're not just
 copies of those maps. They were, they were not made by simply
 overlaying--

Q Okay. The maps that are D-24 were made before; the maps, however, that appear in D-34 are new since July of 1977? A That's correct.

18 Q Did you prepare these maps personally?
 19 A I prepared the draft and the criteria. I did not
 20 personally color in the maps.

Q The photographs that appear on page 18, 19,
 20, 21, and so on, obviously look very different in the winter
 time, wouldn't they, that goes without saying?

24 A Yes.

Q

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Do you know whether any part of that water

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freezes up in weather such as we have today?

A Today, I would doubt it. As a matter of fact, I noticed on the way in that none of the streams were frozen.

Q Do you know whether any of the streams such as this does freeze after a continued spell of cold weather? A What happens in streams like this is you do find ice in pools under extremely cold conditions, you can have almost all of the whole stream frozen. This is a very high-graded stream, takes very cold water, weather to---

10QCan you tell us, Mr. Lloyd, what you mean by11"intensive residential development" as you use it in the last12paragraph on page 2 of D-347A13referring to was development greater than single-family14residential development.

¹⁵ Q Had you discussed the content of your report
 ¹⁶ before it was put in final form with counsel or any of your
 ¹⁷ colleagues? A I had provided them with a pre ¹⁸ liminary one page, preliminary report that was one page long.
 ¹⁹ Q You didn't have any particular discussion about
 ²⁰ "intensive residential development" though, did you?

A In defining it?

Q

Yes.

A No.

23 Q At page 16 of your report, you state in the
 24 last paragraph, "Biological studies performed by the Phila 25 delphia Academy in 1968 show that water quality downstream

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from the sewerage treatment plant was adequate to support most forms of aquatic life, including trout," <u>et catera</u>. Can you tell us what the source of that is, of that statement? Or, is that just a conclusion of yours?

A It was a conclusion simply based on the results of that study. I don't think I have it right in front of me.

Q You don't know whether the study said that as such or whether that--- A The study, as I recall, said that the stream was healthy, enriched, and went on to cite the 12, specifically the 12 different groups of aquatic insects and other invertebrates that were found at that station, and these represented all of the major groups of aquatic organism that you would expect to find in a stream like that.

Q Page 24 of D-34, you state, "to help determine where the substances come from." You're referring to the types of pollution affecting Peapack Brook?

A Right.

Q

19 Q "The geology, topography, soils and hydrology 20 of the upper watershed area were investigated and compared 21 with water quality data." Now, investigating the geology, you 22 studied the report that was referred to by Mr. Eby yester-23 day, that is to say, the Soils Conservation--you were not 24 here? A Geology? 25

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I didn't

Yes. Did you do that?

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refer to the Soil Conservation Service data.

Q What did you do in studying the geology? A I looked at the original natural resource inventory. I also examined reports by Joseph Ward, report entitled, "Report of Environmental Geology Overview, Proposed Property Development, Chester Township, New Jersey," and in addition to that, well, in the field, I looked at rock outcrops just in general to determine whether or not my map seemed to be accurate, and, in fact, it was at that time that I discovered that my geology map, inventory was probably not accurate.

12 Q Is that the extent of your investigation of the
 13 geology or is there anything more? A Yeah.
 14 It was not a detailed geological survey by any means.

Q Now, the topography. What did you do to study that? A The topography, these were slopes, were defined on the, using the U. S. Geological Survey topographic maps.

19QYou didn't do any measurements yourself, of20course, did you?AWell, you simply determine21the slope from the maps. I mean I didn't go out in the22field and measure the slopes.

23QHow about the soils, what did you do to investi-24gate the soils?A25developed from the Morris County Soil Survey. A soils map

	Lloyd-cross 70
1	that portrayed all the different soil types in the watershed
2	was obtained from the Upper Raritan Watershed Association,
3	and then the copies of the maps were made and the soils were
4	classified according to the Soil Conservation Service criteria
5	for septic tank suitability. The map that, amap number 5,
6	which was entitled, "Erodibility," was developed directly
7	from the Soil Conservation Service, soil types. This included
8	a consideration of slope and K-Factor.
9	Q Is that it? A Yes.
10	Q Did you do this all by yourself, or did you
11	have others helping you? A I had others help-
12	ing me.
13	Q Who? Can you tell us? A A man
14	named Mr. Merriam helped me with the soils work.
15	Q Is he an expert or a technician?
16	A He is, he works on a part-time basis for Betz: En-
17	vironmental Engineers, and he is a soils specialist with
18	them. The graphics themselves were done by a landscape
19	architecture firm entitled, called Andew Hogan & Asso-
20	ciates.
21	Q Any others? A I had some help,
22	merely just mechanically going through the, all the different
23	reports in preparing Appendix A, which is the tables of
24	water quality data.
25	
	Q Anything else? A No.

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1 Q Now, about hydrology. What is hydrology?
 2 A Hydrology is the study of water and the way it's
 3 used here is to investigate water flow, some of the physi 4 cal characteristics of Peapack Brook.

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Q Do you use any literature to assist you in the study of the hydrology? A I used, yes, some. It's referenced in the report.

Q Part of some of those texts, part of your bibliography? A Yes.

10QDid you have any study to do of texts, of those11texts that are in the bibliography?A12don't understand.

Q Did you study the texts? Did you have to read
them, or was it just looking at charts, or what?
A I read them in the past, and they were techniques
and so forth that had been described. I read them before,
and I referred to tables and so forth.

18 Q How long after your taking of the tests in
 19 September of 1977, was it that you commenced the writing
 20 of this report? Approximately. A I think
 21 I started in October. It was a long process.

Well, between September, then, and the commence ment of the writing, were you collating the material, study ing it, putting it together? A Yes.

And, this was with the assistance of other

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people, individuals? A They pretty much finished by then. I mean, I wrote the thing myself. That's one reason why it took so long.

Q But at least between, what was it, September 7th or thereabouts, that you made your second test, and October, you were putting the material together? A Yes. And, I had, it's hard to remember exactly what was done, when. But, certainly the, I was working on the water qualities in that period, and I think that, I guess the rough drafts of the maps had been completed by then, and it was a matter of just having the final graphics done and pictures, and so forth, taken. That was, I guess, done in October.

13 Q Do you have any computation of the number of
 14 hours that you personally spent in all of your work from
 15 July through the production of this document?

A I have it written down. I don't know offhand. It was 200. I don't know.

18 Q Something like 2007 A I'd have
19 to check. I kept a record of it.

20 Q Would you also find out, please, the number of 21 hours that were spent by your associates?

A I could give you, can give you a pretty good estimate.
 Merriam spent, I believe, a total of--

24QWhy don't you think about it, Mr. Lboyd, unless25you know it exactly now.AEighteen hours, I

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think.

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2 Merriam spent 18 hours? Q A Relping 3 me with the soils. Andrew Hogan spent 16 hours, and approxi-4 mately 12 hours were spent by, in collating, helping collate 5 the data. 6 Q Now, in studying any of the geology or the 7 soils, did you ever have occasion to examine any borings, 8 boring logs? No. A 9 0 Do you know--A I looked at 10 Joseph Ward's report, and that's the extent of it.

Did you use any of the data from the boring logs in any of your reports? A No.

Q Can you tell us why? A It was
 not, it did not appear to be, well, it just was not, I
 couldn't find anything particular that was useful for my
 report.

17 Q At page 29 of D-34, you state that, "Woodlands
18 represent nearly 50 per cent of the total acreage." This
19 is in the watershed area, is it not? A Yes.
20 That's, there's an inaccuracy there. It's closer to 40 per
21 cent. It was a typographical error.

22 Q Where does that figure come from, 40 or 50
 23 per cent? A This came from Planimeter, Inc.,
 24 P-1-a-n-i-m-a-t-a-r, I-n-c. The map that's portrayed as
 25 map 2 of this report.

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		Lloyd-cross					74
•	1	Q	Land use?		λ	Yes.	
	2	Q	Is that a pl	hotograph	or a-	••	r
	3	A That's	a photograph	of the	origin	al map the	it was pro-
	4	pared.					
69	5	Q	And, so, the	erefore,	the ca	lculation	Planimeter
	6	depends on, w	hether or not	t the fir	st map	is accura	te, first
	7	map from whic	h this was, i	this land	use p	icture was	s taken,
	8	was drawn by	you and your	associat	er, ve	sn't it?	
	9	A Yes, y	48.				
9 9	10	Q	In other wor	rds, you	didn't	use Plani	meter
FORM 2046	11	on the graph?		λ	No.		
07002	12	Q	Now, in the	next par	agraph	on page 2	29, under t
	13	heading, "Phy	sigraphy and	d Geology	," you	state th	at the Pea-
BAYONNE, N.J.	14	pack watershe	d is situate	d in two	physic	graphic p	rovinces,
6AD CO	15	Appalachian h	ighlands, an	d the Pie	daont,	and then	you say,
2 U 4	16	"A fault whic	h traverses	the wate	shed n	orth of G	ladstone
	17	separates the					•
	18		-		. We d	o underst	and, do we
	19		not, your B				
	20		to the Capu				-
	21		~	COURT			
i de la construcción de la constru La construcción de la construcción d La construcción de la construcción d	22	Q	As to the f			t. where	does that
	23		A CO CHO I		did I-	-	
	24	data appear?	Yes, where				THE ALLER
	25	Q for formation 2		•			
		information?	A ~	473 0 8 (1 6)	JULUG J	s the Jos	ahu ward
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	Lloyd-cross 75
1	report. It's referenced 1976.
2	Q Okay. Now, the rest of that paragraph, though
3	which goes to the top of page 31 comes from a report of an
4	A. W. Martin Associates, doesn't it? A Yes.
5	Q That's testimony of a witness who may or may
6	not be produced in this trial; is that correct?
7	MR. ENGLISH: I don't know if the wit-
8	ness knows who's going to be produced.
9	MR. LINDEMAN: I suppose that's correct
10	Q What is the "A. W. Martin Associates, 1976,"
11	that you refer to on page 31 of your report? A It's
12	consistent with the natural resource inventory, that state-
13	ment, but anyway, there was a report entitled, "Feasibility
14	of Froposed Spray Irrigation on the Caputo Tract, Chester
15	Township, Morris County." Fifth reference on page 46 of my
16	report.
17	Q That's the report of a prospective witness.
18	you know that or not know that? A I guess, I
19	don't know.
20	Q Going to page 36, that page contains definiti
21	of various kinds of soils. Is all of that taken from the
22	Soils Conservation Service report? A Yes.
23	Q Is it copied word for word, do you know?
24	A Just with minor modifications. I didn't, if it was
25	exactly word for word, it would have been quotes. It's ver

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.. 00 MR. LINDEMAN: There's a statement in the first paragraph about the Caputo tract. I assume, your Honor, that will be ignored? This does appear all through the whole report. The witness has a sentence that says, "The soils make up about 75 per cent of the Caputo tract." That's, of course, one of the things we objected to.

Q What is fragipan? A Pragipan can be a real problem with on-site sewerage disposal systems because what it is is a layer of sand and clay material at a sub-surface level that can become very hard and impermeable to the extent that it's like concrete.

Now, on page 37, you refer to Califon soil,
saying it has a "fragipan, that it causes a perched water
table, lateral seepage, and under these conditions on-site
sewerage disposal systems will not function properly." Where
did you, where does that appear? A That came
directly from the Soil Conservation Service.

Is it stated that way exactly? Ű 22 I can refer you to--says--A 23 What are you reading from? Page 19. Q A 24 Of what? Of the Soils Survey А Ù 25

of Morris County, New Jersey.

	Lloyd-cross 77
1	MR. LINDEMAN: Page 19?
2	MR. ENGLISH: Can we identify the docu-
3	ment the witness is referring to as being the
4	same as Exhibit D-1? D-38 it is in Evidence.
5	Referred to yesterday as D-1.
6	MR. LINDEMAN: Yes.
7	Q Where is this, page 19? A Yes,
8	the right column next to the last, end of the next to the last
9	paragraph before the small print.
0	THE COURT: It is D-1.
1	MR. LINDEMAN: It is D-1?
12	THE COURT: Yes.
3	THE WITNESS: "Seasonally a high perched
4	water table and lateral seepage "
5	MR. LINDEMAN: Hold it just one second,
6	please. Just trying to find this. Yes. Right.
7	Go ahead.
8	A Simply says, "Seasonally a high perched water table
9	and lateral seepage of water are the main limitations for
0	community development," referring to the Califon sories of
1	soils.
2	Q It does not say under these conditions on-site
3	sewerage disposal systems will not function properly; doesn't
4	say that, does it? In other words, that is editorializing
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25	a little bit, isn't it, Mr. Lloyd? A To the extent

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that if you have lateral seepage in a high perched water table septic tanks will not function properly.

Q How do you know that? A Because I have seen enough septic tank, or situations where the soils have been saturated, wet, and have caused problems. It's also the, straight out of, sorry, page 92 of the Soil Survey manual.

8 What does it say? Under the Q A 9 limitations for septic tank absorption fields for Califon 10 soils, it says, "Severe seasonal high water table perched 11 to depths of one-half foot to four feet lateral seepage above 12 ." That's for three different soils described as -fragioan 13 well, three different types of Califon soils.

> MR. LINDEMAN: Your Honor, for whatever effect it may have in this case, I move again that statement be stricken from this report because it constitutes an opinion. It does not appear as such in the report that the witness has referred to, and I think that this is one that doesn't really go to weight. This one is one where, this kind of thing is an opinion on the functioning of soils which is not taken in the right way from its source. Should have been word for word.

> > THE COURT: Let me ask you this:

1 , as it seems to be in the S. C. S. fragipan 2 Soils Survey, is an impermeable layer of soil. Is 3 it not a logical inference that water goes side-4 ways, and if water goes sideways, rather than 5 down, any septic system that's functioning above 6 a fragioan is going to run into that water? 7 MR. LINDEMAN: I don't know that's an 8 assumption that either of us can make. 9 THE COURT: I'm not so concerned with it 10 that I'm going to strike it. 11 MR. LINDEMAN: I understand the Court's 12 ruling then. It isn't a case, I don't object 13 because it's a matter of great concern, but 14 it's typical of conclusions that are drawn 15 that are not precise, and in this area where 16 the witness is not an expert, taking something 17 from an expert's document, this method of 18 editorializing, I submit, is improper. 19 MR. ENGLISH: If the Court please, for 20 the record all I heard the witness say in his 21 answer he observed these situations where 22 problems were caused---23 MR. LINDEMAN: He may have observed them, 24 but he's not an expert. This is not his field. 25 He's not a soils expert, or geologist.

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.. 0 THE COURT: Do you have to be an expert to testify as to what you have seen?

MR. LINDEMAN: I think so. I think you have to build these things, you have to have, you have to have experience with the, with what you're dealing with from the--

THE COURT: I think if you look at the Rules of Evidence, under <u>Rule</u> 56-1(a), "may be rationally based upon the perception of a witness if a witness is not testifying as an expert." I can testify a man is drunk by what I see. The same thing, I think, if you see it, you see it. You can tell what you saw. You have the right to draw conclusions from what you have seen. I think not, Mr. Lindeman. All right. Go ahead.

17 Going to the bottom of page 43, top of page 44, Q 18 is your statement that, 'In Gladstone a five foot impoundment 19 has been filled by sand, gravel and rubble; and off-channel 20 impoundment near Fox Chase Road was filled with silt during 21 the construction phase of the Chester Springs Shopping Center ." 22 That all comes, all of that comes from Mrs. Ashmun? 23 No. Perhaps the sentence is unclear. Perhaps it 24 should be, there should be instead of a semi-colon, should be 25 a period separating the five-foot impoundment from the

		Lloyd-cross 81
•	1	off-channel impoundment. The five-foot impoundment was one
	2	that I physically observed in Gladstone, and the, the dredgin
	3	out of the other impoundment was from what I heard from Mrs.
Atlan	4	Candice, I mean Mrs. Ashmun.
	5	MR. LINDEMAN: Yes.
	6	A The five-foot impoundment in Gladstone
	7	Q That you saw and the fact of the silt building
	8	up near Fox Chase Road during the construction phase of
	9	Chester Springs Shopping Center comes from Mrs. Ashmun; is
2046	10	that right? A Yes, but I didn't mean to imply
F 0R M 20	11	in the report that the impoundment in Gladstone filled up
. 20070	12	specifically as a result of the shopping center in Chester
- 	13	Springs. What I was trying to point out is that because
N N N N N N N N N N N N N N N N N N N	14	of the steepness of slope and so forth, gradients, steep
GAD CO	15	gradient of the stream sediment transported, deposition
P E	16	is a real problem in this stream.
	17	MR. LINDEMAN: Your Honor, I believe
	18	that that concludes my cross-examination, ex-
	19	cept for information about the number of hours
	20	that it took to perform this work from July
	21	until the report was completed.
	22	THE COURT: The only thing, Mr. Lloyd
	23	MR. FERGUSON: He can write us a letter
	24	and we can give Mr. Lindeman a copy.
	25	MR. LINDEMAN: Either way.

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THE COURT: Anything further?

MR. ENGLISH: Just a couple of questions,

if your Honor please.

REDIRECT EXAMINATION BY MR. ENGLISH:

Q Mr. Lloyd, early in the cross-examination you indicated that the water quality below, just below the Peapack-Gladstone sewerage treatment plant seemed to be worse in 1977 than it had been eight or ten years earlier?

A Yes.

¹⁰ Q Now, in the light of that observation, what,
 ¹¹ if anything, is indicated as to the necessity of maintaining
 ¹² water quality standards upstream from that severage treat ¹³ ment plant? A I think it's very important be ¹⁴ cause right now the stream is enriched, and it has fairly
 ¹⁵ high nutrient concentrations.

You mean below the severage plant? 0 17 Above. But still, it's in much, much better condition 18 than below the sewerage treatment plant, and right now it is 19 certainly helping to dilute the effluent from the severage 20 treatment plant, and this is a very positive factor. It's 21 terribly evident/you look at the chemical data because you 22 can see that within a relatively short distance the phosphate 23 concentrations begin to go down, and if the water quality 24 was poor immediately upstream from the sewerage treatment 25 plant, the quality of water flowing into the north branch of

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the Raritan would be worse in terms of higher nutrients because of what would happen is that the beneficial aquatic plants and animals in the stream would not be able to assimilate or begin to break down and assimilate the severage that was being introduced at Gladstone.

6 May I direct your attention to page 16 of your Q 7 report, which is D-34 in Evidence, and I believe Mr. Linde-8 man directed your attention to the last full paragraph be-9 ginning a little below the middle of that page, where it speaks 10 of the biological studies performed by the Academy of Natural 11 Sciences in 1968. Just for the record, are the results --12 MR. LINDEMAN: What page is this? 13 MR. ENGLISH: Sixteen. 14 Q Just for the record are the results of those 15 studies by the Academy contained in the report the Academy 16 prepared, which has been marked as Exhibit D-23 in Evidence? 17 Yes. 18 MR. ENGLISH: I have no further questions. 19 MR. LINDEMAN: No questions. 20 THE COURT: You may step down. Thank 21 you. 22 MR. LINDEMAN: Your Honor, may I have a 23 little time, a few days, perhaps more, to decide 24 this guestion as to what we're going to do? 25 THE COURT: You don't want to interrupt

the trial for it?

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MR. LINDEMAN: I don't think so.

THE COURT: All right. Let's break for lunch.

MR. FERGUSON: We have Mr. Kasler coming at 1:30. We can continue with him. I don't anticipate being terribly long. We're almost through.

MR. LINDEMAN: I had some questions -- not very many.

THE COURT: All right.

(LUNCHEON RECESS OBSERVED.)

MR. FERGUSON: Your Honor, this afternoon Mr. Kasler has returned. He's been previously sworn, and I anticipate asking a few questions, finishing up his testimony. Mr. Kasler.

 $\underline{M \land L \subseteq O \sqcup M} \quad \underline{K \land S \sqcup E R}, \qquad \text{recalled, resworn.}$ CONTINUED DIRECT EXAMINATION BY MR. PERGUSON:

Q Mr. Kasler, my recollection is that at the conclusion of your testimony the last time you were here, I was,
I asked you whether you had at my request examined the zoning
ordinance 76-12 to see what items or areas in that ordinance
should be looked at, or reviewed, or examined, whatever, in
light of the Municipal Land Use Law, and the decision of the

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Supreme Court to, in the Madison Township case, to zone for least-cost housing. I believe your answer was, you correct me if I'm wrong, yes, I had made such a request , and you looked at the ordinance; is that an accurate statement? А

Yes, sir, it is.

I would change that question just slightly, Ö and ask you to tell us those areas or items in the ordinance which you would recommend be looked at or re-evaluated in light of the Madison Township mandate to gone for leastcost housing, and not to tell us about those items in the ordinance which should be re-examined to, or changed to comply with the Municipal Land Use Law, and would you, as I've redirected that, the thrust of my question, would you tell us what you found in that ordinance and why?

15 There were several sections that I, issues I think I λ 16 had raised in concert with our discussions dealing effectively 17 with Sections 8.206 and 8.301. 8.206 placed a restriction of 18 300 dwelling units in total in the RM zone, and placed a 19 limitation of 150 dwelling units for any one particular 20 site. Not that I found the 300 units objectionable per se. 21 but I did believe that there might be certain inequities 22 created as a result of that, and that certainly lands within 23 the RM zone were, although permitted multiple-family dwellings, 24 might not be allowed to develop if, in fact, other entities 25 have developed first, and the same comment would hold to that

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section dealing with a 150 dwelling units for any one site as a limitation.

Q I take it, then, the thrust of your comment, then, about the 300-unit limitation is that with the limitation on it, it might prevent anything, one area from developing if another area developed first. Do I understand that correctly? A That's correct. I subsequently determined prior to that, to this discussion, in my opinion the 300-dwelling units was a reasonable amount of housing under the Fair Share study that I had undertaken. This did not speak necessarily to the, to the aspect of the Madison case which indicated that there should be, in fact, a greater amount of area zoned than actually might be built to allow for a reasonable amount of fair-share housing.

> THE COURT: Let me ask you this: Do you know whether the township made any investigation as to the ownership of these parcels before they zoned them? In other words, if they, if they, let's just take for a theoretical example, if I'm a very wealthy person, and obviously I want to have as much land around me as possible, and they zone my land for multiplefamily use, the likelihood of my willingness to devote it to that use is limited. All right. Did they take any investigation of this nature

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to determine who the land owners were, and the potential for that land falling onto the market for sale for the use proposed?

THE WITNESS: I can't speak specifically to the goning ordinance, but when we were undertaking the master plan aspect, which identified those same general areas, there were, as I had indicated in earlier testimony, a number of criteria that we utilized in determining what locations would be almost unique, if you will. We ultimately came down to about three or four general locations. We did not. as consultants to the Board, identify who owned the property, because that was immaterial, although the size of the property was important in terms of its potential for being developed. As far as I know, in the master plan process there was no determination as to ownership. But, as to the zoning ordinance itself, which I did not participate in, I can't answer that question.

A So, that represented one area that we had suggested might be re-considered by the Board, or should have been considered by the Board.

The second dealt-with the density of five units per

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acre. We did not object professionally to the density par se. Five units to the acre is a reasonable density for townshouses and garden apartments as a general mix, but the way the ordinance is structured, it would allow five units to the acre for garden apartments. It was our opinion that the townhouse density might be a little bit on the high side; garden apartment density, it might be on the low side. In any event, it should have been considered in the light of separate development as well as combined developments, Certainly, that should have been reconsidered.

12 Thirdly, there was a limitation in Section 8,301 13 which limited the number of bedrooms per acre; that is, 14 technically, you could have ten one-bedroom apartments, 15 or five two-bedroom apartments, or any combination 16 thereof, as long as the number of bedrooms did not exceed 17 that particular number. I thought this was really a 18 legal question, but it is one that I found objection-19 able in terms of it being an overly limiting method of 20 density calculation. It is one that has grown in popu-21 larity over the past few years, but in my opinion seems 22 to run contrary to the number of cases, particularly 23 the Glassboro case, which indicated that you could not 24 restrict the number of bedrooms, and that this might 25 place an undue limitation on the type of housing that was

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being constructed.

0 Wholly apart from what the <u>Glassboro</u> case may have said, do you feel the ten bedroom limitation should be re-examined in light of the Madison Township, and zoning for least-cost housing?

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Yes, it has the same practical effect. It places A certain limitations on not only the amount of housing that is to be built, but the actual spatial distribution of that housing, which, in effect, if you have ten onebedroom apartments, that has a certain economic value; if you have two-bedroom apartments, that has a different economic value. What is not really being regulated is the broad concept of housing units per acre, or people per acre, which is really part of what Madison speaks to.

Lastly, this wasn't within the framework of any specific section of the ordinance per se. but it really deals with the aspect of Madison which deals with smalllot goning. Madison doesn't only say that you must have multiple-family housing, but it also indicates that there's, there should be a variety of housing made available in the community. Madison and Mount Laurel both speak to small-lot, one-family homes, as one of the alternative types of housing; for the most part, the Chester ordinance is predominantly large-lot zoning with the multiplefamily zone included. While I was not in a position to

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judge whether, in fact, there should have been small singlefamily lots, other forms of housing, I thought it certainly should be something the community should consider in view of the other things that were also being considered.

Q Now, did you form any opinion as to what should happen when these four items are evaluated or re-addressed by the community? If so, will you tell us what that opinion is?

> THE WITNESS: Sorry. I didn't understand the question.

Q These four items which you just described, do you have an opinion substantively as to what should happen with respect to those items or limitations which you think should be re-examined? A I think they should be re-evaluated by the Planning Board, and the governing body of the community.

Q Do you now have independent judgment as to what should be the result of that process? A I don't think that I could specifically speak to a solution to it, no.

Q Mr. Kasler, I will state, and I'm sure Mr. Lindeman will correct me if I'm wrong, but I believe Lee Hobaugh, an expert planner who testified on behalf of the plaintiffs, testified as a result of his review of the master plan and zoning ordinance, the various standards applicable, including, I suppose, Madison Township and the Land Use Law

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¹ that, in his opinion, large-lot zoning in Chester Township is ² inconsistent with general welfare. I'd ask you to comment ³ upon that statement, and tell us whether you agree or dis-⁴ agree, and if so, why.

> MR. LINDEMAN: If your Honor please, I'm not sure I agree that he said that, but I don't object to the question. I don't know whether Mr. Hobaugh said it, if he did say it-THE COURT: Okay.

10 I don't agree with that statement. I think everything 11 in this world has got to be tempered and balanced, and a 12 community such as Chester, were the community so deemed to be 13 a developing community, and that's all they had was large-14 lot zoning, then yes, the public welfare and general good 15 probably would be hurt, but this is a community that is still 16 a rural community, has attempted to provide multiple-family 17 housing, perhaps other forms of housing in certain portions of 18 the community. It's a community that does not have public 19 water, public sewers, and in those, in that general context 20 large-lot zoning is consistent with the public welfare which 21 Mr. Hobaugh spoke to. It is also a form of directing develop-22 ment in the community to those areas where more intensive de-23 velopment should take place so that is, if you do have a five-24 acre zone, environmentally sensitive area, an area that should 25 not be built at this time, there should be another place where

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1 that he was doing? A Attempted to, yes. He consulted with you in what you were doing? Q A Yes.

4 Was it just the two of you who were working on Q 5 this master plan for Chester Township, or were there others 6 at Candueb & Fleissig? λ There were obviously other support facilities, such as drafting, typing and such, but as I recall as far as the planners, more supervisory personnel, I believe it was basically the two of us.

10 Did you have any, do you recall having examined 0 11 the Soil Conservation Service maps and data in the preparation 12 of the master plan? A I personally did not re-13 view that material. It was, I was aware of it. In fact, I 14 physically saw the maps. I know Mr. Hultgren was working 15 with it, but I did not particularly use it myself.

Q That was not something that you were working on? That's correct. A

18 In your report ---. Is that marked? I can't Q 19 remember.

MR. FERGUSON: Yes.

MR. LINDEMAN: D-19 in Evidence. 0 Do you have a copy of it? A Yes,

23 sir. I do.

24 In calculating the needs of multi-family dwell-Q 25 ings, and the various regions, you first used the figure that

Kasler-cross 94 1 is designated, "1970 low and moderate income housing need," 2 and that I think you stated came from governmental sources such 3 as the Bureau of Census, did you not, and Port Authority? 4 No. sir. 5 What were those? Q A The low and 6 moderate income housing --7 Community Affairs? Q --was based A 8 upon the Department of Community Affairs' study. 9 Yes. D. C. A. study, and do you recall if, Q 10 in that study, there was any definition of low and moderate 11 income in terms of the dollar amounts? A Yes, 12 gir. I believe there was. 13 Do you recall what they were? Q А I can 14 only give you a ball park estimate because I don't remember the 15 specific number, but I believe it was approximately \$5.600 16 or something of that magnitude for a family of four in 1970. 17 Q Now, 1980 projected multi-family housing need 18 is taken from the same survey, was it? A No, it 19 is not. 20 Where was that from? Q A Estimated 21 need was undertaken, was obtained from a study prepared by 22 Rutgers University, the authors of which were Franklin James 23 and James Hughes, study was entitled, "Modeling State Growth, 24 New Jersey, 1980," prepared by the Center for Urban Policy 25 Research, Rutgers, which in part was documented by the Depart-

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ment of Community Affairs.

The total isn't documented? Well, third column Q on page 5 in the report, of course, is the total of those 4 two, as to the 1980 projected need, what indication is there that that's low-cost, low and moderate income need? The method that was utilized basically is indicated, it did not speak to income per se. It spoke to multiplefamily housing.

9 So, it could be---Q Ä In this par-10 ticular instance, it speaks to a broader range than just 11 low and moderate income housing, but what we attempted to do, 12 because the Madison case now doesn't speak to just low and 13 moderate income housing, but least-cost housing, is that we have 14 translated multiple-family housing to be one form of housing 15 which would be synonymous with least-cost housing.

16 Are you sure that Madison Township only calls Q 17 for least cost, doesn't speak of moderate at all? 18 It does speak, it speaks in a generic sense, but it Å 19 recognizes the fact that the market place is not building 20 housing for that income strata, and I think the resulting 21 opinion was that they're really talking about the least amount, 22 well, it's interpretive as to what least-cost housing is. But, 23 I have interpreted least cost to mean cost of the least amount 24 of money within the framework of the community itself. It is 25 not to build a 100-story high-rise building in Chester, but

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.. CO... something that would be compatible with the community.

² Q As to ---. I really interrupted your answer.
 ³ Have you finished as to the determination of the character
 ⁴ of the 1980 need? You say that was general, and it concluded
 ⁵ least, moderate, and any other kind of multiple dwelling--

A Speaks to multiple dwellings, that's correct. It does
 7 not speak to an income category.

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 1970 and 1975, which you deducted from the
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 1980 housing need was taken from building permits, correct?
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12 Q Isn't it fair to say that of all the multiple 13 family housing built under those permits, that none of it could
 14 fairly be characterized as least-cost housing, or to satisfy
 15 the least-cost housing need? A I couldn't
 16 agree with that.

17 Q What study, if any, did you make to determine 18 what that construction was? A There's no, no known 19 information per se as to the actual rental values or ownership 20 values of that housing that's been built. It is generally 21 accepted that multiple-family housing is a fairly high density 22 form of housing as opposed to other forms of housing, as 23 opposed to one-family houses on five acres or on three acres. 24 It is a fact today, though, that new multiple-Q 25 family dwelling construction results in what is normally

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characterized as high rentals for the prospective tenants, doesn't it, just as a general population, especially in the Morris County area? A That is not limited to Morris County, but your question is correct in that just about everywhere in the State right now housing costs are extremely high. What we're attempting to measure is that area which is being constructed, unassisted, that is, without governmental assistance, which will meet the lowest income strata, whatever that income may very well be.

10 I realize that it isn't just Morris County. Q. 11 Only one of your categories is Morris County alone. 12 But, you have a five-county region, Morris County, and Class 4 13 and Class 3. I'm speaking about those four regions of the 14 construction that was done there. It is fair to say that, 15 well, it is correct that you did not make any study of the 16 nature of the multi-family dwelling that was done, that was 17 constructed; is that so? Ä That's correct. 18 And, you don't know, therefore, if any of it was Q 19 low or moderate-income housing? A My own 20 general knowledge would be that probably, probably 95 per cent 21 or more of it would not qualify under low, moderate income 22 housing. 23 Now, going to Table 2, where you have percen-Q

tages of employment of the residents of Chester Township compared to the others employed in the region--

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THE COURT: What page is this?

MR. LINDEMAN: Page 6 of D-19.

3 Q The first percentage figure is 2.80. Am I 4 not correct that that is the percentage of the employed 5 persons in Chester Township as compared with the rest of the 6 five-county region? To clarify the record, A 7 the percentage is .28 per cent, and it's the number of people 8 working in Chester as compared to the number of people working 9 in the region.

Q So that it isn't just all of those who are em ployed, who happen to live in Chester Township?

¹² A This is not Chester residents' total employment in
 ¹³ Chester Township.

Right. Now, that figure, therefore, based upon
 those employed in Chester is controlled, naturally, by the
 extent that Chester previously or at least up to this time
 will have zoned any of its property for business, commerical,
 or farming purposes, which would give rise to employment;
 that follows doesn't it? A No.

Q Tell us why that is not correct.

A Well, that would assume that all of the lands, whatever
was zoned in the township, in fact, had been developed industrially or commercially, which is not necessarily the case.
The town had area-zoned, which hadn't been built. Therefore,
the employment isn't a reflection just of the zoning. It is

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1 in fact, what the market place is dictating in part, what the soning is permitted in part.

3 Well, are you saying if the market would have Q 4 dictated there be a lot more employment available, a lot more 5 industry and commerce would have wanted to locate in this 6 place, that Chester would, by some automatic process, have re-7 zoned itself so that there would be more space allocated for 8 commerical and industrial purposes? A I'm 9 saying that there's room right now today, and there had been 10 room even years ago, because there were areas zoned for non-11 residential purposes, never been built upon.

12 Q. What do you mean? What non-residential purposes 13 is there room for? Industrial, areas in the A 14 town goned industrial, and areas that had been goned business. 15 Do you know where the industrial areas were in Q. 16 Chester Township? Å I don't--

17 Whether they were practical --. Let me ask the Q 18 first question first. I don't have a copy 19 of the old zoning map so I can't give specific reference, but 20 I recall it was basically in the vicinity of the borough, and 21 there has been, or had been some development in that area, but 22 not, nowhere near the area that had been soned.

23 Well, how much? You say "nowhere near." Q 24 I couldn't tell you because I don't remember what the 25 numbers are.

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Fifty per cent, ten per cent, ninety per cent, A I don't recall.

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Q Now, what about commercial development? A I believe the same would hold true. I think there are areas in the community that had been zoned commercially that had not been built upon.

Q Isn't it a fact that the extent that a municipality will gone its residents in such a way as to encourage a lower-income labor force to come in has an impact upon the extent that there will be commercial and industrial development? A I have never heard that question posed that way.

13 Q You have never heard the concept that industry 14 or this view that industry and commerce has that it will 15 not move into an area where it can't readily find a labor force 16 to work; industry will not come in, steel mill, for example, 17 which, of course, would be absurd, but a steel mill is not likely 18 to come into Chester Township, even assuming there were enough 19 land for it, if the labor force would not be readily available; 20 isn't that ---A As a general proposition, that is 21 correct. It becomes extremely difficult to say that a labor 22 force doesn't exist in this region, because the region is so 23 large, and very mobile, so that if you took a hypothetical 24 steel mill in Chaster, it's still possible there might be a 25 labor force coming 30, 49 miles away to it.

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Q Do you know whether that is happening in the
 corporate headquarters of I. T. & T., whether or not they're,
 in fact, having difficulty in finding people to work?
 A I have no specific knowledge of any of the specific
 corporations in this general area.

⁶ Q Is it not also a fact that a commercial area,
⁷ though, is not likely to develop with respect to the con⁸ struction and the occupation of stores and shops, if there
⁹ aren't people, fair number of people around who will use them?
¹⁰ A Of course.

Q If a township such as Chester does not have a
 substantial number of small lots, whether it be lots of
 people living, a fair number of people living, that whatever
 commercial area there might be would not be developed because
 the people are not there to buy on a local level?
 A That's not necessarily true.

17 ۵ What is the fact about the development? 18 I'm speaking now not of the shopping center such as Chester 19 Springs, but--As a practical matter, you A 20 have a comparable situation in Morristown - Morris Township, 21 in that Morristown is a commercial hub and surrounding it you 22 have a township which in the last 20, 25 years has developed 23 substantially. Morris Township now has a population over 24 20,000 people, yet does not, for practical purposes, have too **25**° much by way of commercial development, although the needs for

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the township would be supplied in Morristown, and the same would hold true in Chester Borough and Chester Township. So, the fact that the area, the township has some areas zoned commercial does not necessarily mean that they in and of themselves must have a substantial population to support it, because that support could come from elsewhere, or conversely, the fact that it has property zoned commercially doesn't mean it will be built there because there are competing facilities in the borough, and the total market support for commercial facilities might be before the borough, township, and other communities as well. There's no direct correlation between one and the other.

13 You spoke first, I think, of Morris Township Q 14 and its development with regard to its proximity to Morristown. 15 Isn't there a difference when a township such as Morris 16 Township would be as close as it is to Morristown and the 17 shopping in Morristown so that there would not be the need, 18 perhaps, for the construction of commercial places for Morris 19 Township, and isn't that a reason why such development would 20 λ I don't know that I under not take place? 21 stand the question.

22QMorris Township adjoins Morristown. Chester23Township does not; is that not correct?ANo, in24fact it does adjoin Chester Borough. I was speaking of the25relationship of Morris Township to Morristown, as Chester

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Township is to Chester Borough. They're both communities, center of which is surrounded by the townships, and there's a historical relationship between those two entities in that they will both, in fact one municipality, Morristown-Morris Township were one municipality, as were the two Chesters, and historically they split off, the center of which became a more urbanized place.

8 Q I didn't think that's what you were talking 9 about before. You were saying there hasn't been much com-10 mercial development in Morris Township even though there were 11 20,000 people there; correct? A Right. The 12 demands for those 20,000 people were being supplied in the 13 town itself in the middle, in Morristown, and I'm suggesting 14 the same might hold true in Chester Borough and Chester 15 Township.

16 However, there's a very great difference in the Q 17 development of Morristown now and the Borough of Chester now, 18 or, and even when Morris Township was growing 20 years ago; 19 isn't that a fact? Morristown was the hub commercially, 20 industrially, professionally, which is different, very dif-21 ferent from Chester Borough? No. Ĩ 22 recognize that Morristown is really an urban center relative 23 to the entire county, and because of the courthouse and hos-24 pitals, and the other functions it serves, a such more regional 25 function, than does Chester Borough, but there is a relation-

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ship, particularly towards convenience needs, that is, the daily shopping needs of residents, that Chester Borough could, in fact, supply to Chester Township in the same fashion Morristown supplied to Morris Township. I'm not implying Chester Borough would become another Morristown.

Q I have difficulty in understanding just what your point is. Maybe you don't understand my question either, but is it a fact that Chester Borough has much more commercial area in it than Chester Township has? A Yes, I believe that is true.

11QNow, if that is the fact, somehow the stores,12places of employment have not developed, except for the two13shopping centers; is that correct?A14ing about the borough now?

¹⁵ Q Yes. A Well, that becomes part
 ¹⁶ of the work force in the borough, but not the only amount of
 ¹⁷ employment that the borough has generated.

18 Q My question now is the commercial area has not
 19 developed very extensively in Chester Borough?

A I suspect it has developed relative to the overall needs of the general region that it serves.

Q Precisely. Just what I'm driving at, that it is developed in accordance with the needs of the area, and the needs of the area depend somewhat upon the kinds of people who live there, the numbers of people, and the income level

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.. 0 of the people; isn't that so? A It depends on many factors, of which they are part of the input. I wouldn't say they're the only reasons.

Q I agree. I'm not being absolute about this. I'm just saying that that is a factor, however.

A Yes.

7 Q And, therefore, what I'm saying is that the 8 percentage which appears on the first column of Table 2 of 9 those who are employed in the region is certainly affected, 10 if not controlled, it's affected by the fact of the develop-11 ment to the extent that there has been residential develop-12 ment in the area; isn't that fair to say? In other words, if 13 there were lots more people living on single-acre lots, or 14 multiple dwellings who would use a commercial area, there 15 would be more people working in the area, and, therefore, that 16 percentage would be bigger? A No, sir. 17 That number is the people working in the township, and what 18 I'm suggesting to you is if the population in the township 19 quadruples, increases tenfold, it doesn't necessarily corres-20 pond that you're going to have an increase in employment in 21 the township because it may be taking place some place else. 22

Q I agree. Wouldn't necessarily happen, but it is one of the things that could affect the development of a commercial area, perhaps an industrial area, the fact of people living in an area? A The attraction for

•	-	Kasler-cross 106
	1	industrial use is not that closely correlated with the
	2	amount of people living in a community, per se.
	3	Q Then, we will de-emphasize the industry and get
ero,"n	4	back to the commercial area. A Yes, there's
ي. الاعمادة	5	a more direct correlation on commercial.
	6	Q Now, you stated, I think on direct examination,
	7	that as of the time of the adoption of the master plan in
	8	1974, that it was appropriate just to plan for the next six
	9	years; did you say that? A No, sir.
	10	Q Tell me what you said. A If I
	11	did, I hope I didn't.
	12	Q Tell me what you said. A The
	13	original concept when one developed the master plan was to
	14	really do a long-range program, projected ahead ten, fifteen,
	15	twenty years. What I did state was that the Municipal Land
	16	Use Law, which is now in effect, requires a periodic re-
	17	assessment every six years. That is, the municipality is
	18	required to at least review that plan every six years as bein
	19	kind of an interim period which will have an affect on plan-
	20	ning and zoning in the municipality, not just Chester.
	21	Q Let me just step ahead a moment, Mr. Kasler.
	22	The Municipal Land Use Act was, of course, adopted after the
	23	master plan was adopted, wasn't it? A That's
	24	correct.
	25	Q All right. Go on. A The only

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1 thing that triggered that was the reference to six years. The 2 whole concept legislatively was then to tie, if a community 3 was undertaking capital improvements, to tie in that kind of 4 a program with an overall land use plan. It would then tie 5 into various types of goning so that you didn't have an 6 ordinance which became outmoded, outdated, so that hopefully 7 the municipality will be reviewing and updating all of their 8 implementating ordinances, and other types of controls on 9 a short-term basis.

10QYou say the Municipal Land Use Act calls for11review of the master plan every six years. You have read12that section of the Act, I assume, have you not, the one that13refers to the six years?A14law.

15QThat's not responsive, Mr. Kasler. Did you16read it?AYes, sir.

17 Q Now, do you recall what sanctions there are if
 18 a municipality does not follow the injunctions of the statute?
 19 A What specific section are you referring to?

Q This is 40:55(d)8.9. It provides that, The
governing body shall at least every six years provide for a
general re-examination of its master plan and development
regulations by the planning board." Now, you say you have
read the document and, indeed, you wrote it, helped write
part of it. Do you know what it says about what happens if

	Kasler-cross 108
1	the, if the townships or any town doesn't follow the re-
2	quirement of the statute? A I don't recall any
3	sanctions.
4	Q So that even though there is, conceivably this
5	would call for a study of the Act, I guess, but even if the
.6	Act does call for re-examination, it doesn't necessarily have
7	to happen, does it?
8	MR. FERGUSON: I object. It calls for a
9	legal conclusion which this witness may or may
10	not be qualified to answer.
11	MR. LINDEMAN: I didn't offer the gratui
12	tous statement that he wrote the act. He did.
13	MR. FERGUSON: That's why I said he may
14	or may not be qualified.
15	MR. LINDRMAN: I'm only asking factually
16	of course. I take it you don't know, Mr. Kasle
17	THE COURT: I don't think it makes any
18	difference whether he knows or not for this
19	case. I'll sustain the objection.
20	2 The soning ordinance was adopted in, at least
21	two years after that, of course, wasn't it? I think it was,
22	became effective in August of 1976? A Yes, si
23	That's correct.
24	Q And, your testimony was that it really was ef-
25	fective until about 1982 because there was an economic turn-
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down in the period, and, therefore, what was contained in the
'76 ordinance would really go that long; is that correct?
Is that what you said, or was it something different than
that? A I don't recall making that statement.

Q Is it fair, then, to say that the zoning ordinance of, that was adopted in '76 was intended to just, to speak for the next four years because the projections as of 1974, or needs for multiple-family dwellings spoke for six years, and that time would be up in 1980?

10 The time framework is a little bit different, but what 11 I think is engendered in this entire concept is that within 12 a six-year period the town would be required to review this 13 document and determine whether, in fact, it was current and 14 up to date. If it were not, then it could make various types 15 of adjustments based on its findings. There will be communi-16 ties in this State in which six years will not see a great 17 deal of change in the community. In fact, the ordinance will 18 still be as valid as it might have been six years previous, 19 and there will be other communities in which a great deal of 20 activity will have taken place in that perhaps certain adjust-21 ments should, in fact, be made, but you will only know that 22 at the time you make your evaluation. So, what I believe I may 23 have stated was that somewhere relative to the housing study 24 which we undertook to be a six-year projection, Land Use Law 25 being a six-year projection, sometime in the early 1980's or

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1 sconer it would be reasonable to assume that this ordinance 2 would be valid, as would the master plan, as to the total 3 needs of the community, and, in fact, had two or three hundred multiple-family housing units been built at that point in 5 time, and there was adjudged to be an additional need to go in the later years, perhaps additional areas would be re-soned.

Q. Is it your opinion that good planning, a goning ordinance should speak only for the succeeding six years? Yes, sir. It speaks to six years, and thereafter.

10 That's what I mean. It's just limited to six Q 11 years, and then in six years when that period is up, to re-12 examine, to see if there shouldn't be more multi-family 13 dwellings or ---Yes, sir. I believe that A 14 it is good planning.

15 Isn't it always difficult, difficult if not Q 16 explosive, when residential single-family residences have 17 been built, to re-zone immediately adjoining neighboring 18 areas to multiple dwellings because that would have a chilling 19 effect on the value of the single-family dwelling right next 20 door to it? Isn't that a reason, therefore, that more than 21 just the immediate need should be planned for?

22 The first part of the question, I don't totally under-A 23 stand. It's taken in a very general context. The second 24 part of the question is that the planning for long-term **25**° conditions is being taken up by the master plan. It's only

111 Kasler-cross 1 the six years that will require some form of implementation, so if the master plan looks forward to 20 years, and the first six years is implemented, that, in my judgment, is a valid and reasonable way to plan for our municipality.

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5 I'm speaking of the zoning ordinance, and if the Q 6 zoning ordinance as the 76-12, in fact, provides, takes care 7 or allows for three tracts to be available for multiple-8 family dwellings, and it should have developed, should turn 9 out that in 1980 much more multiple-family dwelling would 10 be needed, and if single-family dwellings are built in 11 places of Chester Township which are next door to other 12 tracts that the township now says should be multi-family 13 dwellings, the people who built those single-family dwellings 14 will be very upset, won't they, and it becomes difficult to 15 zone the adjoining property for multi-family dwellings? 16 If I may, I think you've got about three hypotheses A 17 in there. One that, three tracts of land that are zoned 18 multiple-family, shouldn't say hypotheses because that, in 19 fact, is a fact, to assume parts of it are developed for hous-20 ing, and then the third part is that the residual lands, if not 21 zoned, or if you cannot build them for multiple-family hous-22 ing, would be developed for one-family housing. Is that ---

23 Q No. I'm saying that you're used up on the 24 multi-family dwelling. 1980, you don't have any more land 25 because all the land zoned for it is built apart from the

1	Kasler-cross 112 what's in the present zoning ordinance, and you have to
2	zone more, if you zone more land at that time it becomes more
3	difficult because you might have to some lands which are
4	next to places where there are single-family dwellings;
5	isn't that, do you not understand me? A No.
6	Q All right. I'll drop it.
7	THE COURT: Why does it become more
8	difficult?
9	THE WITNESS: I think I know the direction
10	that he's going.
¥ 11	MR. LINDEMAN: It's difficult because
	multi-family dwellings next to premises that
13	are
	THE COURT: Difficult for whom?
່ ຊີ້ 15	MR. LINDEMAN: Obviously difficult for
ž 16	the people who live there, and it's not fair.
17	THE COURT: They want to sug
18	MR. LINDEMAN: It's
19	THE COURT: Isn't that the way? Isn't
20	that what the Land Use Law contemplates? Go
21	back every six years and looks at it. I don't
22	understand why all that questioning. Where was
23	it going to? Mr. Ferguson sat here without
24	objection, while I squirmed.
25	MR. LINDEMAN: I think it's a very real

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point, and I think the witness is really fencing with me. I'm saying that here the municipality plans only for six years, and has limited areas for multi-family dwelling, and after six years it might have to allow for a lot more. At that time, it might be it's much more difficult unless, rather than if the municipality had planned originally, perhaps, over-goned as <u>Madison at Oakwood Township</u> calls for.

MR. FERGUSON: If the local residents screamed loud enough, they won't re-zone any more land. I think that's what he's getting at, and I think this is my own view that this is a problem the Land Use Law has solved by erecting the various boards and bodies, and boards of review, and ultimate appeal to the Court. It's a problem you'll have now, later, no matter what the statute says. So, I don't think it's a particularly relative inquiry, but that's the way I perceive the question is going.

MR. LINDEMAN: It isn't just screasing. I'm talking about a zoning ordinance that provies for 300 units, and a master plan that calls for 650 units. There's no provision in

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the soning ordinance for anything like that 650 units, obviously, and the witness says that he thinks that was good planning. Now, it might be that my questions are just, can't be understood. I didn't think that was the case, but apparently so. But, I think the point has been made, your Honor. I'm sure it isn't worth beating any further.

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9 Mr. Kasler, my notes show that when you testi-Q 10 fied before, you said that the township had environmental 11 problems, and there were geographic and geologic factors 12 which militated in favor of the areas chosen for the RM zones, 13 but you don't know what they are; is that correct? 14 There will be another planner who will be testifying 15 to those aspects. 16 That's Mr. Hultgren, is it? Q 17 Ä Yes, sir. 18 Q. Now, the three areas were chosen with a number 19

of factors having been borne in mind. One was accessibility
to highways. Is it your view that the three parcels are more
accessible than, let's say, the Caputo tract to major highways? A Yes, sir.
Is it not a fact that so far as shopping is--.

Well, let me put it this way: Are any of the RM-zoned properties immediately adjoining any shopping center, or across

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1	the street from the shopping center that you can recall?
2	A I don't recall if they're immediately adjacent to or-
3	I can't recall per se.
- 4	Q So, you don't know whether, even where they're
5	located, it would nevertheless be necessary that residents
6	in any one of those three zones would have to drive to the
7	shopping center, no matter how far or how close they would
8	be? A I believe we would assume that over-
9	whelmingly people will drive to do their shopping. It was
10	not being located where it was for the purpose of walking,
11	or it was not anticipated.
12	THE COURT: There's a drive regardless
13	of the location?
14	THE WITNESS: That's correct. The in-
15	tent was to minimize the travel distance of that
16	drive.
17	Q Do you know whether there are any traffic stud-
18	ies that were made of the highways on which the three RM gones
19	were located? A I believe there were some
20	data available as to traffic volumes on the major thorough-
21	fares.
22	Q Was that something that you concerned yourself
23	with, or was that Mr. Hultgren? A Again, that
24	was Mr. Hultgren.
25	Q A factor to be considered is the availability of

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water and sewer utilities, and the three parcels that were selected are closer, perhaps, than others to the borough, and it was assumed that it was more likely that there would be a sewer system in the borough first; is that correct?

5 It was assumed several things. One that the, as you Å 6 have indicated, that there might be the availability of severs 7 in the borough, perhaps extending out to certain parts of the 8 township, or in the alternative, that the sites, if developed, 9 could have on-site utilities provided by the developer which 10 would, which could be absorbed by the ground, or whatever 11 the system was. In that context, we met with the director 12 of the Upper Raritan River Watershed to discuss those 13 particular matters as to our conclusions, as to the poten-14 tiality of that at the sites, and to cross-discuss with him 15 as to his opinions.

16 As to the first factor, that is severs, is Q . 17 Chester Borough doing anything or has it been doing anything 18 with regard to creating any kind of a sever system? 19 My recollection was that in the mid-1970's, '73, 20 that when the master plan was being studied, that there was 21 some consideration being given to it by the borough, or that 22 there might, in fact, be a merger between the borough and the 23 township which was under discussion at that point in time 24 as well. 

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The merger with a view to creation of the sewe

Kaaler-cross 117 1 system7 A To create one municipality from 2 the two. 3 I'm speaking now only of the sewer system. Q 4 A I understand that, but that's part of the overall ---5 Q In connection with a potential merger, there 6 was also consideration given to---Possibility 7 of central sewers, yes. 8 Q. Is the population density in the borough greater 9 substantially than that in the township to your knowledge? 10 A I really don't know. 11 0 Do you know what spot soning is, Mr. Kasler, 12 what we generally mean when we refer to something as spot 13 zoning? X I think I have an understanding 14 of it, but I really believe it's a legal conclusion. 15 Ű. Until there's an objection, can you tell us, 16 please, what spot zoning is? Spot zoning Ä 17 is providing a certain benefit to a property owner or group 18 of property owners which on a very limited basis is not being 19 provided to anyone else, and is, therefore, to the benefit of 20 those particular property owners, almost exclusively. 21 Q You mean where it would be necessarily the intent 22 of the governing body just to favor one party, and has 23 nothing to do necessarily with the result, merely the fact 24 that only one one-owner tract is zoned in a particular way. 25 You think it just has to be the intent of the ---

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A I think it's a result. Beyond that, I believe you
 could have soning to benefit a singular property owner, and
 still might not constitute spot zoning.

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Q The three parcels that were selected for multifamily dwellings, each are owned by one owner, are they not?
A I don't know that.

Q Is it fair to say you don't know if Mr. Hultgren knows that? A I don't know whether he knows it or not.

Do you know how far the three parcels are from,
 or any one of the three, any one or all of the three parcels
 are from a railroad station? A No.

<sup>13</sup> Q Are there bus stations nearby? By "nearby,"
<sup>14</sup> I mean, well, is there bus service? Let me put it that way.
<sup>15</sup> Is there bus service that services the roads in front of the
<sup>16</sup> RM parcels? A I have no specific knowledge of
<sup>17</sup> any.

18 Q That was not one of the studies that you made,
 19 then, has to do with the traffic pattern, does it?
 20 A Yeah. I would presume that it would. I don't have
 21 any knowledge as to any bus service in that general area.

22 Q Are you familiar with the Governor's Executive
 23 Order #35, which calls for 1,000 to 1,100 additional dwellings
 24 in this township by 19807

MR. FERGUSON: I don't know that that's

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a document in Evidence. If we're going to --. Or, marked for Identification.

MR. LINDEMAN: No, it isn't.

NR. FERGUSON: I would object, then, as to the characterization of "calls for," unless the witness can see the document, read it, and see if those words are used, or what the document does in fact say.

MR. LINDEMAN: Well, excuse me. If the Court will bear with me, I think this was asked in his examination, the question was asked, page 49 of his pretrial discovery on February 16, 1977. "You are aware of the fact that there has recently, there has been recently published a state housing goal pursuant to the Executive Order #35 of the Governor, issued last April? AMS.: Yes, I'm aware of that." So, he's already conceded that he is aware of it. Then the question is "The figure mentioned for Chester in that housing goal, as I recall, is slightly in excess of 1,000 units? ANS.: Something of that magnitude. I don't remember if it was 1,000 or 1,100, but you are correct, it is somewhere in that vicinity." So, I didn't think it ---

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: 8 THE COURT: What's the relevancy of it? MR. FERGUSON: We had a colloquy on this earlier. It's my understanding that something was done to that Executive Order so it's no longer with full force and effect of an Executive Order. I think that it came out too long before the election, and then they did something else. I would object to it going in as substantive evidence. I don't think there's much question that document had--THE COURT: I'm asking what's the relevancy

of the question, Mr. Lindeman? Where's it going to go?

MR. LINDEMAN: The relevancy is this: I would ask the witness what his view about its correctness would be and then whether or not it would--

THE COURT: Correctness of what the Governor has ordered, or the correctness of what the Governor--

MR. LINDZMAN: Estimate.

THE COURT: Whether that astimate is as reflected in the report is correct, or whether there is, in fact, a need for that much housing by 1990.

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MR. LINDENAN: It would really be both. The witness wouldn't say he agreed, unless he didn't think there was a need. It would be both.

THE COURF: I might not necessarily agree with what he said was correct. That's what I'm asking you. That's all I'm asking you. That's what I want to know. Do you want to know from him whether the Governor said that---MR. LINDEMAN: Whether he agrees with

it. Whether he believes it is correct.

12 THE COURT: All right. I'll allow it. 13 Let's first get through you are aware--14 You're aware of the Executive Order #35 that Q 15 called for additional housing units, a thousand, by 19907 16 I would correct the question to the efficit that Å 17 Executive Order has been rescinded, is no longer an Executive 18 Order. 19 MR. LINDEMAN: Please answer the ques-20 tion, Mr. Kasler, until you're instructed 21 otherwise. 22 THE WITNESS: I can't answer--23 Nere you aware of the existence of that Execu-Q 24 tive Order #5, whether it has been rescinded, or not? 25 I was aware of it at the time that it was an Executive Ä

Order, yes.

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1 2 Now, without regard to it having been """" Q cinded, whether it was even, it has the force of law, do 3 4 you have an opinion as to whether or not the figure of 1,000 5 to 1,100 units by 1990 is correct and a fair one? 6 Yes, sir. I have an opinion. 7 What is that? Q It is my 8 opinion that it is not fair, or a correct one. 9 Q In connection with the present master plan 10 and soning ordinance, which presumably are being formulated 11 for the defendant, have you had occasion to confer with Mr. 12 Cappola who is working on it? λ No, sir. 13 MR. FERGUSON: Excuse me, could I have 14 that question read back? 15 (REPORTER COMPLIES.) 16 MR. FERGUSCH: There are two assumptions 17 in the beginning which may or may not relate 18 to the question. I won't object. 19 You have read, you made reference in your Q 20 direct examination, Mr. Kasler, to Madison at Oskwood, 21 Madison at Oakwood Townshin, have you not? 22 Yes, sir. A 23 Q It is correct, then, that where Judge Conford 24 for the Supreme Court says that Madison has provided for no 25 home ownership at all on, quote, "very small lots," close

| Kasler-cross 123                                              |
|---------------------------------------------------------------|
| quote, as mandated in Mount Laurel, this is, by the way, page |
| 41 of the slip-in, clearly no effort was made to permit,      |
| quote, "least-cost," close quote, single-family homes, and    |
| certainly not in reasonable numbers, that the same thing      |
| does apply to the present zoning ordinance, correct? That     |
| is to say, there has been no provision for home ownership on  |
| very small lots? A It's my general opinion t                  |
| a townhouse type of a unit, which would be sold, would have   |
| the same comparable impact and force as a single-family       |
| house on a small lot. In fact, it might even be less costly   |
| than a one-family house on a small lot in and of itself       |
| MR. FERGUSON: The witness is not                              |
| through.                                                      |
| Abut, I raised the issue with counsel as to the               |
| question as to small-lot zoning which is certainly one of th  |
| areas that I felt the Chester Planning Board and governing    |
| body should look to in evaluating the master plan and the     |
|                                                               |
| zoning ordinance.                                             |
| Q Now, when the municipality provides for 300                 |
| multi-family dwellings, is that necessarily a reasonable way  |
| to provide for least-cost multi-family dwellings, or is it    |
| not necessary that in order to create a climate for the con-  |
| struction of 300 units of least-cost housing that you must    |
| provide for construction of substantially more than that?     |
| A I don't understand that question.                           |
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1 You don't understand the question. If you Q 2 allow for only 300 multi-family dwelling units, is it likely 3 they will all be for least-cost housing, and I'm speaking 4 now of the situation as it pertains in Chester Township, the 5 lands available for it in Chester Township, bearing in mind 6 the costs or value of the lands, and all the other economic 7 considerations that are applied, when you allow for 300 units 8 are you likely to get 300 units of least-cost housing? 9 I don't know that that question could be answered. It's

<sup>10</sup> purely speculative. It may be, may not be. The only way of <sup>11</sup> knowing is to actually have the development take place. <sup>12</sup> There are so many factors beyond the municipal, municipality's <sup>13</sup> position as to know whether or not those units are going to <sup>14</sup> be \$40,000 or \$140,000.

<sup>15</sup> Q So, therefore, you would disagree, then, with
 <sup>16</sup> Judge Conford at page 46 of the slip-in where he says, "And
 <sup>17</sup> developers of least-cost housing may not select all of the
 <sup>18</sup> zoned land available therefor, or at least not with any an <sup>19</sup> ticipated period of need; thus over-zoning for the category
 <sup>20</sup> desired tends to solve the problem."

THE COURT: Mr. Lindeman, let me say this: The word "least," the words, "least cost," imply whatever the least cost might be in a community. That might be a range, tremendous range as you go from community to community.

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On his direct examination he pointed out the variable character of that word, "least." I think you're being unfair to him. That's what I implied. His answer was as it related to the last question. He can't answer what the least cost housing is because he doesn't know what "least-cost" means for Chester Township, am I correct?

THE WITNESS: Correct.

MR. LINDEMAN: I disagree with that, your Honor. I think the witness is not being candid, and I think that is really not the case, that when we know what least---

THE COURT: All right. You tell me what is the definition of "least-cost housing." I'm the trial judge, and I'll give you an opportunity to define for me "least-cost housing."

MR. LINDEMAN: Well, I think it has been defined, and I think it has been defined even by this witness. It would be the housing that would be available for those people in the lowest, that low-income category that he referred to. He guessed--he said, I'll make a guesstimate as to what it is, something like--

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THE COURT: It's the least cost of housing in the community, the cost at which housing can be produced at a least cost. It's not correlated as far as I read <u>Madison</u>, and you can point it out to me if I'm wrong, it's not correlated in the <u>Madison</u> case to low and moderate-income housing. You show me where it is.

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MR. LINDEMAN: I don't have it here. I think it does, your Monor.

THE COURT: I would like you, tomorrow or the next time we appear, you show me where it correlates the words, "least-cost," specifically and directly into moderate and low. I don't think he does. I've read it two times, three times, four times now, and I have difficulty with either of you pushing a witness to try to define a term used by a judge in an opinion, when it is a term that I have to deal with, and it really deals with what my responsibility is, not what his responsibility.

MR. LINDEMAN: I think what "least cost" means is cost of housing available to lowincome people. Doesn't mean poor construction-THE COURT: I'll give you a break. I'll

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take till five after. You show me where in Oakwood at Madison it says that.

MR. LINDEMAN: I may have to read the whole case on it, your Honor, because I think it's a general thing that interweaves through it, but I'll try.

THE COURT: Let's take a break.

(RECESS IS OBSERVED.)

MR. LINDEMAN: Judge, I agree with the Court's frustration about the opinion. We all have problems with long opinions.

THE COURT: I'm not--don't misunderstand me. I'm not necessarily frustrated by it. The way I read it is that least cost arises as a concept because without public subsidizing, a builder may not be able to provide housing for low cost, low-income people, so you get this filtering-down process. But, I don't see anywhere where it says "least-cost housing" to be provided for low-income people, and that's my point.

MR. LINDEMAN: I think it's a fairly lengthy thing, but I don't think it will take too much time, your Honor. At page 37 of the slip-in, I don't know that it follows the same

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pagination in the advance sheets.

MR. FERGUSON: Footnote 21.

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MR. LINDEMAN: The Court says,"Nothing less than zoning for least-cost housing will..." indicated circumstances, "satisfy the mandate of Mount Laurel,"and past the paragraph of the footnote, it says, "We envisage zoning provisions which will permit construction of housing in reasonable amounts at the least cost, consistent with such standard observation. Many areas of the State confirm that low-cost housing can be maintained without becoming a slum." So, there's a sentence in which, low cost and least cost are sort of--

THE COURT: Well, I don't read it to suggest that it's--

MR. LINDEMAN: That's not the whole story.

THE COURT: Let me get something straight. I sat here while Mr. Forguson has asked questions in the legal area. I have sat here now while you've done it, quietly, without objection on my own part. A point is reached, however, when in my opinion there's a little bit of an affrontry to the trial judge to have an expert

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sit on the stand and interpret a zoning case. Let him stick to his field, ask questions in his field, but don't press him for answers as to how to interpret Mount Laurel or Oakwood. You let me do that. Let's get away from his legal opinions. Let's stick to his planning opinions. All right? I have not said anything before, but we're getting overly burdened with it, and, Mr. Lindeman, the reason I allowed you to go on is because Mr. Ferguson asked the questions. He started it. If you objected in the beginning, I would have closed him off. You didn't so, I think, therefore, you have the right. to do the same thing, but a point has to be reached. When I say affrontry, I'm not really affronted by it. It's just that I think we're wasting time. I don't think that's the type of questions that should be asked of this man. Okay? So, let's stick with his field of expertise.

MR. LINDEMAN: I guess I didn't object in the first instance since I did fully intend to go into it myself. That was the reason.

THE COURT: I was well aware of why you didn't object.

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MR. LINDEMAN: Just one final thing, Judge Muir, on page 40, I won't read this, the slip-in which is after Roman numeral VI, first two, three paragraphs, the Court there talks about the level of income of poor people, and very next few paragraphs talks about leastcost housing, so it was from that that I would say the Court is talking about low income and very precise categories in terms of least-cost housing, and thereby correlates the two. It's a little bit attenuated, but I think he does it that way.

THE COURT: I think the whole concept of least-cost housing comes about based upon the filtering-down process. We will provide leastcost housing, and, therefore, people in moderate income will be able to buy that. Then the people in the next income level down will have a lower standard of housing available to them that they can buy, but better than what's being provided for them now, so everybody will have a better standard of housing. I really think the concept well recognizes the problems of providing unsubsidized, publicly unsubsidized housing at a cost that low income and even

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moderate-income family ranges can afford.

Maybe moderate in this area, I don't know.

MR. LINDEMAN: Your Honor, based upon that last ruling, I really have nothing further to ask the witness. I'm finished.

REDIRECT EXAMINATION BY MR. FERGUSON:

<sup>7</sup> Q Mr. Kasler, do you know if there was any bus
 <sup>8</sup> service in Chester Township when you and Mr. Multgren were
 <sup>9</sup> helping prepare the master plan? A I don't re <sup>10</sup> call.

11 Q Would you care to comment upon the question of 12 which comes first, the chicken or the egg, as it is related 13 to employment and residents, which comes first, industry and 14 jobs, commercial activity, or, and then the residents, or is 15 it then people, first people and then commercial and indus-16 trial activity? I think that's what Mr. Lindeman was trying 17 to get, and I'm not sure we ever satisfactorily explained 18 or understood what the questions were, and more importantly, 19 what your responses were. A In a very simplis-20 tic area, you would first have the employment, which would 21 then lead to people being there; because we're in such a com-22 plex metropolitan area, it almost doesn't matter which one 23 comes first, because if the industry is located in Chester, 24 the residents or the employees could be 20, 30 miles away, 25 containing a very substantial area, or in the alternative,

Kasler-redirect 132 1 housing may be built in Chester for jobs which may be 15, 2 20, 30 miles away. The commercial contrast to industry is 3 directly related to the resident population; that is, if you 4 have a substantial residential population, you could almost 5 predict there will be "X" amount of square footage for super-6 markets, drug stores, general convenience types of shopping. 7 Other types of commercial uses are not directly related to it, 8 but are somewhat more indirect, but there are still fairly 9 direct correlations. 10 Was it your recollection at the time the master 0 11 plan was done, and you worked on it, that Chester Township 12 had land zoned for industrial and commercial, which had not 13 been, in fact, developed? Yes, sir. A 14 0 Mr. Kasler, you gave us your opinion that you 15 did not think that document which has a title on it, labeled 16 Executive Order #15, and a housing goal for Chester Township 17 of around 1,000, your opinion was it was not a fair number. 18 Will you tell us why? A For one, the method 19 of selecting or allocating the number of units was based on 20 a number of factors, some of which I thought were really 21 irrelevant, including income. 22 Can you tell us what factors were used in that Q 23 The document I'm looking at is document? A 24

entitled, "Statewide Housing Allocation Plan for New Jersey,

Preliminary Draft for Public Discussion, dated November, 1976,

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1 prepared by the Division of State and Regional Planning." 2 And, in the back of that particular report, under the title 3 of "Housing Allocation Criteria," there are such things in-4 dicated as population, housing units, present housing needs, 5 which refers to the earlier study that the Department of 6 Community Affairs did, vacant developable land, which we 7 included in our study, and then employment growth, that is the 8 change of employment over a period of time, which is not 9 necessarily relevant, and non-residential, non-residential 10 ratable growth, and personal income. Meither one of which is 11 directly related to the need for housing in a particular 12 community. A community could be a very wealthy community, 13 and not have a housing need, depending upon a whole number 14 of factors. This says the higher the income, the greater 15 the need, and there's absolutely no correlation in my mind 16 as to that aspect. As to the non-residential ratable growth, 17 if a community, in fact, has a great number of jobs, but has 18 not grown over the period of time that this was evaluated, 19 its needs would be lessened even though there may be thousands 20 of jobs in the community, and so on. The other aspect of it 21 was that the division had a series of regions allocated in the 22 State. Many of which were the counties themselves, but when 23 you get into the North Jersey area, lumped about eight or 24 nine counties into one specific region.

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What is the region used in that report which

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would include Morris County or Chester Township, or both?

A It was designated Region 11, and included Bergen County, Passaic County, Morris County, Essex, Hudson, Union, Somerset and Middlesex. Now, while that, those one, two, three, four, five, six, seven, eight counties were considered one region, the adjoining county, Sussex County, was a separate region; Warren County was a separate region; Hudson, a separate region, so on.

9 Do you, as a professional planner, agree or Q 10 disagree to the selection of that region as an appropriate 11 one for that kind of study? I think it's 12 inequitable. I think, for example, places Morris County in 13 an eight-county region, but the adjoining county is a region 14 onto itself, which I think is a little bit unrealistic, if you 15 use counties as a measure, county should be used uniformly. 16 If you'll use so-called "journey to work," then there should 17 be a formula for determining how you would allocate that, but 18 the result of which, I believe, that it created disproportion-19 ate numbers depending upon a lot of the non--, what I consider 20 non-direct variables, and, therefore, creates inequitable ---

Q Non-direct variables? A Variables as to allocation that have no relationship to the needs for the housing or the jobs which are in effect creating those needs.

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Did that study give a basis of the D.C.A.'s

|                    | 1  | Kasler-redirect135allocation, how they weighed it?AThere ap-  |
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| •                  | 2  | parently was some formula utilized, but I could not determine |
|                    | 3  | from this study exactly how that was done.                    |
|                    | 4  | Q Is the grouping of the eight-county region,                 |
| Friday             | 5  | or eight counties together in one region, Region 11, would    |
|                    | 6  | that, in your opinion, give an undue weight to the factor     |
|                    | 7  | of vacant developable land?                                   |
|                    | 8  | MR. LINDEMAN: I now object, your Honor.                       |
|                    | 9  | We really are proving the validity, correctness               |
|                    | 10 | of the Executive Order                                        |
| FORM 2046          | 11 | THE COURT: You're going too deep into                         |
| 07002              | 12 | it. Got a mention in cross-examination. Now,                  |
|                    | 13 | I don't think there's any necessity, I don't                  |
| ENGAD CO. BAYONNE. | 14 | see the relevancy of it. It's been rescinded                  |
| GAD CO.            | 15 | according to his testimony.                                   |
| 2<br>4<br>4        | 16 | MR. FERGUSON: That's all I have.                              |
|                    | 17 | MR. LINDEMAN: Nothing further.                                |
|                    | 18 | THE COURT: Okay. Thank you. Step                              |
| •                  | 19 | down.                                                         |
|                    | 20 | MR. FERGUSON: That's it for today.                            |
|                    | 21 | (WHEREUPON PROCEEDING WAS ADJOURNED.)                         |
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