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BEFORE THE ENVIRONMENTAL PROTECTION APPEALS SHOARD UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C.

ORIGINAL

IN RE:

:

UPPER BLACKSTONE WATER

POLLUTION ABATEMENT DISTRICT, :

NPDES APPEAL NOS.

NPDES PERMIT NO. MA0102369

: 08-11 TO 08-18

&09-06

:

Washington, D.C.

Thursday, October 29, 2009

The above-entitled matter came on for ORAL ARGUMENT, pursuant to notice, at 1201 Constitution Avenue, Northwest, Washington, D.C., before Constance H. Rhodes, of Capital Reporting Company, a Notary Public in and for the Commonwealth of Virginia, commencing at 10:00 a.m., before the HONORABLE JUDGES CHARLES SHEEHAN, ANNA A. WOLGAST, and KATHIE A. STEIN.

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16	ALSO PRESENT:
17	Eurika Durr
18	
19	* * * *
20	
21	
22	

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1	PROCEEDINGS
2	MS. DURR: The Enironmental Appeals
3	Board of the United States Environmental
4	Protection Agency is now in session for oral
5	argument in re: The Upper Blackstone Water
6	Pollution Abatement District, NPDES Permit Number
7	MA0102369, NPDES Appeal Numbers 08-11 to 08-18 and
8	09-06.
9	Please turn off all cell phones and
10	recording devices.
11	Please be seated.
12	JUDGE WOLGAST: Good morning. We're
13	here pursuant to the Board order of September 23,
14	2009, from which we will follow the time frames
15	for each of the litigants' arguments this morning,
16	in which Conservation Law Foundation will proceed
17	first and have 15 minutes for argument. Then the
18	District will proceed with 30 minutes of argument.
19	Massachusetts Department of Environment, then 5
20	minutes, and 10 minutes total for the
21	Municipalities, followed by 50 minutes for the
22	Region. Also pursuant to the order, the District

	Page 5
1	and Conservation Law Foundation may reserve up to
2	5 minutes for rebuttal. And as you proceed and
3	introduce yourself for the record, please let us
4	know if you're reserving time and, if so, how
5	much.
6	Shall we begin with the Conservation Law
7	Foundation.
8	MR. KILIAN: Thank you. Good morning.
9	I am Chris Kilian. I'm the senior law program
10	attorney for Conservation Law Foundation, and I'm
11	joined by my co-counsel David Mears from the
12	Vermont Law School Environmental Law Clinic, and I
13	would like to reserve five minutes for rebuttal.
14	The Board should grant CLF's petition
15	for review in this matter because both the facts
16	and the law require implementation of
17	limit-of-technology controls on nitrogen along
18	with additional appropriate offsets to account for
19	a main nitrogen-loads facility.
20	The facts indicate that the Seekonk
21	River, which is the ultimate receiving water for
22	discharge from the District with regard to

	Page (
1	nitrogen, is the most severely impaired segment of
2	Narragansett Bay, and that's been cited both in
3	EPA's materials as well as ours as well as Rhode
4	Island's amicus brief and underlying record.
5	Eelgrass beds have disappeared
6	completely from the Seekonk River and the upper
7	two thirds of the Narragansett Bay as one
8	indicator that water quality standards are not
9	met. Needless to say, from our perspective, there
10	is no remaining facility capacity for nitrogen in
11	the Seekonk River or Narragansett Bay. The Upper
12	Blackstone facility accounts for 60 percent of the
13	nitrogen limit to upper Narragansett Bay. It is
14	the dominant and primary source of nitrogen to
15	upper Naragansett Bay. The record clearly
16	indicates that dramatic reductions in excess of
17	the limit of technology for treatment at
18	wastewater treatment plants and this facility will
19	be required to obtain water quality standards
20	compliance.
21	While the Region, in our opinion,
22	appropriately relied upon MERL tank experiments,

	Page 7
1	the record is clear that there is no uncertainty
2	with regard to the fact that the permit limits
3	necessary to obtain water quality standards
4	require implementation of the limit of technology,
5	and Region I should not be allowed to inject a
6	perception of uncertainty where there is a known
7	outcome. Water quality standards will not be met
8	with a limit of five on nitrogen. Into this
9	record
10	JUDGE WOLGAST: As I understood your
11	brief, your position is that the water quality
12	standards in Rhode Island also will not be met if
13	RIDEM criteria were adopted; is that correct?
14	MR. KILIAN: Well, that's not our
15	position, well it is our position, but it's
16	what the record in this matter states.
17	JUDGE WOLGAST: And when you say that,
18	are you relying on the Rhode Island study?
19	MR. KILIAN: What I relied on I guess
20	the Rhode Island study, as I understand it, is the
21	2004 evaluation of nitrogen targets. And yes, I
22	am relying on that study. And there are several

	Page 8
1	statements in that study which underscore our
2	position.
3	JUDGE SHEEHAN: You refer to the code of
4	uncertainty by the Region in attainment of the
5	standard, can you point specifically to where you
6	find those uncertain notes in the record?
7	MR. KILIAN: Yes. On the page 23 of the
8	Rhode Island study, there is a statement this
9	is a quote:
10	The present regulations coupled with the
11	analysis presented above indicate that, among
12	other reductions, wastewater treatment facility
13	nitrogen contributions must be reduced to the
14	limit of technology in the Providence and Seekonk
15	Rivers.
16	The second statement on page 24
17	JUDGE SHEEHAN: Well, must be reduced
18	isn't a number, it's just an aspiration, isn't it?
19	MR. KILIAN: The second statement I
20	would refer you to on page 24 says:
21	With WWTFs in the watershed reducing
22	their loads to a level consistent with the limit

	Page 9
1	of technology, where effluent TN is 3 milligrams
2	per liter, enrichment levels in the area would
3	range from 1.1X to 4.7X. The scenario is arguably
4	quite similar to the no-WWTF case. For the next
5	higher (TN equals five) case, levels in the Upper
6	Providence River and Seekonk Rivers increased
7	significantly to 8.0X above Field Points and to
8	9.3X in the Seekonk River. These levels would not
9	be acceptable as water quality levels in the area
10	based on behavior observed in the MERL experiment.
11	Lastly, at page 27, the Rhode Island
12	study states:
13	Based upon MERL enrichment gradient
14	experiment, minimum DO levels of approximately 3.0
15	and 2.7 mg/l are anticipated from the no treatment
16	plant and limit of technology cases respectively.
17	Lower values are expected for the Providence
18	River, since it is stratified, and the MERL
19	experiment was conducted under unstratified
20	conditions. This analysis indicates that the
21	limits of technology is required but will not
22	fully meet existing water quality standards,

- 1 minimum of 5.0 mg/l except as naturally occurs,
- 2 and may not meet EPA guidelines recently
- 3 recommended for waters from Cape Cod to Cape
- 4 Hatteras.
- 5 JUDGE STEIN: How do you explain -- as I
- 6 understand it, the State of Rhode Island has
- 7 indicated that the number that EPA has arrived at
- 8 is sufficient to ensure Rhodes Island water
- 9 quality standards. How are we to evaluate the
- 10 position of the State of Rhode Island as the
- downstream state as saying the number that the
- 12 Region has set is sufficient goes against the
- 13 assertions of that Rhode Island study?
- MR. KILIAN: Well, I guess I would state
- 15 that Rhode Island DEM and the representatives of
- 16 Rhode Island DEM have filed a brief on behalf of
- 17 Rhode Island -- Rhode Island by the way as well in
- 18 their own prior studies -- and their studies, the
- 19 underlying record in this matter, reflected in
- 20 both the evaluation study that I've been reading
- 21 from as well as the materials in the record with
- 22 regard to the basis for issuance of the Rhode

Page 11 1 Island permits that have been the subject of much 2 briefing, that record, that factual record, 3 clearly indicates that the limit of technology at 4 wastewater treatment plants implemented 5 immediately 3 mg/l, as determined to be the limit 6 of technology by Rhode Island, will not result in 7 attainment of that state's water quality standards. That is the record that is before you 9 and the Region was faced with. The Region should 10 not be allowed by this Board to insert an 11 amendment by argument or alleged discretion in the 12 face of some incertainty, which I do not see in 13 this record, in the place of these definitive 14 statements. That is the record that is before 15 you. 16 JUDGE SHEEHAN: Well, you place a lot of 17 weight on the MERL study, but even the Region 18 indicates, or at least this indicates, it's not a 19 perfect representation of conditions in the river; 20 is that right? 2.1 MR. KILIAN: Well, there are two issues 22 that have been referenced. One is stratification

- 1 and the other is flushing rate. And we would
- 2 concede that no model is perfect. In fact, the
- 3 MERL model is not perfect. But there are
- 4 additional factors cited in the key underlying
- 5 study, the evaluation study, as a basis for
- 6 talking about why these definitive conclusions in
- 7 the MERL tank experiments are further underscored
- 8 as appropriate determinations. And that's on page
- 9 25 of the evaluation.
- 10 There are three factors cited
- 11 specifically as underscoring the
- 12 limit-of-technology statements in the record. One
- 13 is historical data regarding eelgrass beds and
- 14 other ecosystem conditions. There's a bullet
- 15 point on that. The second are recently -- as of
- 16 the time of this record's closure -- issued
- 17 Massachusetts guidelines for their estuaries
- 18 program. And the last is a recently-developed
- 19 land-use loading model developed by Massachusetts
- 20 as well. There is a key statement, again, from
- 21 the study which I want to read based on this
- 22 corroborating information:

	Page 13
1	The following points underscore this
2	decision" and there's the list "In the
3	context of the existing information on water
4	quality conditions needed to support State water
5	quality standards and the designated uses of the
6	area, a loading scenario consistent with the 2X to
7	4X condition represents the goal for the area.
8	The WWTF scenario that produces loads consistent
9	with this goal would require WWTFs in the
10	watershed to implement reductions to the limit of
11	technology. DEM's interpretation of this limit is
12	the TN=3 scenario, with plant flows at 90 percent
13	of design values." That's on page 27.
14	So the underlying the additional
15	corroborating information in this record was not
16	used by Rhode Island DEM or cited by Rhode Island
17	DEM as the basis for saying the MERL tank
18	experiments are not appropriate or correct. TN
19	equals 3
20	JUDGE WOLGAST: I don't understand their
21	argument being it's not appropriate. I understood
22	it to be it was their best analog to a more

Page 14 1 comprehensive waste load analysis or TMDL data. 2 And given that the limit is sort of the inherent 3 limitations of that, are you saying that the 4 Region had no discretion to interpret the data in 5 this context and apply its own scientific 6 expertise? 7 MR. KILIAN: I'm saying that the 8 uncertainty question, as discussed in the 9 recently-issued Attleboro decision, should go to 10 the question of whether or not the MERL 11 experiments can by relied upon. And that has been 12 decided by this Board in Attleboro. 13 corroborating information as cited in the record 14 supports the more restrictive limit. 15 JUDGE SHEEHAN: What about the other 16 documents on which the Region relied in the 2000 17 study and the Gold Book of '86? Actually, there 18 were two 2000 studies: "Ecoregional Nutrient 19 Criteria" and "Rivers and Streams Nutrient 20 Guidance." What about them? 21 MR. KILIAN: On the phosphorus question? 22

For nitrogen.

JUDGE SHEEHAN:

Page 15 1 MR. KILIAN: For nitrogen? Well, I 2 think from our perspective, we're in a non-TMDL 3 scenario. We have no TMDL. The water quality based effluent limitation regulations in those 4 5 provisions of the Act apply, and this record is 6 robust with regard to what is required to 7 ultimately deal with wastewater treatment facility 8 loads, and that will be limit of technology --9 from our perspective, consistent with the Board's 10 decision in the Marlborough-Easterly case -- plus 11 additional commitments to eliminate this 12 facility's contribution of nitrogen to the Seekonk 13 River. We don't have TMDL. We have robust 14 information for developing water quality based 15 upon the effluent limitation and statements in the 16 record that are not equivocal. They're not 17 uncertain. They say required, will be required. 18 So I guess I would say that I would turn to that 19 record and that factual information as a basis for 20 saying -- the other information is more of a 21 backdrop in this matter.

JUDGE SHEEHAN: What about the point

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Page 16 1 that the Region makes about the safety net of 2 having a monitoring network to catch any 3 additional problems and correcting them later? 4 MR. KILIAN: Well, I don't believe that 5 the water quality based effluent limitation 6 regulations or the prior precedents of the Board 7 or the Act itself allows for an incremental 8 approach where you have a record that is clear. 9 And that is what -- and that is the case that's 10 before you with regard to this facility. 11 statements I've read from the record and provided 12 the citations to are oft-repeated. The only 13 time -- I see I'm out of time. I apologize. 14 JUDGE WOLGAST: Go ahead and finish. 15 MR. KILIAN: Where we see equivocation 16 in the record with regard to what the appropriate 17 implementation approach is or plan is would be 18 indicated also in the evaluation study, where 19 there is discussion about cost efficiency. And 20 there is a specific discussion in the evaluation 21 study that talks about the fact that the five at 22 the bigger plants and eight at other plants would

- 1 be the most cost-efficient approach or step to
- 2 take, you know, phased approach, at least as of
- 3 today. But that is not an available avenue given
- 4 the statement of facts here and the controlling
- 5 law.
- 6 JUDGE WOLGAST: Well, you are out of
- 7 time, but I wanted to quickly get your reaction to
- 8 the Region's argument about the phosphorus
- 9 standard and the use of the Gold Book analysis for
- 10 free-flowing streams. They alleged that that was
- 11 noticed and that you didn't comment on that
- 12 choice.
- MR. KILIAN: Well, I would say at the
- 14 outset that we support the Region's conclusion of
- 15 implementing the phosphorus standard in this
- 16 matter. We raised in our petition that concern
- 17 because it jumped out at us in the Region's
- 18 response to our comments as a glaring concern.
- 19 And if additional phosphorus limits are required
- 20 here in order to conform with that guidance, then
- 21 we wanted to make sure to raise that for the
- 22 Board. Our primary effort here today is on the

Page 18 1 nitrogen standard. Thank you. 2 And by way of a question, if I went over 3 time, do I still have time for rebuttal? 4 JUDGE WOLGAST: Yes. 5 MR. KILIAN: Okay. Thank you. 6 JUDGE WOLGAST: Next we'll hear from the 7 District. 8 MR. ANDES: Good morning, Your Honor. 9 My name is Fred Andes. I'm counsel for the Upper 10 Blackstone Water Pollution Abatement District, and 11 I would like to reserve five minutes for rebuttal. 12 I was going to give you some background 13 in terms of the facility we're talking about, 14 including the fact that we've now completed the 15 upgrade, \$200 million upgrade, that was initially 16 planned in 2001. It is now operating. We think that is going to yield significant reductions even 17 18 beyond the permit limits in the original permit 19 limit. But let me go right to the issue raised by 20 Conservation Law Foundation because it does touch 21 on the nitrogen issues we have as well. 22 The claim we've heard is that the

- 1 District should be reducing to the limit of
- 2 technology. As you're aware, there's simply no
- 3 requirement for the limit of technology anywhere
- 4 within the Water Act. The requirement that does
- 5 apply, and we're asking for it to be implemented
- 6 here, is that the District received limits needed
- 7 to retain water quality standards, and our view of
- 8 the record indicates two things. One is that we
- 9 don't know at this point really what is needed.
- 10 We don't even know if the standards can be
- 11 attained. There really is no clear statement by
- 12 the EPA that reductions from the District along
- 13 with reductions from other sources will actually
- 14 get to attainment of the nitrogen standards here.
- JUDGE STEIN: Well, if that's the case,
- 16 then how can they issue the permit?
- MR. ANDES: We believe that instead of
- issuing the permit, they should have gathered
- 19 additional information, including information from
- 20 the District's performance under the original
- 21 permit, to show -- because we believe that
- 22 reductions made from that upgrade were substantial

	Page 20
1	and have not actively been taken into account yet.
2	We believe that there simply wasn't enough
3	information yet for the Agency to move ahead with
4	any reasonable certainty to determine the limit on
5	the
6	JUDGE SHEEHAN: So in the face of severe
7	known impairment, et cetera, the Region should
8	just sit on its hands and not do anything?
9	MR. ANDES: No, not at all. We believe
10	there is scientific research going on right now,
11	that a model is being developed; and in fact, the
12	information will be available by the end of the
13	year phosphorus and nitrogen. We believe the
14	fact there is significant impairment there is
15	no question about that doesn't mean that the
16	Agency can move ahead in an arbitrary and
17	capricious manner. We believe they still need to
18	develop a sound technical basis for the permit
19	limits, and that, we believe, they have not done.
20	JUDGE SHEEHAN: And why do you think the
21	Region didn't develop a sound technical basis?
22	MR. ANDES: Well, on nitrogen, we think

- 1 the primary problem, not the only one, is that
- 2 they relied on the MERL study at the same time
- 3 that they, in essence, dismissed its conclusions.
- 4 They want to put it up there as support for their
- 5 findings and yet they say they're -- it's clearly
- 6 in the record that both EPA and DEP Rhode Island
- 7 in the study indicate that we know this study --
- 8 for example, they say that these differences from
- 9 a natural setting may overestimate the impact of
- 10 given loads. They say that problems when
- 11 encountering modeling interactions in the water
- 12 body -- we are unable to simulate the chemical and
- 13 biological behavior of the system. They say that
- 14 the physical model does not generate a definitive
- 15 level of nitrogen control that can be applied to a
- 16 real world discharge.
- JUDGE SHEEHAN: But is the definitive
- 18 level standard the standard? Doesn't the Region
- 19 have the discretion to do as well as it can to
- 20 come up with a good standard?
- MR. ANDES: Well, we think there is a
- 22 dividing line. We can't simply say in every case,

- 1 well, they've done as well as they can; and
- 2 therefore, it has to work. There has to be a
- 3 point where you say, you know what, you have
- 4 information, and it's not enough, particularly
- 5 when the Agency itself, in responding to CLF's
- 6 argument says, well, we don't really have that
- 7 much confidence in the study and the model. Okay.
- 8 If you don't have that much confidence, you
- 9 shouldn't have used it, you should have gone out
- 10 and collected additional information so you really
- 11 have a reasonable level of confidence in your
- 12 conclusions. We don't think they really have
- 13 that.
- JUDGE WOLGAST: Mr. Andes, how is this
- 15 different from our recent decision in Attleboro?
- 16 I mean there, also, we were dealing with compared
- 17 water bodies where there hadn't been a
- 18 comprehensive wastewater allocation done. There
- 19 hadn't been a DMPL performed, and yet we found
- 20 that the Region could fill the gap even given
- 21 these uncertainties.
- MR. ANDES: Right. In terms of

- 1 Attleboro, we should first sort of put aside
- 2 phosphorus and aluminum issues because, while
- 3 there were some phosphorus and aluminum issues in
- 4 that case, they were very different than the
- 5 issues raised here. As for nitrogen, we've
- 6 reviewed this issue carefully, you can imagine.
- 7 And we believe there is one argument that is
- 8 really on all points with one of our arguments,
- 9 which is the flushing-rate issue, which we still
- 10 believe is a valid issue. But the flushing issue
- 11 problem in the Seekonk River, we believed was
- 12 raised in Attleboro and was disposed of. So we
- 13 are not pursuing that further. But the main
- 14 argument in Attleboro in terms of the model is
- 15 different in significant ways than the argument we
- 16 raised. Our reading of the Attleboro argument
- 17 made by the City was you should not have relied on
- 18 the physical model, you should have relied on the
- 19 Kester model instead. We specifically said in our
- 20 briefs we don't know enough about the Kester Model
- 21 to say whether in fact it's a good model to use
- 22 here. Our argument instead was -- and raised in

Page 24 1 our comments -- that here where EPA has said in 2 the record, A, this information is not sufficient 3 to do a TMDL for the Bay -- I just read you 4 statements about the behavior --5 JUDGE SHEEHAN: Are you saying it's not 6 sufficient or it's not perfect? 7 MR. ANDES: We're saying --8 JUDGE SHEEHAN: Nothing is perfect. 9 MR. ANDES: Understood. Nothing is 10 perfect. We're saying that by the Agency's own 11 admission and the statements from the study, it's 12 not the issue in Attleboro -- which is, well, you 13 should used this one instead of this one. We're 14 saying that the MERL study, based on these 15 statements, including the statements made in 16 response to CLF where the EPA has said, well, we 17 don't really believe in the study all that much, 18 we think that altogether says -- and particularly 19 when you say, well, we can't do a TMDL, but we can 20 do a permit limit. There's nothing in the Water 21 Act that says, well, all right, so the level of 22 scientific technology you need for those two is

- 1 different. You need less of a substantial basis
- 2 to do a permit limit than a TMDL. We said -- so
- 3 when you look at all that, our argument is we
- 4 don't think that the MERL model, based on these
- 5 statements in this record, that EPA has really a
- 6 substantial basis for regulation by its own
- 7 statements.
- JUDGE SHEEHAN: Do you have a different
- 9 opinion technically about the decision reached by
- 10 EPA about what the limit should be? Reasonable
- 11 minds may differ? Is that your argument?
- MR. ANDES: No. Because, in fact, we
- 13 have not said that we think, well, it should be X
- 14 instead of Y, because we don't think that the
- 15 information is in the record to document, first,
- 16 how they can attain standards in this watershed,
- 17 and what is the necessary limit for Upper
- 18 Blackstone to be able to get us there. We don't
- 19 think that information is there in the record yet.
- 20 We think that needs to be developed. There are
- 21 models being developed. There is information out
- there that we think if the Agency, as we've been

- 1 saying all along -- would engage in a dialog on
- 2 that, that we would come to a set of limits --
- 3 and I'm not saying it has to be but it clearly
- 4 has to be a sufficient analysis to support the set
- 5 limit. And we think that can be done.
- 6 JUDGE WOLGAST: Okay. I want to be
- 7 clear about your argument. Are you saying,
- 8 notwithstanding our opinion in Attleboro, that the
- 9 application of the MERL model in this case is a
- 10 basis for error?
- 11 MR. ANDES: Yes. We also believe, in
- 12 terms of other issues, there are other parts of
- 13 their nitrogen analysis here that are problematic.
- 14 One in particular was with respect to delivery
- 15 rates, which is not an issue. This was definitely
- 16 a factor in Attleboro, where there were several
- 17 studies. The initial study said that the delivery
- 18 rate should be 87 percent. We commented and said,
- 19 well, that doesn't consider other sources. EPA
- 20 responded, well, there's another report that does
- 21 consider other sources and that says 73 percent.
- 22 But we're going to make it 87 percent anyway. And

	Page 2'
1	that makes an enormous difference. That makes the
2	difference between a 5 milliliter limit and a 7
3	milliliter limit, which we think we could probably
4	meet right now. So we think that issue also,
5	which was not touched by Attleboro, is sufficient
6	to overturn the limits and remand down for
7	re-examination.
8	I'm not aware of how much time I have
9	left.
10	JUDGE WOLGAST: You have about fourteen
11	minutes. Well, you're reserving your time, so
12	about ten minutes.
13	MR. ANDES: Thank you. In terms of
14	phosphorus, our argument on that has been
15	basically that the Agency's selection of the .1
16	number was again without any basis here. What EPA
17	actually said of phosphorus, well, there are a lot
18	of numbers out there nationally, and we'll pick
19	one; and Upper Blackstone, you should be okay
20	because it's not the most restrictive one.
21	There's no examination at all there of what's
22	not even to the level of nitrogen there's no

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- 1 examination of what's the right number of this
- 2 segment, what's the right number for the Bay,
- 3 what's the right number for this watershed. It is
- 4 simply taking a bunch of numbers that are out
- 5 there around the country and picking one, and
- 6 saying, well, we think that makes sense. We think
- 7 that is particularly problematic given that there
- 8 is additional information being developed on
- 9 phosphorus. It will be available by the end of
- 10 the year. We think, again, if the EPA waited and
- 11 used that information, it could have developed
- 12 numbers. We're saying in all of these issues, not
- 13 that there shouldn't be limits -- we understand
- 14 that this plant would get nitrogen and phosphorus
- 15 limits -- what we are questioning is the specific
- 16 limits that the Agency developed.
- JUDGE SHEEHAN: Why didn't the Region
- 18 directly apply the Gold Book effect standard in
- 19 setting the phosphorus limit?
- MR. ANDES: We think that by simply
- 21 citing to -- oh, well -- if you're referring to
- 22 the argument by CLF in terms of whether they

Page 29 1 applied a .5 or 1.0, our issue really is not that. 2 Our issue was that we think that rather than 3 relying on .1, we thought what they should have 4 done is actually looked at this situation, looked 5 at phosphorus and determined what levels of 6 phosphorus really needed to be in this watershed. 7 JUDGE SHEEHAN: What about looking in 8 the Gold Book to make that call and some of the 9 other criteria the EPA's entitled look at? 10 MR. ANDES: Well, we think they're 11 entitled to look at them, but we don't think that 12 it's simply look at information on the national 13 level, including the Gold Book, and just impose a 14 number without any examination of what's going on 15 with this watershed. On nitrogen they clearly did 16 that. We quarrel with how they did it, but there 17 is no question they actually looked at information 18 in that water body. With phosphorus, they really didn't do that, they just picked a number. 19 20 JUDGE SHEEHAN: Isn't the District the

dominant phosphorus discharger here into the

Blackstone at that point?

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	Page 30
1	MR. ANDES: Yes. But we think that the
2	issue at hand is what's the right water quality
3	target. And there's no question that we're saying
4	the District would need to make significant
5	reductions. In fact, we think that the reductions
6	that have been made already through the upgraded
7	facility that is now online are in fact
8	significantly more than was required in that
9	permit, and. We think that that's part of what
10	needs to be addressed are the reductions what
11	role do the reductions we've already made play in
12	this process. And it's really not there.
13	JUDGE STEIN: Didn't you have an
14	opportunity to put all that information into the
15	record, however? I mean we're dealing with a
16	permit that was issued many years ago, and I
17	mean I've been through your briefs, and what I
18	hear is, well, let's wait. And it strikes me that
19	the original permit has been around for quite a
20	while, and I'm having difficulty seeing the
21	justification for waiting when you had the
22	opportunity to put into this record all of your

Page 31 1 claims about where you are in terms of progress, 2 in terms of your efforts. What's missing? 3 MR. ANDES: Your Honor, what was missing 4 was the fact that the upgrade that we were given 5 eight years to complete was completed on time in 6 August of this year. Until we completed the 7 upgrade, EPA data -- and EPA provided data 8 saying, well, your phosphorus numbers for 2003 9 weren't so good. Well, we were in the midst of 10 doing the upgrade. The upgrade now is complete. 11 The facilities have been turned on. Now is the 12 time when actually we are starting to get data 13 showing the real improvements, including getting 14 down, in fact, significantly below those original 15 limits. So until we had the upgrade complete, we 16 really couldn't provide additional information in 17 terms of how we were going to perform. 18 JUDGE WOLGAST: Mr. Andes, as to time, I 19 misspoke earlier. You have 11 minutes remaining, 20 and you should find it in the right-hand corner of 21 your monitor right there.

Thank you.

MR. ANDES:

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Page 32 1 In terms of aluminum, our other issue, there are really two points that we've been making 2 3 One of them is that, in essence, the Agency has been -- careful evaluation of the aluminum 4 5 data shows that this facility should not receive a permit limit for aluminum. The Agency has gone 6 7 back and forth in terms of which data it's 8 evaluated. It's admitted errors in evaluating the 9 First, it said it evaluated the data a 10 certain way -- it didn't exclude certain data, and it turned out it did. There is one major data 11 point, an outlier of 344 micrograms per liter, and 12 we feel they should exclude it. It makes all the 13 14 difference when you exclude that data point. 15 do not have reasonable potential, and we think, therefore, if the Agency looked at the data 16 carefully and evaluated it in the way that their 17 guidances talk about doing, including excluded 18 19 outliers, they should have concluded there was no 20 limit required. 21 JUDGE WOLGAST: Would you address the 22 point that the Region made in its surreply that

Page 33 1 said that you failed to preserve the issue of 2 challenging the 344 mg/l data point? 3 Our initial -- the MR. ANDES: Sure. 4 issues in terms of the looking at the 344 never 5 came out until the responsive comments from the 6 Agency. In our initial review and in our comment, 7 what we said was, look, if you look at the data carefully -- and we showed them exactly how we 9 proposed looking at the data -- it was clear that 10 a limit was not needed. They had considered some 11 data and not considered other data. We questioned 12 whether they were considering the right data and 13 what their basis was for excluding certain data. 14 We had concern that they were including data which 15 should not have been included and vice versa. 16 the Agency, in response to comment says, well, we 17 went back and we reevaluated the data and we 18 considered some new information and did another 19 analysis, and now we come out showing you have 20 more potential. Well, we looked at that new 21 argument, that new analysis they did, and said, 22 well, wait a minute, we always conceded that that

- 1 344 was out there. We never thought that you were
- 2 going to include it in terms of doing that
- 3 analysis. Now, when we look at your new analysis
- 4 in the response to comments and we start picking
- 5 it apart, we see a number of problems, including
- 6 the use of the 344.
- JUDGE WOLGAST: Was it correct, as the
- 8 Region alleged in their surreply, that you had
- 9 asked -- the District had asked that data between
- 10 2004 to 2008 be included in the analysis, and
- 11 would then this data point fall in that range?
- MR. ANDES: Oh, absolutely. July 9th,
- 13 2007. But when we said initially in our comments,
- 14 well, if you look at the whole database -- when
- 15 our engineers took a look at the whole database,
- 16 that doesn't mean that they take every data point,
- and they don't do any fundamental screening like
- 18 looking at outliers and excluding them. Our
- 19 initial argument was premised on if you look at
- 20 this data, it is clear that we were below the
- 21 levels in the Upper Blackstone. And in fact, it's
- 22 the levels we believe are naturally occurring. So

- 1 our levels vary with the ambient levels. That was
- 2 our initial argument. When they came back and
- 3 said, well, we looked at the data in a different
- 4 way. They still didn't evaluate all the data.
- 5 And they still excluded some things, and they
- 6 included the 344. We said, well, oh, okay, well,
- 7 you're redoing that reasonable potential analysis,
- 8 and you're excluding some data, which we
- 9 contested, and you're including the 344. Now we
- 10 have a problem. So in our initial suggestion that
- 11 they had sort of picked and chose from the
- 12 database and they shouldn't do that, we didn't
- 13 say, oh, and by the way, make sure to include all
- 14 your outliers. We felt the Agency should pursue
- 15 their own values in response to them by not
- 16 including certain data points as you go through.
- 17 It just didn't come off until we saw that they
- 18 were including that data point and said, well,
- 19 wait a minute. Now, if you're going to do an
- 20 evaluation, you're including data we think you
- 21 shouldn't.
- JUDGE SHEEHAN: What about the argument

Page 36 1 that Massachusetts is silent as to what the 2 limited standard might be, site-specific or 3 otherwise? Rhode Island has set the standard at 4 87, and the standard set by the Region here is 87. 5 MR. ANDES: Well --6 JUDGE SHEEHAN: It would seem like 7 it's -- certainly it's not unreasonable for this 8 Region to adapt it as it did here in setting the 9 87 limit. 10 MR. ANDES: Our point beyond the 11 reasonable potential issue, in terms of the 87, 12 was that we thought it's pretty clear from the 13 charts we provided that the levels were naturally 14 occurring. In the response, the EPA said, well, 15 it's not a direct correlation, which I think is 16 not an answer at all. The charts show that 17 basically our levels and the naturally occurring 18 ambient levels rose and fell pretty much in sync. 19 So we think they simply did not engage on that 20 issue, which was, if they were naturally 21 occurring, then the level should be set at that 22 level. The Agency didn't contest that. It simply

	Page 37
1	contested what we said actually I think in a way
2	that didn't deal with our data at all.
3	JUDGE SHEEHAN: Doesn't Massachusetts
4	law say that if the State is silent on the issue,
5	then you go to the 2002 National Water Criteria,
6	which the Region arguably did here, plus the fact
7	that you have your break downstream Rhode Island
8	with an 87 standard. That certainly makes the
9	Region look reasonable here. How do you answer
10	that?
11	MR. ANDES: Well, what the Massachusetts
12	regulation talked about is that in meeting the
13	87 unless the DEP determines that it's
14	naturally occurring. We submitted in our comments
15	the information we felt showed it wasn't naturally
16	occurring.
17	JUDGE WOLGAST: From what source?
18	MR. ANDES: The data?
19	JUDGE WOLGAST: No, no. I'm sorry.
20	What did you allege was the source of the
21	naturally occurring presence of aluminum?
22	MR. ANDES: Our feeling was that we

Page 38 1 cited to documents, I believe, from CLF. 2 that there is evidence of significant amounts of 3 aluminum leaching out of the soils in this area, 4 and that while we couldn't speculate in terms of 5 example how this all occurs, it is clear that 6 putting aside other sources, that the ambient 7 levels of aluminum were pretty high. 8 I'd like to reserve the balance of my 9 time unless there are further questions. 10 JUDGE WOLGAST: You will have five 11 minutes for rebuttal. You're saying that you want 12 to the reserve the four minutes? 13 MR. ANDES: So I have four minutes plus 14 the five minutes; is that what you're saying? 15 JUDGE WOLGAST: Yes. That's fine. 16 MR. ANDES: Thank you. 17 MR. FALLON: Good morning. My name is 18 MacDara Fallon, and I'm here with our co-counsel 19 Karen Crocker. I represent the Massachusetts 20 Department of Environmental Protection. Thank you 21 for giving us the opportunity to present to you 22 our argument on why we feel the Board should

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Page 39 exercise its discretion and grant review of its draft permit from Region I. I'd like to point out that this is the first time the MassDEP has appealed to Region 1 NPDES permit where we dispute the manner in which the Region has proposed to amend an effluent limit. The permit in this matter, as drafted, proposes a nitrogen limit in a manner that is clear error of law and contrary to the claimed nitrogen regulations. In addition, in the imposition of a nitrogen limit as drafted would violate long-standing EPA policies as expressed in both EPA guidance and in the order of compliance and settlement agreement which was previously

- 16 Massachusetts is non-delegated state for
- 17 NPDES permitting purposes. We recognize we are
- 18 not the permitting agency, the Region is.

entered into for this facility.

- 19 However, we issue of our own independent permits
- 20 that must comply at least with the minimum
- 21 standards set forth in the Region I permit. We
- 22 believe the approach taken by Region I in not

Page 40 1 applying the mandatory regulatory requirements, of 2 Section 122.45(f)(1), is wrong as a matter of law, 3 and the result of the imposition of improper 4 federal standard on the Massachusetts permit. 5 Contrary to what is implied in the 6 Region's brief, Massachusetts is committed to 7 having a permit that will meet Rhode Island water 8 quality standards. However, we're committed to 9 having that standard met considering both federal 10 regulations and federal policy. 11 We assert that the Region's clear error 12 of law, as set forth in our brief, is that section 13 122.45(f)(1) is a mandatory requirement; that is, 14 that all pollutants shall have limitations, 15 standards, or prohibitions expressed in terms of 16 There are three exceptions to those named. mass. 17 The Region relies upon the permit's segment 18 section. However, the Region fails to articulate 19 how the applicable Rhode Island narrative 20 standards and limitations are expressed in any 21 other unit of measurement other than mass. 22 believe it is undisputed that Rhode Island's

Page 41 1 narrative criteria does not have an express 2. standard and limitation in other units of measure. 3 Region I committed a clear error of law when it 4 improperly extrapolated a different unit of 5 measurement for nitrogen other than the 6 measurement of mass. 7 JUDGE SHEEHAN: Do you concede that the 8 Region has discretion to apply the limit in terms 9 of concentration in its discretion? 10 MR. FALLON: Yes. But that, I don't 11 believe, is what happened here. 12 JUDGE SHEEHAN: And why was it an abuse 13 of discretion for the Region to conceivably use 14 concentration instead of mass? 15 MR. FALLON: It didn't apply the 16 proper -- well, at this point on the regulatory 17 requirement, it did not apply the proper 18 regulatory standard. We believe it's abuse of 19 discretion that the Region applied a concentration 20 unit of measure as opposed to EPA policy, in terms 21 of encouraging water conservation, and also we

believe it goes against the expression of policy

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	Page 42
1	in the settlement agreement and the order for
2	compliance that was issued for this facility.
3	JUDGE SHEEHAN: But if the Permit
4	Writers Manual allows the Region to use
5	concentration that it might attain greater
6	treatment efficiencies, why is that wrong here?
7	MR. FALLON: Because we don't believe
8	they actually followed the regulatory process they
9	should have followed under section 122.4 I'm
10	sorry 122.44(d)(1).
11	JUDGE SHEEHAN: Can you be specific
12	about that that will help your rationale for
13	that?
14	MR. FALLON: Well, I believe it is quite
15	simple. We think that the regulation requires
16	that mass be used unless there is some other unit
17	of measure in other water quality standards. Here
18	the Rhode Island narrative criteria does not have
19	any unit of measure; therefore, we use mass.
20	THE COURT: So the Region's hands are
21	tied? They cannot use concentration?
22	MR. FALLON: We believe they could use

Page 43 1 concentration in mass under the regulations. 2 that is allowed, but we don't believe that was the 3 method that they followed here in reaching their 4 conclusion. 5 JUDGE WOLGAST: Well, what would be the 6 practical effect here in using mass versus 7 concentration? 8 MR. FALLON: Well, mass allows more 9 flexibility for the facility to operate where they 10 are actually discharging. It doesn't penalize the 11 facility for discharging underneath its allocated 12 effluent discharge, and we believe it's strictly 13 required by the regulations and that it wasn't 14 actually followed, and it should have been 15 followed when it went through this permitting 16 process. We believe EPA had a tough decision in 17 coming to this conclusion, but they skipped the 18 mandatory regulatory requirement to consider mass 19 over concentration and just jumped over that and 20 said we are going to impose a concentration unit 21 because we believe that's the best thing to do. 22 Does that answer your question?

	Page 4
1	The other things you want to refer to
2	and we actually refer to it in our brief are
3	Permit Writers' Manual, also, the policy
4	consideration that was set forth by the settlement
5	agreement and the compliance order. There is no
6	limitation of on nitrogen put in place at that
7	point. Both the MERL study and Rhode Island
8	Department of Environmental Management report were
9	in effect at the time those documents were issued.
10	Those documents were issued in the public
11	interest, and had have no limitations on nitrogen
12	at that time.
13	I see I am out of time. Just in
14	conclusion, we suggest there is a clear error of
15	law based on the wrong standard of concentration
16	over mass. We believe there is a violation of EPA
17	policy. We ask that you exercise your discretion
18	and grant review of this permit and remand it to
19	the Region for modification.
20	JUDGE SHEEHAN: One further question.
21	Did you timely challenge the use of the MERL study
22	in your comments? Did you raise that point then

- 1 or did you not?
- 2 MR. FALLON: I believe we did. Your
- 3 Honor, I'm drawing a blank on the actual reason
- 4 that we did. I believe the District did. I'm
- 5 drawing a blank on the actual comments that were
- 6 made regarding the study.
- JUDGE WOLGAST: Thank you. Now we'll
- 8 hear from the Cities.
- 9 MR. COX: Good morning. My name is
- 10 Robert Cox, and I'm counsel for the District, but
- 11 I'm presenting to you this morning and speaking to
- 12 you on behalf of the four petitioning District
- 13 members, City of Worcester, the towns of Holden,
- 14 and Millbury, and Cherry Valley Sewer District
- 15 with respect to the co-permitting issue.
- The four petitioning District members
- 17 are owners and operators of sewer lines which
- 18 deliver wastewater to the District facility for
- 19 treatment and then discharge to the Upper
- 20 Blackstone River. The four petitioning District
- 21 members as well as the District seek to have this
- 22 Board strike the co-permits at issue from the

Page 46 1 permit. They seek -- or we seek to have it 2 stricken for the simple reason that the Region, 3 the Agency, has no authority to make them 4 co-permittees. 5 The EPA claims that the Clean Water Act 6 in the definition of treatment works -- which 7 broadly includes the words sewer; it also includes 8 the words sewage collections systems -- gives it 9 the power to make the owners and operators of 10 sewers subject to a permitting authority. 11 certainly the definition which the EPA and the 12 Region cite to does include a reference to sewers 13 within treatment works, that does not make an 14 owner and operator of a sewer a permittee. 15 is missing from the EPA's analysis are the 16 operative terms, the terms which trigger 17 permitting, and these are the discharge of a 18 pollutant. That term is defined to mean, quote, 19 "any addition of any pollutant to navigable waters from any point source." 20 21 The four petitioning District members do 22 not discharge from a point source. They send

	Page 47
1	wastewater through sewer lines to the District for
2	treatment. The town where I live, the town of
3	Rutland, has its own sewer lines, which are
4	connected to a sewer line owned and operated by
5	the Massachusetts Department of Conservation and
6	Recreation, DCR. The DCR line goes through the
7	Town of Holden. That line connects to a line in
8	Worcester, and the Worcester line then connects to
9	the District. The District then discharges the
10	wastewater at a point source. It is this action,
11	the action of discharging at a point source, at
12	the Upper Blackstone River, that triggers the
13	permitting and not, as the EPA would have it, the
14	mere ownership of the sewer line ownership or
15	operation of the sewer line that provides the
16	conveyance for the treatment of discharge. This
17	is
18	JUDGE WOLGAST: May I ask you, what
19	otherwise requires say, hypothetically, you're
20	not a co-permittee, what otherwise requires the
21	cities to address inflow and infiltration into the
22	POTW?

	Page 48
1	MR. COX: The relationship with the
2	District, with the District, as the members. It
3	is urging them, as well as the municipalities, to
4	address I&I. The municipalities have been
5	addressing I&I through various funding mechanisms,
6	to study and investigate it and to prevent
7	additional I&I from occurring.
8	JUDGE SHEEHAN: That doesn't sound like
9	any kind of a regulatory call.
10	MR. COX: No. It is not. There is not
11	a regulatory call regulatory provision to do
12	it. The mechanism I would not want this to be
13	brought upon my towns but the mechanism may be
14	enforcement. If there is a discharge from a line
15	that enters or gets into navigable waters.
16	The point that I'm making here with
17	respect to the permittee must be the entity that's
18	discharging from a point source is borne out by
19	the regulations themselves. In subpart B,
20	entitled permit application requirements it's
21	section 122.21 it provides, quote, "Any person
22	who discharges must submit an application, must

- 1 submit a complete application according to the
- 2 section." It's what the District did, but not
- 3 what the four petitioning District members did.
- 4 They never applied. They never signed on the
- 5 application form. They never authorized the
- 6 District when it submitted its application to be a
- 7 participant or co-permittee. The Region, the EPA,
- 8 claims, well, that doesn't matter. It can permit
- 9 regardless.
- JUDGE SHEEHAN: Is it your argument that
- 11 a discharger has to apply in order to be
- 12 regulated?
- MR. COX: That's the way the regulations
- 14 read.
- 15 JUDGE SHEEHAN: So if the discharger
- 16 doesn't apply, the discharger cannot be touched by
- 17 the regulatory body?
- MR. COX: Discharger from a point
- 19 source.
- JUDGE SHEEHAN: So it's up to the
- 21 discharger to basically trigger the regulatory
- 22 regime. If the discharger doesn't step up and

	Page 50
1	sign an application, send it in, the regulating
2	authority cannot touch a discharger into a
3	water
4	MR. COX: They cannot touch an entity
5	that provides the conveyed system.
6	THE COURT: That's a different question.
7	MR. COX: No. I'm stating it
8	differently, because discharge, the way it's
9	defined in the regulations, is discharge of a
10	pollutant to a navigable water. So the only
11	entity that is doing that here is the District
12	that is discharging from their pipe that goes into
13	the
14	JUDGE STEIN: But don't they discharge
15	to the POTW, which in turn discharges, so that
16	what flows into the District's POTW has a source
17	in the these towns has an original source in
18	these towns?
19	MR. COX: They discharge in the sense
20	that wastewater most certainly is sent down the
21	pipes, but in connection with the definitions
22	under the Act in the regulations, that is modified

- 1 and controlled by the discharger from a point
- 2 source to a navigable water.
- JUDGE WOLGAST: But you say that the
- 4 Cities didn't apply -- and I think that's
- 5 undisputed -- but isn't it also clear that the
- 6 Cities have been on notice since the 2001 permit
- 7 that the Region felt that inflow and infiltration
- 8 issues were very significant and a very
- 9 significant issue to be addressed in terms of not
- 10 meeting water quality standards by the POTW
- 11 itself?
- MR. COX: That's correct. And that's a
- 13 matter of record. I think the municipalities have
- 14 been very active in addressing that to the extent
- 15 that it can with the limited financial resources.
- 16 As I said earlier there have been grants and
- 17 monies to address I&I issues. Various studies
- 18 have been done. Worcester has 450 miles of sewer
- 19 which needs to be addressed and to be examined in
- 20 order to deal with the I&I issue.
- JUDGE STEIN: But putting yourself in
- 22 the Region's shoes, they're issuing a permit to

	Page 52
1	the District. We know that these towns contribute
2	discharge to the POTW. We know that there are
3	issues associated with this discharging. Your
4	position is there's no authority whatsoever on the
5	part of EPA to look to those tasks, and yet when
6	they look to the District; what's the District
7	going to say? I'm not responsible; that's the
8	towns' responsibility. How does that scheme make
9	sense?
10	MR. COX: Well, it makes sense because
11	it's what the law provides. In order to
12	JUDGE STEIN: Does it make environmental
13	sense?
14	MR. COX: It makes environmental sense
15	in that we have all parties here looking at the
16	issue and trying to address the I&I. The
17	municipalities are certainly aware of it and are
18	trying to address it. DEP is working with the
19	municipalities to address it. EPA is encouraging
20	and helping the municipalities work with it as
21	well as the District. So in that sense it does
22	make sense to have all these parties looking at

Page 53 1 it. 2 But the issue here is the authority of 3 the Agency to bring these parties in as 4 co-permittees. There is none. And what the EPA 5 says is that the co-permittees need not apply, 6 that they need not consent, that EPA need not even 7 get the right entity that owns the properties. 8 That read, however, leaves out of the regulations 9 this whole section, subpart B, section 122.21, 10 which sets forth the permit application 11 requirements. And that just make no sense, and 12 it's consistent with the statute to require or 13 bring together the discharge of pollutants from a 14 point source to navigable waters to be the 15 triggering mechanism with respect to permitting. 16 For these reasons, we ask -- we ask that 17 this Board strike the co-permitting issue or 18 remand it back to the Region in order for it to do 19 the same. 20 JUDGE STEIN: Am I correct in 21 understanding that there are other permits in 22 Massachusetts that the Region has issued -- and

Page 54 1 perhaps I should address this to the Region --2 that involved co-permittees on the permits? 3 MR. COX: Yes, there are. But that does 4 not make it consistent with the law or legal, that 5 other entities have decided to agree to a 6 co-permitting status. The towns they represent do 7 They do not consent. not agree. They do not 8 believe, as I've articulated here, that the law 9 allows the EPA to bring them in as co-permittees. 10 JUDGE SHEEHAN: So the practical effect 11 here with respect to the legal argument you make 12 is that if the towns are outside of the regulatory 13 authority of EPA, that it's just up to the towns' 14 compliance without any problem or waiting to see 15 if there is any enforcement issue, they just --16 they become cat and mouse really. If there's a 17 mistake, maybe a regulator will come in and catch 18 it, but otherwise, the towns are on their own. 19 that what you're saying? 20 MR. COX: I'm saying that is one mechanism available to the EPA. What I failed to 21 22 mention, and I mention now, is that there are

Page 55 1 regulations under the State, that 314 CMR -- 312 2 -- 314CMR12, which governs the municipalities with 3 respect to the operation of the sewer lines. 4 we are regulated by the State but not through this 5 permitting scheme as co-permittees, as EPA sought 6 to impose as co-permittees. 7 Thank you very much. 8 MS. MCGUIRE: Good morning. Karen 9 McGuire for the Region. I'm joined by my 10 colleague, Amanda Helwig, as well as Peter Ford of 11 I am going to speak to nutrients and the 12 co-permittees, and Ms. Helwig will address the 13 aluminum modification. I'd like to reserve about 14 ten minutes for her, but we're flexible. 15 Let's start with nitrogen. The Region 16 used the same approach here as we did with the 17 permits to the watershed in Attleboro. 18 obviously relied on standards for the Marlborough 19 model and other studies and the same factors 20 having set forth here on this record, including, 21 among other things, the severe environmental 2.2 impairments in the receiving waters. And here, as

- 1 in Attleboro, we were up front that by using the
- 2 physical model, there were inherent and
- 3 unavoidable uncertainties in our approach. And,
- 4 again, with Attleboro, we acknowledged them,
- 5 identified them, and rationally accounted for
- 6 them.
- 7 I want to pause on the Region's
- 8 conclusion of our water quality experts related to
- 9 those uncertainties. There's been some retelling
- 10 of our view of MERL. It's suggested we didn't
- 11 think it was a good model. You will find that in
- 12 the record and also our conclusions related to the
- 13 uncertainty. The differences between the model
- 14 and the record, of course, is the touchtone
- 15 four-year review. What that makes clear as well,
- 16 the Region's experts concluded that MERL was an
- 17 analog, strong analog, of what was occurring. The
- data and the data ending in 2004 is on the reports
- 19 edited by CLF, pages 11 and 12. There's data that
- 20 does show for a given comment -- given loading,
- 21 MERL does indeed over-predict the response in the
- 22 receiving water. And the record also shows that

- 1 the Region identified differences between their
- 2 model and the natural setting such as flushing,
- 3 stratification, and over- and under-predicted.
- 4 And on the balance concluded that MERL did
- 5 over-predict. So we could not go where CLF is
- 6 urging you to direct us to go. We concluded we
- 7 could not just develop a limit based on 2X to 4X
- 8 output of MERL. And asking us to to do that is
- 9 asking us to ignore the uncertainties, ignore the
- 10 science, and not exercise our judgment and
- 11 expertise and to simply apply the model in
- 12 isolation.
- JUDGE STEIN: How do you square the
- 14 Region's conclusion with the Board's statements in
- 15 DCMS4 and in the Marlboro case? The Region has
- 16 used language that is consistent with water
- 17 quality standards; whereas, my recollection of the
- 18 regulatory language as well as what the Board said
- 19 in those other two cases is that the Region needed
- 20 to be able to ensure compliance. So I wondered if
- 21 you could explain to me how and why we should
- 22 construe "consistent with" to be the functional

- 1 equivalent of the regulatory language.
- MS. MCGUIRE: I think, Your Honor,
- 3 although there are much more affirmative
- 4 statements in the records, that may be an inartful
- 5 choice of words. Again, the Region was very up
- 6 front in terms of the uncertainties that I just
- 7 described that we're facing.
- 8 Let's speak to Marlborough, the answer
- 9 is very different. In Marlborough, the record
- 10 there suggested that in addition to a numeric
- 11 limit, we thought that other conditions might be
- 12 necessary to meet standards, in particular
- 13 addressing the phosphorus that had accumulated in
- 14 sediments. You remanded as there were no --
- 15 there's no monitoring, no reopening -- nothing in
- 16 the permit addressing sediments. While there are
- 17 uncertainties in applying the physical model to
- 18 the natural setting, as we're facing here in this
- 19 permit, no one has identified another condition.
- 20 We haven't. No one else has. Or a prerequisite.
- 21 We haven't addressed that's necessary to meet
- 22 standards here.

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1	In terms of more affirmative language, I
2	direct you to responses by F6, 18A in the record,
3	walk through the applicable statutory regulatory
4	standards, make clear that the Region understands
5	what its obligation is here, have more affirmative
6	language regarding what we're expecting
7	anticipating to see in terms of significant
8	reductions here, your Honor.
9	THE COURT: I guess to follow up on
10	that, you have a problem or at least an issue.
11	You've got the data which seems to say three won't
12	do it. Now, I know you're trying to account for
13	that, but you have that at one extreme. At the
14	other extreme you have the Marlborough "will
15	ensure compliance" standard. And then, like Judge
16	Stein said, you have been consistent with language
17	which seems fairly diffident. You have in the
18	fact statement you say five is necessary in order
19	to achieve, which maybe is a little bit better,
20	but it is a little bit nominalist even after
21	Marlborough in Region I, the words "will ensure
22	compliance" did not come out of the Pogion's mouth

Page 60 1 in this situation. So it does raise a flag. 2 MS. MCGUIRE: I gave to you -- in terms 3 of other references I gave you, I also believe in 4 our responses to F51, I think you will find more 5 of the affirmative language you're looking for. 6 JUDGE SHEEHAN: Do you use that 7 language? I don't have it in front of me. 8 MS. MCGUIRE: Just the citation in my 9 response to comments in terms of the Region 10 indicating we're imposing a limit of five here 11 that we believe will ensure standards. 12 of language. 13 To address one point you raised, we do 14 not believe that the December 2004 report -- the 15 record shows the Region's -- the statements, for instance, cited on page 27 of the report by 16 17 counsel for CLF, they're consistent with what we 18 are saying and are showing that going to 2X to 4X19 is MERL in isolation, going to that three limit, 20 wrote it right into this report. It continues to 21 say there are uncertainties and differences in the

Rhode Island in their amicus brief is

22

model.

Page 61 1 endorsing the approach we've taken here. 2 water quality experts are not coming to that 3 conclusion reading this report, Your Honor. 4 JUDGE SHEEHAN: But even as late as your 5 brief in opposition, on page 62, I think, you talk 6 about the fact that their standard is rational or 7 it rationally accounts for what the studies show, 8 and that your conclusions are saying again, well, 9 in condition of reasonableness. Reasonable, 10 again, doesn't sound like ensure. 11 MS. MCGUIRE: We do not have a 12 calibrated mathematical model here, so our 13 analysis does not lend itself to generating a 14 precise number that we can drop into a permit. 15 are being candid about the uncertainties we face, 16 but we are using our best technical judgment to 17 identify, account for the different ways the 18 uncertainty cuts in applying the outputs of MERL 19 to define the loading that we think is going to 20 support standards being met in the upper Seekonk, 21 and that's the limit we've calculated here, Your 22 Honor.

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1	JUDGE SHEEHAN: So apart from some of
2	the records received and some of the linguistic
3	characterizations of how you include it here, can
4	you point to us in the record itself, the
5	technical record, where the facts are to support
6	the limit of five even apart from how you
7	characterize it, the brass tacks, bottom-line
8	facts in that record?
9	MS. MCGUIRE: The citations I gave you
10	are the most detailed in terms of the development
11	of the nitrogen, Your Honor, in addition to the
12	fact sheet.
13	JUDGE WOLGAST: You're saying that's
14	Exhibit 15a and
15	MS. MCGUIRE: They're not exhibits, Your
16	Honor. I believe they are in if you're looking
17	for our explanation rather than reports, I would
18	direct you on nitrogen F6, F18A and also F51.
19	JUDGE STEIN: Let me ask one more
20	question about this because I think this issue is
21	of great importance, and it's of great importance
22	to this Board because this will be the third

- 1 occasion in the past several years in which an
- 2 issue -- it may be more -- but I sat on the DCMS4
- 3 panel and I sat on the Marlborough panel, so the
- 4 concern I have is not that there's uncertainty,
- 5 because I think as we made clear in Attleboro and
- 6 other cases, there is an issue of uncertainty in
- 7 all of these permit-type cases, but I want to be
- 8 sure that what we're dealing with here is perhaps
- 9 an inartful use of wording and not a watering down
- 10 of what the regulations really call for. And
- 11 frankly, where I land on that issue in this case
- 12 will really determine down the road what's in the
- 13 record, what's not in the record. Going back to
- 14 DCMS4 there was -- there was no analysis at all,
- 15 so it's a very different case than we have here.
- 16 But I'm trying -- if I understand you correctly,
- 17 what you're saying is it's not lack of analysis
- 18 here, it's perhaps an inartful choice of words, or
- 19 are you saying something different?
- MS. MCGUIRE: The specific quote I made
- 21 might have been from a fact sheet that was given
- 22 to me. In isolation, well, perhaps that is

	Page 64
1	inartful. Again, our water quality experts
2	looking at this are straightforward people. They
3	are acknowledging that this is there are
4	unavoidable uncertainties here doing their best
5	on their judgment to give the right limit here.
6	We could have crafted that differently. We could
7	have taken out any and all language talking about
8	uncertainties to alleviate this concern, but we
9	chose not to. What we're trying to do is just be
10	straightforward identifying when we're dealing
11	with them, but we're recognizing we don't have a
12	callibrated mathematical model here.
13	JUDGE STEIN: But in the Region's
14	judgment, the Region's technical judgment, the
15	number that you have come up with for this limit
16	you believe will show compliance with standards?
17	MS. MCGUIRE: This is our best technical
18	judgment of the limit that is necessary to result
19	in the response variables in the Bay that will be
20	adequate to support standards, Your Honor.
21	JUDGE WOLGAST: That's a yes?
22	MS. MCGUIRE: That's a ves. Verv

- 1 briefly, on the differences related to
- 2 attenuation, the details are outlined in our
- 3 brief. At the very best there is a difference of
- 4 opinion on some technical judgment, and this is
- 5 setting aside your recent decision in Attleboro
- 6 regarding the use of attenuation in the development
- 7 of effluent limitation itself. Our brief and
- 8 response to comment outline various studies. We
- 9 looked at three of them, and why we selected the
- 10 value we did, taking into account a number of
- 11 scientific technical factors.
- I want to turn briefly just to the issue
- of the exception of concentration mass, the
- 14 expression of limits in the regulations in
- 15 122.45(f)(1) as not being accepted. We do believe
- 16 that the exception of laws here, which, again,
- indicates that where the underlying standards or
- 18 limitations are expressed in the unit of the
- 19 measurement under mass, that the effluent
- 20 limitation also may be. And what was missing from
- 21 the MassDEP's presentation earlier is that the
- 22 clinical standards of Rhode Island's narrative

- 1 speaks to the control of concentrations of
- 2 nutrients and that's the narrative 83-D10 that
- 3 we're interpreting here. And Massachusetts has
- 4 very similar narrative language and has not
- 5 objected to our crafting of phosphorus limits in
- 6 this permit or in Attleboro in terms of
- 7 concentration. Rhode Island has interpreted its
- 8 own narrative and is moving forward with nine
- 9 other permits to other facilities that discharge
- 10 to the Bay expressly in terms of concentration.
- 11 In the various national guidance documents --
- 12 there's also a Commonwealth study that's in the
- 13 record recommending some protective nitrogen
- 14 limits -- protective nitrogen thresholds. I think
- 15 it's Exhibit 20. MassDEP expresses those
- 16 recommended thresholds in terms of concentration.
- 17 If there are no other questions on
- 18 nitrogen, I'll turn to phosphorus.
- JUDGE WOLGAST: Would you explain why
- 20 the Region used the .1 instead of the .5 standard
- 21 that would apply to impairment of water quality?
- MS. MCGUIRE: As we did indicate in --

Page 67 1 just preliminarily, the argument comes very late 2 and we don't believe preserves -- our focus was on 3 the region downstream where we had documentation 4 of the significant impairments. No one in the 5 entire record -- and there were also 30 comments 6 where the Commonwealth brought this issue to our 7 attention during the permitting, Your Honor. We 8 also, as Your Honor alluded to, did explain why we 9 selected a fact-based approach in lieu of 10 referenced-based approaches. We did evaluate 11 site-specific studies here documenting the 12 impairments as well as calculated what the 13 in-stream concentration would be of a discharge 14 allowed under the expired permit limit of 750 15 micrograms per liter, and that was 682 micrograms 16 per liter, so well in excess of the protected 17 target that we had identified. 18 With regard to the District's 19 suggestions that there is some model of some 20 output around the corner that is not in the 21 record, to the extent counsel is referring to the

model that the District has undertaken, those all

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- 1 actually were -- nothing on that topic or issue
- 2 was provided during commentary on the record. The
- 3 District simply appended some models and
- 4 simulations to a petition as an exhibit, so they
- 5 were procedurally late.
- Additionally, as we pointed out, there's
- 7 no evidence that runs have been calibrated. So by
- 8 acknowledging the efforts the District is
- 9 undertaking to do some modeling investigation in
- 10 the Blackstone, certainly not regulatorily
- 11 required, there is nothing being offered here to
- 12 us as available for our use in this determination
- 13 or anything around the corner.
- On co-permittees, oh, excuse me, I have
- 15 to backtrack. The limit for phosphorus we had
- 16 entered in the brief -- we missed CLF's challenge
- 17 to this. In addition to the summer limits of .1,
- 18 there is a limit of one. And CLF very briefly in
- 19 its petition on page 21, does also challenge the
- 20 winter limits. We respond that the winter limits
- 21 are preserved and comment that CLF just very
- 22 broadly said that the Region should consider full

Page 69 1 year-round limits. We responded on page eight of 2 the response to comment that indeed, we did, for 3 phosphorus, have the limit of one. We also went 4 further and explained that the reason it was one 5 was based on an evaluation of phosphorus in the 6 effluent of four POTWs that discharged to the 7 Assebet River in Massachusetts, showing that the 8 vast majority of phosphorus would be 9 ortho phosphate monitoring requirement in the 10 permit. CLF has not confronted the Region 11 technical responses on this. 12 JUDGE WOLGAST: As to the co-permittee 13 issue, why isn't the Cities' argument compelling? 14 MS. MCGUIRE: Preliminarily, it's not 15 preserved. In the petition the District -- the 16 community and the District argued that we should 17 have issued several permits. Now, the theory has 18 evolved that we are not authorized to issue 19 permits. What we're trying to do here, Your 20 Honor, is regulate the whole -- the treatment works here -- the whole POTW, not a portion of 21 22 it -- the District operating the treatment

	Page 70
1	facilities owning and operating those and a
2	number of municipalities owning and operating the
3	collection systems. The definition of POTW under
4	the Clean Water Act, EPA's regulations, covers
5	both. It covers the treatment facilities. It
6	covers all the pipes, the electrical equipment,
7	the conveyance to the pumping stations, to get all
8	that waste to the treatment facility and
9	JUDGE SHEEHAN: How far upstream does
10	your reasoning on that point go? Does it go
11	beyond the cities to individual homes that had
12	pipes going to the
13	MS. MCGUIRE: No, Your Honor. If you
14	look at if this were one single entity, only
15	the POTW, we would regulate it in the same way,
16	and it's not a big, significant portion of the
17	POTW here. In one of the annual I&I reports, we
18	did receive from the District that's in the
19	record, it's document 88 in the record, the
20	District had a presentation indicating we're
21	talking about 600 miles of sewers, eight pumping
22	stations, 23,000 manholes, and if we did not have

	Page 71
1	this political legal separation of entities, we'd
2	be regulating the whole. We'd have standard O&M
3	conditions that we include in every permit, that's
4	at 122.41(a), that required proper operation and
5	maintenance of the whole thing. So that's all
6	we're trying to do. We're trying to respect and
7	honor what's being represented to us, told to us,
8	that these are separate distinct entities.
9	JUDGE SHEEHAN: I understand what you're
10	trying to do, but if the District itself is the
11	axle and the seven or eight, whatever number,
12	cities we have here that you included as
13	co-permittees are the spokes leading into that
14	axle, my question is more a matter of just pure
15	law, how many other mini-spokes out beyond these
16	eight or so cities can you reach legally, putting
17	aside whether you should or what you're trying to
18	do. I'm looking at the question as a matter of
19	law not practicality.
20	MS. MCGUIRE: Thank you, Your Honor. We
21	can regulate that which is legally part of the
22	POTW that falls within the definition of POTW

	Page 72
1	And no one is contesting that it makes sense to do
2	this work in light of O&M. The need for O&M is to
3	reduce the occurrence of the tank or sewer
4	overflows, access I&I. No one is challenging that
5	this makes sense.
6	JUDGE WOLGAST: So if a hospital
7	connects with a District's piping, would they be
8	susceptable to being a co-permittee?
9	MS. MCGUIRE: Not a private entity, Your
10	Honor, no. I mean not a user of the POTW.
11	JUDGE SHEEHAN: But why not? If the
12	hospital has, from 2128 of the Act, if the
13	hospital has a sewage collection system and is
14	sending it out, or whether from 4433 re, that if
15	hospital has conveyances to send the sewage out,
16	why aren't they as much a part of the regulatory
17	system, ideally anyhow, as the cities?
18	MS. MCGUIRE: Because we are defining a
19	publicly operated treatment works, so it is not
20	the lateral from my house to a municipality main.
21	JUDGE SHEEHAN: So it's the public.
22	MS. MCGUIRE: Correct.

1	Page 73  JUDGE STEIN: How do you respond to the
2	arguments that were made that these entities are
3	not discharging pollutant; and therefore, with
4	respect to before they even come within the scope
5	of a treatment works, they're not discharging
6	pollutant and therefore you have no legal
7	authority to regulate them?
8	MS. MCGUIRE: The discharger in that
9	case is the one that we have always permitted at
10	the out fall at end of the District's plant. We
11	considered these entities part of the whole POTW.
12	So it's part of the whole treatment works. It is
13	not
14	THE COURT: So is it relevant whether
15	they discharge effluent and they're part of the
16	treatment works?
17	MS. MCGUIRE: The discharger is the one
18	at the end point, Your Honor.
19	JUDGE STEIN: So are you saying if
20	they're discharging they contributed to it, or are
21	you saying that's not a discharge?
22	MS. MCGUIRE: We're saving the only

Page 74 discharge -- the discharge that is permitted is 1 2 the District's discharge at the outfall by -- just by virtue of, again, political boundaries. 3 municipalities are separated. Those collection 4 5 systems are separated, so we're just covering the 6 entire POTW. 7 JUDGE WOLGAST: And what requirements 8 could you impose on the Cities by calling them 9 co-permittees that you can't by issuing a permit to Upper Blackstone District? 10 11 MS. MCGUIRE: We are not anticipating 12 requiring anything other than what types of requirements here, that the co-permittees are 13 14 required to properly operate and maintain their 15 respective portions of the collection system to 16 develop plans to control I&I. So the requirements 17 that we've come up with relate directly to what they own and operate as part of the POTW, Your 18 19 Honor. 20 JUDGE WOLGAST: But I mean isn't it the 21 distinction that you could enforce, again, 22 directly against the City because they are the

Page 75 1 co-permittee? 2 MS. MCGUIRE: If they fail to develop a 3 plan or submit it and it was required by the 4 permit, that would be --5 JUDGE WOLGAST: Which you couldn't 6 otherwise do. 7 MS. MCGUIRE: Right now there is no 8 requirement that the co-permittees do this and 9 require permits. What we have required is that 10 the Districts are in the capacity of a facilitator 11 and just try to obtain voluntary cooperation on 12 these issues. 13 JUDGE WOLGAST: What authority other 14 than the definition of POTW are you pointing to? 15 And specifically, I am interested in guidance, 16 past possible relevant preamble language, the 17 Permit Issuers' Manual. I have to say I've read a 18 lot of these things and I haven't read anything 19 that speaks to this scenario. I mean you have 20 some very clear statements in the Permit Writers' 21 Manual that say you don't have to have a permit if 22 you, yourself, are not discharging into the water

Page 76 1 of the United States, but in all of the guidances 2 I see nothing that interprets the definition of 3 POTW in this manner, and if you could point me to 4 it. 5 MS. MCGUIRE: I do not have a citation 6 for Your Honor, other than what I've relayed to 7 you. 8 JUDGE SHEEHAN: I like to go back to 9 Judge Stein's prior inquiry. I'm not sure I 10 picked up everything, but is your point that 11 discharge from one of these municipalities, as the 12 co-permittee here, is a discharge because their 13 sewage is sent downstream as opposed to discharge 14 in the normal sense, which is into a water of the 15 In fact, if Millbury's discharge never 16 leaves the pipe, continues down through the Upper 17 Blackstone District Treatment Plant, comes out of 18 Upper Blackstone's outfall, is that a discharge by 19 Millbury or a discharge by Upper Blackstone? 20 MS. MCGUIRE: Again, our approach 21 here -- we think of this as one big POTW and

there's one discharge here.

22

Page 77 1 JUDGE WOLGAST: How does that -- explain 2 how that fits with the fact that these are 3 separately owned and operated entities, albeit 4 entities that then contribute discharge to the 5 main, the Upper Blackstone POTW. 6 MS. MCGUIRE: So meaning -- I'm sorry, 7 Your Honor. Well, by Massachusetts JUDGE WOLGAST: 9 law, it's not such an amoeba. I mean isn't that 10 right? I mean --11 MS. MCGUIRE: No. 12 JUDGE WOLGAST: -- that's what we see in 13 the briefs, that under Massachusetts law these are 14 very separate entities. 15 MS. MCGUIRE: Correct. But it's 16 unattenable to us, because of the political and 17 legal separation, to not be able to regulate a 18 large part of the POTW. And there's no dispute 19 that what we're trying to do here -- no one is 20 disputing that it makes sense in terms of 21 controlling the high levels of I&I that are coming 22 through the facility are reducing FSOs.

Page 78 1 And does the District JUDGE WOLGAST: 2 have any ability to require that the Cities 3 address I&I or address it in a certain manner? 4 The District has told us MS. MCGUTRE: 5 We don't feel like there are a lot of great alternatives here. We could, for instance, ask 6 7 the District to go back to the Massachusetts 8 legislature and get authority to be able to take 9 care of these issues or regulate it, but what is 10 being relayed to us is that we are separate, we 11 cannot control operation and maintenance, so we 12 are trying to honor that which is effectively 13 regulation of the whole. 14 JUDGE SHEEHAN: You're using words like 15 effective, unattenable, and sense, all of which 16 are fine words, but they are more policy-ridden 17 legal words, and we're struggling to get the legal 18 authority you have as the District guardian to 19 address -- and discharge is your word -- as 20 regulated discharges. It's difficult to see that. 21 And on the point just a moment ago about whether 22

or not the District has the authority to regulate

	Page 79
1	I&I by the municipalities that feed into it, the
2	permit itself says that each is individually
3	responsible, right? So whether the authority
4	exists, you are saying each town needs to take
5	care of its own I&I affairs, right?
6	MS. MCGUIRE: Correct. And to
7	summarize, we believe the authority to do this
8	comes from the statutory and regulatory
9	definitions of POTW, similar requirements that we
10	impose with the collection systems, the general
11	O&M requirements in our regulation that we apply
12	to the whole POTW.
13	JUDGE SHEEHAN: And the hospital, the
14	hypothetical raised by Judge Wolgast, if that
15	hospital were public, could you include it in this
16	permit legally not that you should or would
17	but could you
18	MS. MCGUIRE: I'm having trouble
19	following
20	JUDGE SHEEHAN: Well, you said
21	MS. MCGUIRE: your question because I
22	mean I can't imagine if there were ever a hospital

Page 80 1 that a POTW would --2 JUDGE SHEEHAN: Well, you said --3 JUDGE WOLGAST: Well, as Judge Sheehan 4 is saying, I mean you told us that there may be 5 other industrial users, but they're private. 6 There may be a hospital, there may be a paper 7 mill, there may be something else. But this is 8 why you can reach these cities is because they're 9 public. And Judge Sheehan's question is if there 10 is another public entity other than a city, can 11 you reach out and make them a co-permittee? 12 MS. MCGUIRE: If it's part of --No. 13 we're regulating here the same way we would if 14 this were just the City of Worcester and it owned 15 the treatment works. So we're taking the 16 authority just as far as we would in that case --17 what fits within the publicly-owned treatment 18 works in that case. So we're not trying to go to 19 users whether they be publicly owned. 20 apologies if I confused you there. We're handling 21 this the same way we do for the many permits we 22 have where one municipality owns the whole thing.

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1	JUDGE WOLGAST: Okay. So I don't I
2	didn't understand your point earlier. And if
3	there is an industrial facility that feeds into
4	the Upper Blackstone plant, then under that logic
5	they could be co-permittees as well?
6	MS. MCGUIRE: No. Your Honor, they
7	would be handled per our pretreatment
8	requirements. An industrial user that is
9	JUDGE WOLGAST: But the point is the
10	Agency has issued federal regulations, right, that
11	preempts pretreatment of industrial users. That
12	doesn't make it theoretically different for this
13	purpose, for the purpose of an analysis of whether
14	they could or couldn't be a co-permittee. You're
15	just saying they got taken care of by another
16	federal mechanism that this Agency didn't choose
17	to apply to municipalities.
18	JUDGE SHEEHAN: And doesn't Clean Water
19	Act section 212.2(a) define treatment works as
20	including industrial wastes municipal sewage or
21	industrial wastes?
22	MS. MCGHIRE: What the treatment works

Page 82 1 is handling, yes, Your Honor, what the flow that 2 is being handled by the POTW. 3 JUDGE SHEEHAN: The definition includes 4 industrial wastes as well as municipal wastes, 5 right? 6 MS. MCGUIRE: Yes, Your Honor. 7 JUDGE STEIN: I don't know whether there 8 is anything in this record that shows whether any 9 other permits that EPA has issued include 10 co-permittees in Region I or otherwise. 11 MS. MCGUIRE: I believe we have, Your 12 Honor, taken this approach with the Greater 13 Worcester District in Massachusetts. I do not 14 know if any other permits have issued in draft, 15 but I could correct the record if that's of 16 interest to the Board. 17 JUDGE WOLGAST: And those are not 18 challenged? 19 MS. MCGUIRE: I do not believe so, Your 20 Honor. Also, I believe I've located -- no, excuse 21 I am happy to provide a list if that's of 22 interest to the Board. Thank you.

- 1 MS. HELWEG: Good morning, Your Honors.
- 2 I'm Amanda Helwig for the Region. I'll be
- 3 discussing aluminum.
- 4 As a foundation, aluminum is toxic to
- 5 wildlife. The aluminum concentrations in the
- 6 Blackstone River at the point of the District's
- 7 discharge are already above the chronic criterion.
- 8 Additionally, the aluminum concentrations in the
- 9 District discharge exceed the criterion on
- 10 individual dates as well as on average. Based on
- 11 the District's reasonable potential to cause or
- 12 contribute to a violation of water quality
- 13 standards, the aluminum limit of 87 is warranted
- 14 in this case. I'm going to address three specific
- 15 issues on the aluminum limit: The appropriateness
- 16 of the Region's approach in setting the limit, the
- 17 inclusion of the 344 value, and the naturally
- 18 occurring argument.
- 19 As to the appropriateness of the
- 20 Region's approach, the District has not sustained
- 21 its heavy burden of showing that the region erred
- 22 in setting the aluminum limit. The District

- 1 effluent data evaluated under multiple different
- 2 scenarios clearly demonstrate a reasonable
- 3 potential to cause or contribute to violations of
- 4 water quality standards. As shown in response to
- 5 comments, even using all of the data as the
- 6 District requested demonstrates reasonable
- 7 potential. Any suggestion by the District that we
- 8 were selective in the use of the data must fail.
- 9 We followed a methodology clearly and accurately
- 10 articulated in the statement of basis. We
- 11 determined reasonable potential based on the
- 12 District's average aluminum effluent
- 13 concentrations during typical low flow months.
- 14 But the fundamental point here is that this
- 15 dataset evaluated in many different ways
- 16 consistently supports a limit of 87 on the
- 17 District's discharge to ensure compliance with
- 18 water quality standards. The only way to reach
- 19 the District's desired outcome is to average in
- 20 the aluminum effluent data and exclude the 344
- 21 volume.
- So turning to the 344 data point, the

- 1 Board did not need to reach this issue on
- 2 procedural grounds alone. The District did not
- 3 request that the Region exclude this data point in
- 4 its comments. Rather, as the Board noted before,
- 5 the District asked the Region to use all of the
- 6 data collected between 2004 and 2008 and
- 7 specifically referenced the 344 data point in its
- 8 comments.
- JUDGE SHEEHAN: What about the
- 10 District's argument that you inordinantly relied
- 11 on a high-flow data?
- MS. HELWEG: We did not, Your Honor. As
- 13 accurately set forth in the statement basis, we
- 14 looked at the District's aluminum data collected
- 15 during typical low-flow months. That is the
- 16 standard Region's practice. And the District's
- 17 assertion, as well, that our use of the 344 data
- 18 point came up for the first time in responses to
- 19 comment is clearly inaccurate. On seven and page
- 20 ten of the statement of basis we describe our use
- 21 of the 344 value along with the other points
- 22 applied to typical low flow areas.

	Page 8
1	JUDGE SHEEHAN: Does that statement of
2	basis explanation differ somewhat from the
3	response to comments explanation?
4	MS. HELWEG: It does, Your Honor. Based
5	on a miscommunication among the permittee, the
6	response to comments did mischaracterize our
7	process by stating that we had cross-checked the
8	actual flows of the data points collected during
9	typical low-flow months. That did not occur.
10	However, had we done that, that would also support
11	the limit of 87 in this case. And in our response
12	to comments, we fully responded to the District's
13	comments and evaluated the data fully as the
14	District had requested.
15	Turning back to the 344 data point on
16	the merits, the District did not create its burden
17	of showing why this data point is aberrational
18	such that it is not representative of the
19	District's discharge. The District has not
20	offered any explanation beyond a vague reference
21	to changing weather conditions for what caused
22	this aluminum concentration or why this

Page 87 1 concentration could not occur again. The Region 2 must account for situations that could occur again 3 in the future. Our regulations specifically 4 instruct us to consider effluent variability in 5 our reasonable potential analysis. Therefore, we 6 cannot just exclude data without reason. 7 unless the 344 data point resulted from 8 circumstances unlikely to reoccur, the Region must 9 consider this data point in its reasonable 10 potential analysis. 11 So lastly, turning to the naturally 12 occurring argument, first and foremost as the 13 Board alluded to earlier, MassDEP has not made a 14 determination that naturally occurring background 15 concentrations of aluminum exceed the national 16 recommended criteria in the Blackstone River. 17 Similar to the Board's finding in Attleboro with 18 respect to the development of site-specific 19 aluminum criteria, the Massachusetts water quality 20 standards reserve naturally occurring 21 determinations to the State. In the absence of 22 such determination, we must apply the national

- 1 recommended criteria to ensure compliance with
- 2 water quality standards.
- Furthermore, the District's argument
- 4 rests on the theory that acid rain caused aluminum
- 5 to leach from soil and rocks into the Blackstone
- 6 River. However, the District has yet to explain
- 7 how acid rain is naturally occurring.
- 8 Additionally, even if acid rain was naturally
- 9 occurring, the District has not demonstrated that
- 10 natural background concentrations of aluminum
- 11 exceed the criterion. The District heavily relies
- 12 on the late submitted Kendall and tributary
- 13 sampling data collected seven miles upstream from
- 14 the District which is not even before the Board.
- 15 Nevertheless, even these data do not support the
- 16 District's argument. The average aluminum
- 17 concentration at the Kendall transfer station is
- 18 substantially lower than the criterion. And in
- 19 relation to the background concentration at the
- 20 point of the District's discharge, the District
- 21 has completely dismissed the fact that numerous
- 22 potential ambient anthropogenic sources of

- 1 aluminum exists upstream from the District,
- 2 including the City of Worcester, the second
- 3 largest city in Massachusetts, with runoff from
- 4 city streets. And the drinking water treatment
- 5 facility produces aluminum and in its process
- 6 discharges backwash water from this process into
- 7 the Blackstone River.
- 8 So for these reasons the District has
- 9 not demonstrated that the background
- 10 concentrations of aluminum in the Blackstone River
- 11 are naturally occurring.
- 12 If there are no other questions by the
- 13 Board, I would assert that the Region did not show
- 14 clear error, and the Board should not deny the
- 15 review this issue. Thank you very much.
- 16 MR. KILIAN: Thank you. Again, Chris
- 17 Kilian for Conservation Law Foundation.
- 18 Narragansett Bay does not have time. We have a
- 19 severely impaired waterway that has no similar
- 20 capacity for discharges of nitrogen remaining. We
- 21 don't have to time to wait. We have fishkills,
- 22 eelgrass bed disappearance. It's time to take

- 1 action, and it's time to take the right action.
- 2 Based on this record, there are clear statements
- 3 in the key study relied on by EPA, prepared by
- 4 Rhode Island DEP, that the limit of technology is
- 5 required. Those are not my words. Those words
- 6 are written on the page with the citations I
- 7 provided to the Board. Again, page 23, throughout
- 8 that document and down to the end.
- JUDGE WOLGAST: Would you address the
- 10 Region's argument that they had the discretion to
- 11 take the 2004 study as well as other data and to
- 12 apply their own scientific expertise and also with
- 13 consultatation provided to come up with the five
- 14 limit?
- MR. KILIAN: We do not agree with that
- 16 argument. We do not agree with that point of
- 17 view, and we believe that the record of underlying
- 18 scientific data and information here speaks for
- 19 itself. Where uncertainty is discussed in the key
- 20 study -- again, this is the evaluation study that
- 21 I referred to before -- it is addressed through
- 22 corroborating evidence that is used to support the

- 1 conclusions of the MERL tank studies.
- 2 Specifically, again, pages 26 and 27, there is an
- 3 analysis that goes through corroborating evidence
- 4 in the face of uncertainty. Again, uncertainty
- 5 alleged or argued by the Region and referenced in
- 6 this Board's decision in Attleboro goes both ways.
- 7 If you look at stratification, there are
- 8 statements that say the MERL model
- 9 under-predicts -- under-predicts that more
- 10 stringent controls would be required. If you look
- 11 at flushing rates, it's possible -- and there was
- 12 no statement by counsel -- there is no notation in
- 13 the record that in fact there is an
- 14 over-prediction as a result of flushing. There is
- 15 simply an indication that it could over-predict as
- 16 a result of flushing, but there's uncertainty to
- 17 the extent there is uncertainty mitigating both
- 18 ways. Ultimately, the corroborating evidence
- 19 that's referenced in this key study is
- 20 corroborating evidence for the notion, again, on
- 21 pages -- on page 27 that limit of technology and
- 22 limits reaching the 2X to 4X scenario are required

- 1 to implement water quality standards. Those are
- 2 the kinds of statements that I think are required
- 3 by this Board's prior precedent and by the
- 4 regulations.
- On page 30 of the study, Rhode Island
- 6 DEM talks about adopting a phased implementation
- 7 for upward of 2 through .5 at some of the larger
- 8 facilities and 8 at some of the smaller facilities
- 9 such as Attleboro. And the statement made on page
- 10 30 is that that would enhance the near-term
- 11 environmental improvement while plants are below
- 12 their design flows. That falls well short of the
- 13 requisite language.
- 14 EPA counsel today did not answer the
- 15 question yes. There was no yes, this will be. It
- 16 was more semantics. That's our concern here. The
- 17 record is clear. I would also note that in the
- 18 Attleboro decision, the discussion of certainty,
- 19 and the Board -- this Board's recognition that
- 20 there might be uncertainty in that data could be
- 21 addressed by the Region through exercise of its
- 22 discretion, goes to the question of whether or not

- 1 the MERL tank experiments can be relied upon at
- 2 all, not what is indicated as what is necessary in
- 3 order to attain water quality standards once that
- 4 study is relied upon. And I believe that's
- 5 supported by my reading of it -- by the language
- 6 of the Board's decision in Attleboro. And I can
- 7 provide the citations; I did not bring it up here
- 8 with me. I'm sorry. Again, EPA has not made that
- 9 requisite clear statement today, and I would
- 10 caution that we have a study in the record here.
- 11 I would also refer the Board to document 192 which
- 12 is Rhode Island's response to comments on the
- 13 amount of Rhode Island permits that were upgraded
- 14 at pages five and six. Similar statements. I see
- 15 I'm out of time. I have one last claim to make.
- JUDGE WOLGAST: Briefly.
- MR. KILIAN: Thank you. And that is
- 18 simply that remedial purposes of the Clean Water
- 19 Act would mitigate in favor -- in the face of any
- 20 uncertainty, mitigating both ways in favor of
- 21 adopting the clear language in the record in
- 22 requiring more stringent --

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1	JUDGE STEIN: I have one question. Is
2	it the concern and perhaps the District can
3	answer this on the part of the District that
4	it's not capable of achieving the limit of three
5	or it just costs too much?
6	MR. KILIAN: I would argue that that
7	is the cost concern is the concern. And one
8	other note
9	THE COURT: It's not a technological
10	there's not any technological issue in terms of
11	this facility meeting this limit?
12	MR. KILIAN: Well, I would refer to a
13	very important point in the record that's before
14	you. And that is that EPA, in its response to
15	comments, Region I, has recognized that and I
16	want to find this, I have a citation here for
17	you but in the response to comments that the
18	Woonsocket facility is now at a limit of three.
19	The other major facility discharging into the
20	Seekonk River is not at five. And this is
21	important because in the Attleboro decision, in
22	footnote 56, this Board notes that at the time of

- 1 the closure of that record, Woonsocket was at
- 2 five. And the Board -- the text associated with
- 3 footnote 56 is that we have a larger facility than
- 4 the Attleboro facility discharging into the
- 5 most-impaired segment of this waterway. It's
- 6 appropriate to have a lower limit. I would note
- 7 that since the time that that record closed, this
- 8 record, in its specific response to comments, EPA
- 9 recognizes that Woonsocket is now at three, at the
- 10 limit of technology. And we should say -- we
- 11 would say that that same rationale that Rhode
- 12 Island used to go to three at Woonsocket should be
- 13 used here as well. I'm sorry for not having the
- 14 cite with me.
- JUDGE WOLGAST: That's all right. Thank
- 16 you.
- MR. KILIAN: Thank you.
- JUDGE WOLGAST: Mr. Andes. You have
- 19 nine minutes.
- MR. ANDES: Thank you. If I could
- 21 address that question first, Your Honor, on behalf
- 22 of the District. The District feels that under

- 1 the statute, the requirements that should be
- 2 imposed are those that are needed to attain water
- 3 quality standards. There has been absolutely no
- 4 showing that a limit of three is needed or that
- 5 even these water quality standards could be
- 6 attained. We think that the statements made here
- 7 by EPA further support our contention that the
- 8 MERL study is a very weak read, and we should face
- 9 permit limits.
- JUDGE STEIN: But if we were to
- 11 conclude, contrary to your arguments, that in fact
- 12 what was needed to achieve water quality standards
- 13 was a limit of three, is there evidence in this
- 14 record that the District cannot achieve a limit of
- 15 three? I'm not asking you to agree with me that
- 16 that's what the water quality standards require,
- 17 but if we were to conclude that's correct --
- MR. ANDES: Are you asking me if it's
- 19 physically possible to achieve with --
- JUDGE STEIN: I'm asking if the record
- 21 shows whether there are any feasibility or other
- 22 issues associated with that.

Page 97 1 MR. ANDES: Since a limit of three was 2 never proposed, the District has not produced any 3 information about whether it can or can't meet 4 that. If that were proposed, we -- I can 5 guarantee you -- would provide a lot of 6 information about whether that's the appropriate 7 number, including whether that's technically 8 feasible to meet. I can guarantee you that it 9 cannot be met with the current \$200 million 10 upgrade. Whether it can -- whether that is 11 physically possible to be met by the District, I 12 don't know. We've never been confronted with that 13 issue. 14 In terms of the statements here, we've 15 heard that MERL is a strong analog for what's 16 really occurring, but we've also heard that that 17 analysis over-predicts and that the analysis does 18 not go to a precise number that can be dropped 19 into a permit. Well, in a permit we get a precise 20 number and the District's officials are civilly 21 and criminally liable for meeting that number.

Under the statute it's not enough to say there's a

22

1	problem. It's not enough to say that that issue
2	needs to be addressed. Under this statute, the
3	way it's constructed, the District is entitled to
4	a sound basis for a limit that is needed to attain
5	water quality standards, not to get below or not
6	to impose the limit of technology standard. Tell
7	the District, EPA needs to support, this is what's
8	needed to attain water quality standards for this
9	system as a whole. That's simply not here. When
10	you look at the response to comments, at the
11	places where EPA is cited, in fact, the statements
12	there in F6, 18A, 51 are really just conclusory;
13	and in fact, the statements that I cited earlier
14	in terms of the fact that the when I cited the
15	statements about the physical model was not
16	generated precisely a definitive nitrogen control
17	that could be applied to a real world discharge,
18	that's straight from that 18A MEP response.
19	The Agency simply does not know whether
20	these standards can be met and whether these
21	limits are the limits that are needed to attain
22	water quality standards. Without that, they don't

- 1 have a basis for a limit yet. Should there be
- 2 limits on nitrogen and phosphorus? Yes. And
- 3 we're not saying that the limits of the old
- 4 permit, the 2001 permit, that we have now
- 5 installed the equipment for are adequate. We
- 6 certainly would not say there was a phosphorus
- 7 limit and no nitrogen limit. We designed the
- 8 system to meet very low numbers on phosphorus and
- 9 nitrogen. In fact, we think we'll do much better
- 10 than the phosphorus limit that's in that permit.
- 11 So we recognize that the next permit needs to have
- 12 lower numbers. The question is what are those
- 13 numbers and how are they needed to attain water
- 14 quality standards. We don't think the Agency has
- 15 provided that information, and we simply don't
- 16 have the information to make that conclusion.
- 17 They also have not responded to the point I
- 18 mentioned earlier that the delivery rate, which is
- 19 one critical issue here where they had one
- 20 number -- we raised an issue instead the 73 is
- 21 wrong -- the 87 is wrong, 73 is better. They
- 22 recognized that the 73 does incorporate other

- 1 sources and yet took the 87 instead as an example
- 2 of the way in which these limits have been
- 3 developed. They simply don't have a reasonable
- 4 basis.
- JUDGE SHEEHAN: Well, you say they don't
- 6 have a reasonable basis, but they have an earlier
- 7 permit and studies that went on there. They've
- 8 had 15 years of water quality data. They have at
- 9 least four criteria documents -- guidance
- 10 documents, and the regulation allows them to
- 11 consider guidance. That seems as if the Region
- 12 does have a sufficient bank of materials on which
- 13 to make its judgment. To insist on more or longer
- 14 in face of the severe impairment would seem
- 15 environmentally dangerous and seem not justified
- 16 in light of the fact that EPA seems to have a
- 17 pretty solid corpus of information and guidance
- 18 from it.
- MR. ANDES: The data they have, Your
- 20 Honor, doesn't go to the question. One would
- 21 think that at this point, if they had enough data,
- 22 they would have been able to say somewhere in this

- 1 record that here are the limits. These limits,
- 2 along with other limits, will get us to water
- 3 quality standards on this water body. They don't
- 4 say that. And I think part of it is is because
- 5 they don't know if they can really get there. And
- 6 under this statute, clearly, because the standard
- 7 needs to be attainable, that's the conclusion the
- 8 Agency needs to make. If they can't conclude that
- 9 those standards are attainable under this statute,
- 10 they're supposed to revisit and revise those
- 11 standards.
- 12 JUDGE SHEEHAN: But don't they say in
- 13 the fact sheet that the limit of five for nitrogen
- 14 will therefore achieve the water quality
- 15 standards? They say it.
- MR. ANDES: And when that issue was
- 17 questioned in the response to the comments, the
- 18 standards are not nearly as unequivocal. The
- 19 standards in response to comments don't even say
- in any word we really know that we're going to
- 21 attain the standard. If they don't know that,
- 22 they can't just impose requirements on discharge

Page 102 1 and say, well, it will get us there. That could 2 be under another statute, but under this statute, 3 that's not way it works. 4 JUDGE SHEEHAN: You seem to be saying 5 that unless there's some absolute bullet-proof 6 guarantee, which is probably impossible in any 7 scenario, the Region has to tie its hands and sit. 8 MR. ANDES: Well, we would say not that 9 there has to be a bullet-proof quarantee, we would 10 say nowhere in this record -- nowhere in this 11 record does the Agency say we're going to get the 12 water quality standards in this watershed and 13 here's how. Instead they say -- they say a lot of 14 times, well, it's a really big problem and Upper 15 Blackstone is a significant contributor. Granted, 16 something needs to be done. The issue we have 17 here is, is what they did -- something that has 18 rational support that it will result in a 19 attaining water quality standards. I simply don't 20 see where they concluded that, even with all this 21 information. 22 I would also point out as to aluminum,

- 1 because to me the key issue there, as I think
- 2 we've seen this morning, is the Agency recognized
- 3 that they have the data. When they take out the
- 4 344, there's no limit. The rest of the data are
- 5 much, much lower than 344. I think we just need
- 6 to go back to the comments because it's clear that
- 7 what we did in comments was we said, first, that
- 8 the Agency has selectively used the District's
- 9 data, leaving out data from 2004, a portion of
- 10 2005, most of 2006, half of 2007, and most of
- 11 2008. That selective use of the data allowed them
- 12 to form an erroneous conclusion. So that
- 13 paragraph, we basically say go back, review your
- 14 dataset properly, and do a new analysis. Our
- 15 second paragraph then went on to say, by the way,
- 16 if you look at all the data, even with the 344, we
- 17 are always under -- consistently below the ambient
- 18 levels in the Blackstone River. And there's no
- 19 varying ambient conditions. A separate point
- 20 where we said, well, look at all the dataset,
- 21 we're under ambient levels, how could se be
- 22 causing to contributing to a violation?

- 1 The first point we raised in the
- 2 comments was you selectively used data. Stop
- 3 that. So in their response to comments, they
- 4 said, fine, we're going to consider more data.
- 5 Here's a new analysis we've run, and we didn't mix
- 6 in the 344. And our response was, well, okay,
- 7 that's a new analysis. We didn't think to say, by
- 8 the way, when you do the new analysis, follow all
- 9 your own guidance. Don't include outliers. Do
- 10 the various other data manipulation techniques
- 11 which you ordinarily do. I guess if we had to put
- 12 that in context of the time, we would insert some
- 13 boilerplates saying follow their own guidance. We
- 14 didn't think we needed to do that. So we think we
- 15 did reserve the issue. They submitted a new
- 16 analysis. We reviewed it. It's clear that it
- 17 rests on one data point and that data point should
- 18 be excluded, and then there would be no limit.
- 19 Thank you.
- JUDGE WOLGAST: Thank you very much for
- 21 your arguments. They were very helpful. The case
- 22 is now submitted.

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1	(Whereupon, at 11:55 a.m. the	
2	proceedings were concluded.)	
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Page 106 1 CERTIFICATE OF NOTARY PUBLIC 2 3 I, CONSTANCE HUNT RHODES, the officer 4 before whom the foregoing oral argument was taken, do hereby certify that the proceedings were taken 6 by me in stenotypy and thereafter reduced to 7 typewriting by me; that said transcription is a true record of the proceedings; that I am neither 9 counsel for, related to, nor employed by any of 10 the parties to the action in which this deposition 11 was taken; and further, that I am not a relative 12 or employee of any attorney or counsel employed by 13 the parties thereto, nor financially or otherwise 14 interested in the outcome of the action. 15 16 Constance of Rhode 17 18 CONSTANCE HUNT RHODES 19 Notary Public in and for 20 District of Columbia 21 My commission expires: 22 January 1, 2013

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