

STATE OF CALIFORNIA  
REGIONAL WATER QUALITY CONTROL BOARD  
SAN DIEGO REGION

WEDNESDAY, DECEMBER 12, 2012

WATER QUALITY CONTROL BOARD  
BOARD MEETING ROOM  
9174 SKY PARK COURT  
SAN DIEGO, CALIFORNIA

1           MR. STRAWN: At this time, we'll begin  
2 Item No. 11. This is a continued public workshop  
3 that we began in our November meeting. It concerns  
4 tentative order R9-2013-0001. The draft stormwater  
5 permit for the entire San Diego region. This  
6 workshop is -- is, as I said, continued from  
7 November 13 and I want to remind everyone a little  
8 bit about the procedures for this matter. This is  
9 not a public hearing and the board will not be  
10 taking any action today.

11           The November workshop, the board heard  
12 presentations from staff and everyone asking to  
13 speak. Emphasize everyone. After a long day, the  
14 board decided to continue the workshop to today's  
15 meeting. But before adjourning, we posed some  
16 questions of staff to which we hope to get  
17 responses today. The questions were summarized and  
18 made available to the public. The questions are  
19 broken into three primary categories. As Mr.  
20 Gibson mentioned, hydromodification, cost and total  
21 maximum daily load TMDLs.

22           In the notice for this workshop, I  
23 clarified that the board is also seeking responses  
24 from co-permittees specifically on some of the  
25 questions concerning cost issues, as they may be in

1 a better position to answer some of those  
2 questions. The primary purpose of today's workshop  
3 is to receive these responses and in the interest  
4 of efficiency and productive use of everyone's  
5 time, the board does not want a repetition of the  
6 presentations made in November.

7 For purposes of today's workshop, we  
8 will start with presentations from staff, following  
9 each of the categories of questions. After staff  
10 responds to questions in each particular category,  
11 it may be appropriate at that time to invite other  
12 speakers on these topics and to invite board  
13 discussion before we move on to the next category.  
14 And, again, I emphasize board discussion. Our  
15 purpose here is to really be able to dig into this,  
16 so there's going to be a certain informality and  
17 we'll -- we'll try to keep to a schedule. And I  
18 just want to make sure we don't spend a lot of  
19 regurgitating what we did in November, but in fact,  
20 emphasize more open discussion.

21 With that in mind, let's begin with the  
22 staff's presentation.

23 MS. ARIAS: Good morning, Chairman  
24 Strawn. Members of the board, my name is Christina  
25 Arias, water resource control engineer. And just

1 as you mentioned, Mr. Strawn, this item is about  
2 continuing the public workshop that we began at  
3 last board meeting on November 13th, 2012.

4 At that meeting, staff gave an overview  
5 of tentative order R9-2013-0001 also known as the  
6 regional MS4 permit. So when we concluded our  
7 presentation last month, you also heard from many  
8 stakeholders on a variety of issues. As you  
9 mentioned, more or less those issues coalesced into  
10 hydromodification management, total maximum daily  
11 loads and the cost associated with stormwater  
12 management programs.

13 So at the end of the day, the board  
14 members directed us staff to address some of your  
15 specific questions and those questions are included  
16 as supporting document 1 in your agenda packet. So  
17 for this morning, I will be addressing your  
18 questions on hydromodification management. Wayne  
19 Chu, who is our project lead, will be addressing  
20 your questions on the bacteria beaches increased  
21 total maximum daily loads as well as some other  
22 items that you had questions on. And Lori Walsh  
23 will finish up with addressing your concerns about  
24 cost associated with stormwater programs. So  
25 unless you have any questions about our

1 proceedings, I will just dive into  
2 hydromodification.

3 MR. STRAWN: Go ahead.

4 MS. ARIAS: So you recall last month when I  
5 introduced the topic of hydromodification  
6 management, I mentioned that this is a relatively  
7 newer area in the world of stormwater permitting  
8 and the world of stormwater management. Within the  
9 last ten years or so, this has become a hot topic  
10 as reflected in the more recent stormwater permits.  
11 And the -- the reason is because the effects of  
12 hydromodification are really far reaching, and all  
13 the inputs of the confounding factors that are  
14 involved in hydromodification effects are really --  
15 are really varied, but there are a couple of things  
16 that we're very sure about.

17 And the placement of impervious  
18 surface, mostly concrete and asphalt within our  
19 water sheds, as well as encapsulating healthy  
20 sediment beneath these surfaces has led to this  
21 condition where we have increased stormwater flow  
22 volumes and stormwater flow rates, such that we're  
23 left with this condition that the -- the receiving  
24 waters have trouble attenuating those increased  
25 flow rates and durations. And so these have

1 detrimental effects to our receiving streams, and  
2 I'm showing you a couple of pictures of Carroll  
3 Canyon Creek. These -- these are different chain  
4 segments more or less located in the middle of the  
5 Penasquitos hydrologic unit located both upstream  
6 and downstream of developed areas.

7           The point I wanted to make by showing  
8 you these pictures is that the -- the channel  
9 geometry here is very striking; right? So the --  
10 the creek banks have been eroded away and naturally  
11 has taken away some natural healthy habitat with  
12 it. And we have altered the stream's ability to  
13 naturally attain pollutants.

14           And finally, it's not just about our  
15 beneficial uses and water quality. There's  
16 infrastructure impacts, too. If you notice on the  
17 lower picture, there's a telephone pole there and  
18 it's probably only a matter of time before that  
19 telephone pole falls into the creek. And as you  
20 can imagine, this is -- this is what we see the  
21 municipality are spending a lot of money repairing  
22 infrastructure damaged roads, utility lines, et  
23 cetera because of hydromodification.

24           So the current state of affairs is that  
25 right now, San Diego County has a Hydromodification

1 Management Plan that was adopted by this board in  
2 July of 2010 and South Orange County and Riverside  
3 Counties are currently developing their  
4 hydromodification management plans. In the  
5 tentative order, we follow through with  
6 requirements and these requirements state that  
7 structural BMPs must be implemented to manage  
8 flows, priority development causes such that post  
9 project flow rates and durations do not exceed  
10 predevelopment flow rates and durations for the  
11 range of flows that are being to cause erosion.

12                   And I notice that I did say  
13 "predevelopment" and I will talk about that in a  
14 minute. One thing that the hydromodification  
15 requirements emphasize and is really the whole  
16 tentative order emphasizes is a watershed approach,  
17 and we talked about this in great detail last  
18 month. I'm showing you picture, a satellite photo  
19 of Penasquitos hydrologic unit because I think it's  
20 helpful to really -- to really visualize what I'm  
21 talking about here.

22                   So Carroll Canyon Creek runs along the  
23 -- more or less this area here. And like I said,  
24 the photos that I showed you -- let's see -- one of  
25 them was downstream of the quarry. It's hard to

1 see this magnitude, but somewhere along there. But  
2 I do want you to see within this watershed, we have  
3 lots of things going on. There's industrial  
4 commercial land uses, there's construction going on  
5 over here in Carmel Valley. There's the -- some  
6 rock quarries, and there's really a lot of open  
7 space.

8                   And to me, it's very striking that for  
9 -- when you look at land uses, the -- the developed  
10 areas are a relatively small percentage of the  
11 entire watershed, and yet the effects we see from  
12 these -- from these -- from these developed areas  
13 are very profound. You already know that many of  
14 our surface waters are impaired for several  
15 different constituents, and a lot of the reason is  
16 because of stormwater, so in -- if we're going to  
17 get serious about looking for solutions and  
18 improving water quality and beneficial uses, we  
19 need to be creative in how -- how we try to -- how  
20 we form our strategies and the risks -- not the  
21 risks, the strategies that we are willing to  
22 implement, and -- and like I said, try new things  
23 from what we've been trying the past 20 years.  
24 Now, our emphasis on watershed planning is  
25 supported by the latest science. In April 2012,

1 the Southern California coastal Water Research  
2 Project issued a report in conjunction with several  
3 university partners, and this report is entitled  
4 "Hydromodification Assessment and Management in  
5 California." And this report states that an  
6 effective hydromodification management program will  
7 likely include combination of on-site measures such  
8 as low-impact development techniques and flow  
9 control basins in stream measures, such as stream  
10 habitat restorations, flood plain and reparative  
11 zone actions and off-site measures. Off-site  
12 measures may include compensatory mitigation at  
13 upstream locations that are designed to help  
14 restore and manage flow and sediment yield in the  
15 watershed.

16           So in the words of the report author in  
17 a conference call just a couple of weeks ago, they  
18 said the question is not if we're going to do  
19 hydromodification management on site, it's where  
20 and how within the watershed. So we think that in  
21 order to make the improvements that we want to see,  
22 that the tentative order contains two important  
23 elements that we think will really get to the root  
24 cause of hydromodification.

25           The first one is the elimination of the

1 previously exempt project, and the second one is  
2 the use of predevelopment conditions for each  
3 development site. So Mr. Anderson, you had asked  
4 the question that -- what happened to the exemption  
5 and why did we remove them. So the San Diego  
6 County Hydromodification Management Plan or HMP has  
7 some exemptions included. The exemptions are such  
8 that if your project discharging to concrete line  
9 channel, the lines all the way of point of  
10 discharge to the ocean, that you're exempt from  
11 doing any sort of controls.

12                   And there's also some other exemptions.  
13 For example, there's one that we call the Urban  
14 Infill Project that -- that is there for when a  
15 project is built in a highly urbanite setting.  
16 Their computer model link -- when I say "their," I  
17 mean -- their computer model link shows that for  
18 these kinds of projects, even if we do  
19 hydromodification BMPs on site, they really -- its  
20 impact is negligible and pretty much a waste of  
21 money. So we understand that argument. We agree  
22 with the co-permittees and they have convinced us  
23 that it's -- it's not a well -- good use of funds  
24 to put on controls on these types of sites.

25                   So let me be clear. In the tentative

1 order, we're not proposing that all of these sites  
2 implement hydromodification management BMPs.  
3 That's not what we're saying. What we are saying  
4 is that instead of doing the -- those types of  
5 controls on site, that in exchange, we do -- we  
6 spend that money on a variety of different types of  
7 projects in a different part of watershed that  
8 makes more sense where we can actually see a  
9 positive outcome. So that's why those exemptions  
10 were removed.

11 MR. ANDERSON: So that would trigger the --  
12 then if you're discharged into the concrete  
13 channel.

14 MS. ARIAS: Yes, that's the alternative  
15 compliance option and next I'm going to talk about  
16 that, too.

17 Next, I'm going to talk about  
18 predevelopment hydrology and last month,  
19 Mr. Destache asked if we should be using the  
20 predevelopment hydrology as a standard or the  
21 preproject hydrology. So let me just first explain  
22 what I mean by those two terms.

23 Predevelopment hydrology. If we go -- if it's a  
24 new development -- and I'm using a nice photo here  
25 in the San Diego River watershed. Let's just

1 pretend that I want to come and put a building  
2 here, but both the predevelopment and preproject  
3 hydrology are one and the same. And I know what it  
4 is. I can go to the site and study the soil type  
5 and the vegetative cover and understand the  
6 hydrological commute, the natural commission.

7           Now, let's look at the predevelopment  
8 site. Now, the predevelopment site and the  
9 preprojective sites are drastically different  
10 things. So we don't know exactly know what the  
11 predevelopment hydrology is here, but we do know  
12 that the preproject site is the hydrology  
13 associated with impervious surface. So recall that  
14 the stated objective of the Clean Water Act is to  
15 restore and maintain the chemical, physical and  
16 biological integrity of the nation's waters.

17           So the question really becomes, do we  
18 really want to perpetuate this condition? Do we  
19 really want to continue having these flow regimes  
20 that we already know are so destructive downstream.  
21 Let's instead take this opportunity and try and  
22 return the watershed back to a more natural state  
23 and give the -- give the downstream waters a chance  
24 to recuperate and really work towards a healthy  
25 sustainable watershed.

1                   And finally, I do want to point out  
2 that this concept of predevelopment hydrology is  
3 not something new. We've already had this  
4 discussion before. In fact, the South Orange  
5 County and Riverside County permits today have this  
6 requirement in there. San Diego County is the only  
7 one that doesn't have -- have this requirement in  
8 their current permit, but I will also say that in  
9 -- when their HMP was under development, we made a  
10 comment letter to them before the HMP was finished,  
11 indicating to them that this requirement was going  
12 to be coming in the future. So this is no surprise  
13 for them.

14                   Mr. Strawn, you had asked how do we  
15 document predevelopment hydrology. So let me give  
16 an example of how I foresee this working out. This  
17 is an aerial photograph of 9174 Sky Park Court.  
18 Now, let's say that I want to redevelop this site,  
19 and I don't want -- I don't know what the  
20 predevelopment hydrology is by looking at this  
21 photo. I just see a lot of impervious surface.  
22 The only I know is there a lot of -- there's --  
23 there's the rooftops and the parking lots, and  
24 together those during a storm event are going to  
25 collect all those pollutants and transport it very

1 quickly to the nearest storm drain.

2                   But looking at this photo, I don't know  
3 anything about the soil underneath my feet. So  
4 what I'm proposing is let's zoom out a little bit.  
5 So here we go. Here's 9174 Sky Park Court right  
6 here. So then south of us we have the airport. To  
7 the east of us we have a little bit of open space  
8 with Murphy Canyon Creek. So I may not know what  
9 the soil type is right here, but I can kind of get  
10 an idea by looking at the surrounding area. So I  
11 can look wherever there is an opportunity to get  
12 access to open space and study the soil type and  
13 the vegetative cover and have a really good  
14 estimation of what the natural hydrology is.

15                   And it may not perfect. The precision  
16 may not be exact, but it will definitely give me a  
17 better scenario than if I were to use the concrete  
18 asphalt as -- as the predevelopment condition.  
19 So another -- another method I could use is to look  
20 at a free website service offered by the natural  
21 conservation -- Natural Resources Conservation  
22 Service. All you have to do is punch in latitude  
23 and longitude and it gives you a lot of information  
24 about the site.

25                   In this case, I looked up the

1 properties about the soil type and I'm finding the  
2 information that I need. Hydrologic Group D. So  
3 you see, Mr. Strawn, it's not about going back a  
4 100 years or 500 years or anything like that.  
5 We're not looking for some in-depth history  
6 project. All we want to do is use a suitable  
7 substitute.

8                   Mr. Destache had made a comment that --  
9 suggesting that we are proposing that the San Diego  
10 County HMPs, that we throw it down the drain. Now  
11 let me explain to you why that's not the case.  
12 This is a flow chart from the San Diego HMP's  
13 applicability matrix. And I know the print isn't  
14 easy to read, but that's not the point. The point  
15 is that each prior development project starts at  
16 the top of the matrix and you work your way down  
17 and you end up in one of two locations.

18                   If you end up on the bottom right, then  
19 you're required to do hydromodification BMPs on  
20 site. If end up on the left side of the matrix,  
21 then you're exempt from doing any sort of BMPs.  
22 What we're proposing is taking this -- this area,  
23 this end point and changing it to a requirement  
24 that this project does some sort of alternative  
25 compliance off site. So we're definitely not

1 suggesting that this plan get thrown down the  
2 drain. All the modeling that was involved to  
3 generate this graph is still intact. All the  
4 research they did is still applicable.

5           Like I said, all we're doing is -- is  
6 proposing that each site must now do some sort of  
7 alternative compliance off site, and this would  
8 apply to road projects, too, because Mr. Destache  
9 had asked us how road projects would fit in --  
10 would fit into this category also. Where if it's  
11 feasible, road project would be doing some sort of  
12 alternative compliance.

13           So what kinds of options am I talking  
14 about? The way the tentative order is written,  
15 there's a variety of options that the prior --  
16 priority development project could take. First  
17 off, there is off site BMPs, retrofit fit projects,  
18 stream or habitat rehabilitation projects, and also  
19 if the governing municipality has it set up, some  
20 sort of in lieu fee would also work.

21           So where would be suitable locations  
22 for these types of projects? Mr. Morales, you had  
23 asked -- or you had brought up a concern that  
24 low-income neighborhoods might be a target for  
25 these type of alternative plan projects. So the

1 way the tentative order is written, the  
2 requirements are that the alternative compliance  
3 project would take place in the same hydrologic  
4 unit as where the impact occurs or where the  
5 project is being built. And preferably within the  
6 same hydrologic subarea, so it's as close to the  
7 source as possible. But in any event, the real  
8 answer is that these projects should be placed  
9 wherever there is the most beneficial impact for  
10 water quality.

11                   And the way this -- this will fit  
12 nicely with the other sections of the tentative  
13 order. For example, as we discussed last month,  
14 the water -- within the water quality improvement  
15 plan, the co-permittees will be identifying  
16 strategy and they will be identifying areas where  
17 it might be useful to implement some sort of be  
18 rehabilitation or restoration project or retrofit  
19 project. So it all sort of ties together.

20                   Lastly, I would like to conclude by  
21 showing a real life example of how we envision this  
22 -- all of this working out. And the City of  
23 San Diego was kind enough to send me photos of one  
24 of their retrofit projects that's located at the  
25 corner of 43rd and Logan Street, which is a

1 lower-income neighborhood within the City of  
2 San Diego. On one side, they have a bioretention  
3 basin, and on the other side of street there's  
4 curbside filtration cells containing media beneath  
5 these decorative pavers, and the City has told me  
6 that there have been plenty of design challenges  
7 with implementing these PMPs, but nonetheless, we  
8 think there's -- this has really great potential.  
9 Or this concept has really great potential.

10           This is the type of opportunities that  
11 we're looking for. For one, we're achieving water  
12 quality benefit with these treatment devices.  
13 Second of all, we think that this is -- this is an  
14 -- opportunities to improve the aesthetics in the  
15 neighborhood. And finally, it's an opportunity to  
16 per the goals of USEPA for environment justice,  
17 which states that for all -- for all communities to  
18 enjoy the same degree of protection from  
19 environment and health hazards.

20           So that concludes my prepared remarks  
21 for you today. I would be happy to answer any  
22 questions or we can move on to Wayne's presentation  
23 if you would like.

24           MR. ANDERSON: If I could, on the  
25 hydromodification. So the difference between

1 predevelopment and preproject would be the amount  
2 of -- of -- in lieu of fee that would be required  
3 to meet the goal.

4 MS. ARIAS: Well, the in lieu fee  
5 structure is not something that is -- the structure  
6 has not been set up yet, but that is something that  
7 all of us in the co-permittees are going to need to  
8 be thinking about, depending -- I'm sure it would  
9 be some sort of analysis depending on the expected  
10 impacts from the site and what does that equate to.  
11 And then so if it turned out to be a fee, then how  
12 much money they would owe. So it would probably  
13 depend on the impact.

14 MR. ANDERSON: My question for  
15 Catherine would be if -- if we are -- she had the  
16 picture of the -- of the auto sale -- car sale lot.  
17 If you are redeveloping that site, is -- there is  
18 sufficient nexus to require pre -- predevelopment  
19 or do -- or are we constrained?

20 MS. ARIAS: I don't know the answer to that  
21 question. I will find the answer out for you, but  
22 that's not something I'm -- I'm familiar with.

23 MR. ANDERSON: I think I only ask that  
24 because one of the -- somebody had raised that a  
25 potential problem.

1 MS. HAGAN: Could I interject?

2 MR. ANDERSON: Please.

3 MS. HAGAN: I really don't see it as a  
4 legal question in my opinion. I think it's a  
5 technical question. It's just done -- it's setting  
6 the bar as to -- as to what the design standard  
7 should be.

8 MR. ANDERSON: That's question.

9 MS. HAGAN: Right.

10 MR. ANDERSON: And the bar needs to be  
11 legal.

12 MR. MORALES: Just a clarification and then  
13 a quick question. So as I understand it, then the  
14 off-site basins or the in lieu of, am I hearing  
15 that the -- the driving factor or the decision as  
16 to where they are located is based on where it does  
17 the most good for the watershed and the improvement  
18 of our water.

19 MS. HAGAN: Yes.

20 MR. MORALES: So in an instance -- how  
21 would the cost factor into, that because -- there  
22 might -- I can envision a circumstance where, you  
23 know, where it is -- the most beneficial if you do  
24 something in -- in an area like, you know, 43rd and  
25 Logan. I could also envision an instance where,

1 you know, one of our, you know, scientists and  
2 engineers tell us, well, the biggest beneficial  
3 impact would be if you put it in Rancho Santa Fe.  
4 Very different cost approach.

5 I mean, how do we deal with that? Is  
6 that something that is still being flushed out?

7 MS. HAGAN: Well, actually, all -- you  
8 know, all of this -- once the permit -- the  
9 tentative order is adopted and it becomes reality  
10 and a requirement, then the municipalities will  
11 have to set up these alternative compliance  
12 strategies or -- and figure how the in lieu fees  
13 come together. But in terms of -- in terms of  
14 deciding where the -- where the -- the alternative  
15 compliance projects will be placed.

16 Again, I don't think -- that, you know,  
17 the status of the neighborhood is part of the  
18 equation. It's more technical driving factors, how  
19 much impervious services are at -- a lot of these  
20 PMPs require space and that's a huge constraint.  
21 And it could be that the -- I forgot what  
22 neighborhood you mentioned. It could be more that  
23 there is more space there so they can implement  
24 some sort of project there.

25 Whereas a place like this, it's a

1 little -- could be more challenging. However, we  
2 think there's more reward if you're able to reach  
3 the in-fill areas and start placing the PMPs that  
4 looks pretty, too.

5 MR. MORALES: Then the second one, the --  
6 the website that you said provides some information  
7 about soil conditions. Where do they get their  
8 data?

9 MS. HAGAN: Well, let's see. The natural  
10 resources conservation service.

11 MR. MORALES: Presumably they've got  
12 information about the soil because they make it  
13 available to folks. I always tell my daughter  
14 don't believe everything on the Internet.

15 MS. HAGAN: Right. My understanding, and I  
16 think most of the people in the room would agree  
17 with me, that that's the -- that's the go-to source  
18 for this type of information. They accumulate this  
19 data. I think it's constantly being updated with  
20 -- with any new information that is available.  
21 And, again, you know, the idea that we have here is  
22 that -- is that each site gets a rough idea of what  
23 the soil type is, even if it's not perfect.

24 MR. MORALES: Okay.

25 MR. STRAWN: Segueing from Mr. Morales's

1 comment and back to mine. You may want to stay  
2 there. I think this is going -- go beyond your  
3 input. My concern, I think, is the subjectivity of  
4 some of the answers that you provided to us this  
5 morning. In other words, we're going to assume  
6 that everyone making these decisions and working on  
7 this are honest, forthright and cooperative. And  
8 although we certainly have seen an awful lot of  
9 that from this staff and this whole group over the  
10 two years I've been here, it's not necessarily the  
11 case.

12                   So using my concern of the hydrology  
13 modification, predevelopment is a -- certainly an  
14 admirable standard. My question is, how practical  
15 is it in terms of, you know, you described the  
16 process as you envision it going down, but what if  
17 somebody wasn't as properly motivated as you are?  
18 And where I'm coming from basically and where I  
19 would like to go with this is, the co-permittees, I  
20 believe, have a concern that we could get into an  
21 endless litigation pit over some of these questions  
22 if it's not solidly defined as to what that  
23 preproduction standard is.

24                   And I guess what I would like to do is  
25 ask the co-permittees after lunch to address that,

1 both the -- the Riverside and Orange County that  
2 have been living under that terminology and from  
3 our San Diego County permittees that are -- are  
4 cringing at having to move into that area, what are  
5 your concerns? Am I correct in thinking that it --  
6 it's primarily that it could wind of leading to  
7 negotiations and then litigation.

8                   And if that's the case, how do we get  
9 to that admirable goal without as much open-ended  
10 questioning or subjectivity in that? Is there a  
11 better way to hammer out that definition or is that  
12 done just by precedent? And I think with that --  
13 go ahead.

14                   MS. HAGAN: Sure. I would like to respond  
15 a little bit. So -- so in terms of figuring out  
16 what the predevelopment condition is, I'm sure  
17 you're familiar that there is more -- I think  
18 there's -- there's four different soil types: Type  
19 A, B, C and D. And Type A soil infiltrates  
20 quickly. It's like sandy kind of substrate. And  
21 Type D soil is more like a clay, where it doesn't  
22 -- doesn't infiltrate very well at all. So the  
23 question there begins -- I think that you're asking  
24 is, how do I know which soil type to use if it's  
25 already developed site, because there's a range.

1                   And so what I'm saying is that the --  
2 the priority development project, they need to do  
3 their research to figure out what their best guess  
4 is. And I'm saying "guess." And then the  
5 municipality within their land development group,  
6 it's their job as they go through project approval,  
7 you know, they look at design standards, building  
8 design standards, safety standards and stormwater  
9 standards. So within reviewing their standards,  
10 they're going to be looking to see if this  
11 development site -- well, they're claiming Type D  
12 soils is -- is that acceptable? "Yes" or "No."  
13 And then let's say they accept that. Then -- then  
14 the project is built.

15                   What I'm trying to say is that even if  
16 -- even if they claim Type D soils, clay soils,  
17 which don't infiltrate very well, but true reality  
18 is more that there -- that the site is actually  
19 more like Type C soils. In my mind, it's still  
20 better than concrete asphalt. To me, that's the  
21 worse condition out there. So we're just trying to  
22 move that -- the use of that type of baseline away.  
23 We're trying to move away from that to a more  
24 natural condition.

25                   Now, when we come around later on and

1 do our audit, let's say we want to do an audit on  
2 their land development project on the  
3 municipalities, and we say Municipality A, can you  
4 please show us how this new development --  
5 redevelopment area that you approved a year ago  
6 under the new hydromodification requirement, can  
7 you show me how our process is for approving that  
8 project? Then they're going to show me that --  
9 that the -- the original developer gave them  
10 such-and-such information and -- and defended their  
11 use of Type D soil. And if they can show that they  
12 went to NRCS website and it said Type 2 soils, I  
13 can't argue that. They did their job by checking  
14 the box.

15 MR. STRAWN: Just real quick. I don't want  
16 to dwell on this. The context I was coming from  
17 this last month, we were looking at a map, I think,  
18 on a different topic altogether. And I believe it  
19 was the San Luis Rey River. And if you could  
20 clearly look at that picture and see that -- that  
21 the whole river had been moved, and there were  
22 hundreds of houses built on what had been probably  
23 part of the original flood plain.

24 So that if somebody who were to go in  
25 there and do any sort of, let's say, it was an

1 improvement of, you know, improve a drain, a system  
2 along -- or widen a bridge or do something like  
3 that, this endless pit I'm talking about is full.  
4 You got to move all those houses out of the way and  
5 you got to return the river back to its original  
6 location. And how do you draw a line between these  
7 very pragmatic things you're talking about. And  
8 somebody taking completely out of context that you  
9 are referring to into a bigger one and saying  
10 that's predevelopment, you know, I want it to go  
11 clear back to -- to where it was in 1920. I want  
12 the river moved back to its original position. And  
13 again, I don't think that's too big of a stretch.

14                   We were looking at part of the  
15 San Diego River and going through the golf course  
16 in Santee, and it's certainly hasn't been in its  
17 original position for the last 50 years, but I  
18 could see where -- where you could take this and  
19 make that -- that claim before you do anything.  
20 You have to move the river back, you know, 200  
21 yards to the north. And I'm just -- I think you  
22 have given me a really good answer and I appreciate  
23 that.

24                   I just want to hear from the -- the  
25 co-permittees, Am I off in La La Land here or is

1 this really part of their concern. And if so, how  
2 did we address it in the other counties and how are  
3 we going to work with it? I just don't want this  
4 to get bogged down in a bunch of questions that are  
5 from a -- where the litigators can address better  
6 than I can how deeply you can get into a quagmire  
7 with some of those questions.

8 MR. GIBSON: Mr. Chairman, if I could offer  
9 just a couple of thoughts and perhaps questions for  
10 your consideration. One is, I think it's important  
11 to clarify, at least in my mind, that when this  
12 Ms. Arias is showing photographs of sites that  
13 might be redeveloped, we are talking about  
14 redevelopment, not restoration to native habitat or  
15 native soil conditions.

16 We are also talking about a permit to  
17 discharge waste, not land use planning decisions.  
18 And so in the example you just gave, that's  
19 fundamentally a land use planning decision and City  
20 Counsel and County Supervisors make educated  
21 decisions based on CEQA and other things about  
22 flood plain risks and so on.

23 So when we look at these from new  
24 development for significant redevelopment where the  
25 hydromodification requirements come into play,

1 we're looking at the implementation of best  
2 management practices to the maximum extent  
3 practicable standard being applied here  
4 symptomatically at the sites, taking into account a  
5 number of technical issues such as the ability of  
6 the soil to infiltrate. What BMPs could you employ  
7 there?

8 Tiering off of that, I think it's  
9 important to go back to a discussion we had earlier  
10 today, which was about potential restoration  
11 opportunities in a watershed that would benefit a  
12 watershed scale. And I think that the question  
13 that Board Member Abarbanel asked earlier about two  
14 potential parking lots could be restoration, is a  
15 type of question that could be asked by the  
16 co-permittees on watershed scale with respect to  
17 new development, redevelopment requirement overall;  
18 hydromodification in particular.

19 Are there opportunities for alternative  
20 off-site compliance that developers and land use  
21 decision-makers can plug and play with. Can we do  
22 incrementally best management practices or  
23 restoration opportunities in the watershed that  
24 would make sense and allow to be one of the  
25 vehicles for alternative off-site compliance. I

1 think that the staff intuitively expected that  
2 that's one of the things that could happen as a  
3 result of this approach. But I think it's worth  
4 pulling out there and making sure that indeed, that  
5 is some of the options that are out there which is  
6 off-site restoration as well as off-site basins or  
7 other compliance measures. So I wanted to offer  
8 those points of view for your consideration later  
9 on today.

10                   And I also wanted to note for the  
11 record that in almost all the instances where  
12 Chairman Grant asked a question and Board Member  
13 Abarbanel seconded those questions. And so we want  
14 to make sure we are addressing the totality of the  
15 board's concerns and questions on this matter. And  
16 I'm looking forward to the rest of the discussion  
17 today.

18                   MR. STRAWN: Thank you for that  
19 explanation. And certainly, if the co-permittees  
20 have that same perception where that goes, then I  
21 don't have a problem with it. I just saw it as  
22 being kind of a question. I didn't fully  
23 understand and I thought it was important for us to  
24 nail down so everybody knows what the definition  
25 really is.

1                   Time for a lunch break now and go to  
2 closed session. We don't need a break.

3                   MS. ARIAS: Can I ask you to announce the  
4 items that we will be discussing or can I announce  
5 them for you?

6                   MR. STRAWN: Would you do that, please.

7                   MS. ARIAS: Discussing Items 12A and M and  
8 possibly, see if there are any follow-up  
9 discussions on this requirement.

10                  MR. STRAWN: We'll reconvene at 1:00  
11 o'clock, please. Promptly at 1 o'clock.  
12 (Luncheon recess was taken from 12:04 P.M. to 1:00  
13 o'clock.)

14                  MR. STRAWN: If we can reopen our open  
15 session. And Catherine, I need to mention that we  
16 discussed Item 12D in closed session. And with  
17 that, I think -- Mr. Gibson, is this a good time  
18 for us to talk about having a representative to the  
19 Tijuana River recovery.

20                  MR. GIBSON: If you'd like to, we can  
21 discuss that now. Grant Destache was one of two  
22 co-chairs on that recovery team. With his  
23 departure, it would be appropriate for the board to  
24 identify informally a contact person they would  
25 like to have fulfill that role. I can add them to

1 our mailing list. The steering committee meets  
2 once a month and about once every other month of  
3 the recovery team as a whole.

4 MR. STRAWN: I don't know that I mentioned  
5 this to you, but I would like to propose that Tomas  
6 be our primary representative to that working  
7 group, and I understand from the comments during  
8 our closed session that -- maybe I you're going to  
9 cringe -- that Sharon would maybe be a backup.

10 MR. GIBSON: Sharon spoke also in closed  
11 session indicating she was also interested in  
12 learning more about the Tijuana recovery team. I  
13 was going to give her an extensive briefing later  
14 this month on the water board as a whole and on  
15 that particular -- she was also interested, but I  
16 don't know if she was wants to cochair at this  
17 point.

18 MR. STRAWN: Okay. We don't need a motion  
19 or anything. We just put -- unless there is any  
20 discussion from our board members, I think Tomas,  
21 you are willing to do that; right?

22 MR. MORALES: Yeah. Send the Mexican. Of  
23 course I would happy to.

24 MR. GIBSON: You would be very warmly  
25 welcomed, Tomas.

1           MR. STRAWN: That's going to take some  
2 recovery time. I think where we left the workshop  
3 was, we had -- we had staff and board comments on  
4 the hydromodification topic area, so I would guess  
5 the next spot is to see if there are some  
6 co-permittees that want to address that particular  
7 subject or other. And -- I'm assuming we have a  
8 speaker card for anybody that's going to want to  
9 speak on that. We are going to run the timer for  
10 three minutes on those comments, but you can share  
11 that time if you need to. And if so -- if you  
12 would identify yourself clearly, so we can pull  
13 your card.

14           MS. SLOAN: San Diego Co-Permittees Land  
15 Development Work Group. I have that handout to --

16           MR. STRAWN: Do you have a red, blue or  
17 green card?

18           MS. SLOAN: It's blue.

19           MR. STRAWN: We have 29 speaker cards, so  
20 we're going to be pushing this timewise and also  
21 have a little card shuffle up, trying keep this all  
22 in line.

23           MS. SLOAN: We have a presentation.

24           MS. ARIAS: Is this a copy of your slides  
25 that you're going to be presenting today?

1 MS. SLOAN: Yes. Good afternoon. My name  
2 is Christine Sloan. I am the chair of the Land  
3 Development Work Group for the San Diego  
4 co-permittees and thank you for the opportunity to  
5 respond to the HMP questions.

6 The San Diego HMP technical advisory  
7 committee analyzed the question of the preproject  
8 versus the predevelopment and concluded that  
9 preproject was the most appropriate condition to  
10 use within the HMP. The HMP does include sections  
11 of the document that Christina referred to earlier,  
12 and we worked with the main author of that document  
13 with our technical advisory committee.

14 The technical advisory committee chose  
15 preproject because streams within a  
16 previously-developed area have already reached  
17 equilibrium before redevelopment occurred -- would  
18 occur. In addition, redevelopment is good for  
19 water quality because they're already required to  
20 increase natural features, such as low-impact  
21 development and treatment controls.

22 The technical advisory committee  
23 determined that preproject was appropriate  
24 independent of the other regions within the state  
25 that also considered and decided to use preproject.

1 By using preproject, we encourage redevelopment  
2 within our region. And in addition, jurisdictions  
3 can then require mitigation by having the  
4 appropriate nexus to the project impacts, thus  
5 being consistent with CEQA.

6 And considering the nexus, the legal  
7 topic of nexus to the project impacts, our attorney  
8 will be speaking on this later. So this slide is  
9 the table showing the other regions within the  
10 state that do support the preproject condition. In  
11 addition, the EPA has already set precedent in  
12 their Phase 2 regulations by defining that  
13 predevelopment refers to runoff that exists on site  
14 immediately before the planned development  
15 activities occur.

16 In red is Region 9, which recently  
17 started including naturally-incurring. This slide  
18 also shows the various exemptions throughout the  
19 state that this permit currently omits. The  
20 San Diego co-permittees recommends that the  
21 previously-adopted resolution be written into this  
22 permit. By doing so, we can continue to support  
23 hydrology matching to the preproject condition.  
24 This upholds our approved HMP exemptions, and it  
25 will also allow for us to adapt our HMP based on

1 scientific data which will be obtained through our  
2 HMP monitoring project. Thank you.

3 This is for another time, so I don't  
4 know how to turn this off.

5 MR. ABARBANEL: So I understand your  
6 recommendation. I understand your recommendation.  
7 Are there any exceptions that you discussed that  
8 you felt were not covered by the preproject  
9 identification that might be important to water  
10 quality?

11 MS. SLOAN: Any exceptions to the  
12 preproject? Well, if you consider that preproject,  
13 if you have a new development on open land -- and  
14 this was already discussed -- new development on an  
15 open land, using this preproject condition, that  
16 equates to the predevelopment naturally-incurring  
17 condition. It's simply redevelopment that would be  
18 punished by use of this naturally-occurring  
19 language in the permit.

20 MR. ABARBANEL: I can understand the  
21 difference between preproject and predevelopment  
22 that was made very clear by staff and by you. My  
23 question is, did you consider in your deliberations  
24 the possibility that the project that one is  
25 following might have severely impaired water

1 quality and needs restoration at some level, back  
2 maybe not to predevelopment, but pre -- the bad  
3 project.

4 MS. SLOAN: I'm sorry. The redevelopment  
5 is a bad project?

6 MR. ABARBANEL: No.

7 MS. SLOAN: The original project?

8 MR. ABARBANEL: Let's talk about  
9 preproject. Something is there.

10 MS. SLOAN: Okay.

11 MR. ABARBANEL: If you're now going to do  
12 something else. If you only consider going back to  
13 the conditions of pre -- your project, maybe the  
14 project that's there was a severely bad project and  
15 needs to be remediated.

16 MS. SLOAN: Right.

17 MR. ABARBANEL: How do we include that  
18 without going all the way back to predevelopment?

19 MS. SLOAN: That's what preproject does.  
20 You still have to mitigate for your water quality  
21 impacts and you have to incorporate low-impact  
22 development, which is mostly the same controls that  
23 you used to mitigate for hydromodification in the  
24 first place. They do help distribute flow so that  
25 you're not increasing peak flow and peak discharge.

1 So preproject does address those concerns in  
2 addition to treatment of the pollution which the  
3 site with would generate.

4 MR. ABARBANEL: You're not stuck. You're  
5 not necessarily stuck with all the bad things.

6 MS. SLOAN: No.

7 MR. ABARBANEL: Of the bad project?

8 MS. SLOAN: Based on requirements today,  
9 you would have an improvement to the water quality  
10 within the region, even if you had today's  
11 requirements with redevelopment, you would be  
12 improving. But yes, this preproject condition does  
13 improve water quality and address.

14 MR. ABARBANEL: Thank you for that  
15 clarification.

16 MR. FOWLER: Good afternoon. I submitted a  
17 card. My name is Brad Fowler. I'm the public  
18 works director and professional engineering with  
19 the City of Dana Point. Happy holidays.

20 First, I would like to say it's been a  
21 pleasure working with your staff and with the Board  
22 on this permit. I'm -- I really have enjoyed the  
23 discussion. It's been a great environment in which  
24 to work. My single point here is to ask you to  
25 please reinstate the concrete and hardened channel

1 exemption. I -- my public works staff and I are  
2 the face of the regional permit with our  
3 constituents. We are the ones that meet with the  
4 public on a daily basis to explain and implement  
5 the MPDS permit that you all promulgate.

6           Imagine my staff having to explain to a  
7 homeowner, a business owner, or a developer that  
8 they have to contain erosion in a concrete storm  
9 drain leading to a hardened channel where no  
10 erosion, loss of sediment or other impacts occur,  
11 or as Christina has suggested, or pay an equivalent  
12 fee.

13           Furthermore, our applicants and  
14 residents understand and support control of  
15 pathogens, toxins and heavy metals, but when it  
16 comes to controlling sediment, they just rank that  
17 as the same pollutant of significant concern. And  
18 they point out that our beach managers are asking  
19 for sediment refurbishment to boot. I -- I think  
20 charging a fee, as Christina suggests, will  
21 actually be viewed as extortion by our customers.

22           And where is the nexus? It appears to  
23 be a mitigation fee for something that causes no  
24 impact, and it would be unbelievably subjective to  
25 evaluate a possible impact and come up with a

1 charge. How would you estimate a price on the  
2 incremental reduction of erosion and water quality  
3 improvements for a reduction in turbidity to effect  
4 the benefits of hydromodification? And where does  
5 the money go and for what purpose does it go?

6 I would submit it is really quite  
7 impracticable. While restoration applies to the  
8 Clean Water Act, we're talking here about the MS4.  
9 So while I understand and conceptually appreciate  
10 the reason behind requiring a hydromodification fee  
11 for a hardened or concrete channel removal. And as  
12 a revenue generator, we certainly need the funding.  
13 I respectfully request that unless there is an  
14 active plan to remove a hardened channel, that the  
15 concrete and the hardened channel exemption be  
16 included in this permit. Thank you.

17 MR. ANDERSON: Can I ask a quick question?

18 MR. FOWLER: Certainly.

19 MR. ANDERSON: The current water permit  
20 that has the predevelopment standard with the  
21 hardened channel exemption?

22 MR. FOWLER: Unfortunately, we are in the  
23 process of submitting the standard and the current  
24 permit for review and we haven't gotten the final  
25 response yet. I will tell you that both San Diego

1 County and us up in South Orange County have spent  
2 a lot of time putting together that  
3 hydromodification implementation plan, and we would  
4 like to use those and continue to follow a plan  
5 that we've spent an awful lot of time and money on  
6 developing. Thank you.

7 MS. HASENIN: Can I ask just a question.  
8 Are you taking the speakers' slips in order? Do we  
9 just get up and speak on the issue?

10 MR. STRAWN: Unfortunately --  
11 unfortunately, the speaker cards don't describe  
12 which of the three topic areas you want to discuss.  
13 And since we thought it would make the most sense  
14 to go by topical area, we're sort of hoping you  
15 folks will come up in order by that topic. And  
16 we'll pull the card out and then when the pile gets  
17 a little bit smaller, we'll go back and see if we  
18 missed anyone.

19 Is that workable for everybody?

20 MS. HASENIN: Sounds good. Can I go next,  
21 then?

22 MR. STRAWN: You might pick on a follow-on  
23 to the hot seat so we can move this along.

24 MS. HASENIN: Good afternoon. My name is  
25 Sumer Hasenin. I did submit a slip, I believe it's

1 a green one. I am with the City of San Diego, but  
2 I am also part of the San Diego County Corporate  
3 Land Development Group, and would like to speak a  
4 little bit on the HMP. I just want to go back to  
5 the question that was asked about restoration for  
6 redevelopment project. So I think there is an  
7 opportunity under the tentative order language to  
8 actually address situations like this where the  
9 previous -- the existing development has very  
10 negative impacts to the watershed or the water  
11 body.

12                   There is a tentative order requirements  
13 or provisions under the existing development or  
14 management of existing development and also under  
15 alternative compliance to consider these  
16 opportunities for restoration and rehabilitation.  
17 And these, we think, would be best addressed in the  
18 water quality improvement plans by looking at the  
19 watersheds as a whole and identifying these  
20 opportunities.

21                   And we think this would be a lot more  
22 appropriate to achieve that goal by doing it this  
23 way on a watershed base level rather than imposing  
24 the HMP requirements on project-by-project level  
25 where the impacts may not even be caused by that

1 project. So this goes back to, I believe it was  
2 Mr. Strawn that asked the question before  
3 lunchtime, can we legally basically make a project  
4 comply with these requirements if the project is  
5 not causing an impact. So I an engineer. I won't  
6 even attempt to talk about the legal issue, but  
7 even in terms of toxicity of applying the permit  
8 in terms of consistent equitable standards for all  
9 development projects, we really think we don't have  
10 a justification to require projects to implement  
11 hydromodification controls on the site or even pay  
12 into an -- in lieu of fund for impacts that did not  
13 cause it.

14                 So if the project is less than 5,000  
15 square foot, for example, it does not have the  
16 potential to cause erosion to a concrete line  
17 channel, then how can we vision a plan review staff  
18 that issue development permits, how can we justify  
19 for them that they are required to pay into a fund?

20                 And then I would also like to point out  
21 on one of the slides that Ms. Arias showed on the  
22 decision matrix from the San Diego  
23 Hydromodification Plan, that basically the only  
24 change that would be required is to change the very  
25 last box on the left-hand side, basically as the

1 project is exempt, then we would make them pay into  
2 the fund.

3 I would like to point out that this  
4 matrix -- this is very much oversimplified. This  
5 matrix was developed and we reached that conclusion  
6 based on the that development project does not have  
7 the potential to cause erosion to the downstream  
8 channel, so that's why they reached the box on the  
9 left-hand side.

10 So by just scratching and saying okay,  
11 you don't have an impact but you still have to pay  
12 into a fee, we don't see that justification being  
13 established. Thank you.

14 MR. BURTON: Thank you so much. I'm  
15 Richard Burton, program manager for the Orange  
16 County Stillwater Program. I do have a prepared  
17 response to all of the questions that were posed,  
18 so if I could, but on the -- on the issue of  
19 hydromodification specifically, one of the key  
20 tenants of our input through the focus meetings and  
21 through the last board workshop, that is the goal  
22 of the Clean Water Act in its entirety is  
23 restoration.

24 All of the regulatory tools and all the  
25 regulatory programs within the Clean Water Act are

1 intended collectively to achieve the goal of  
2 restoration. But we are here today as permitted  
3 municipal discharges of stormwater are dealing very  
4 specifically with Section 402B. We have an  
5 obligation to eliminate nonstillwater discharges  
6 and controlled pooling discharges from the MEP, and  
7 that's our obligation.

8           Second, we -- I'm sure you will hear  
9 from all the discharges about the importance of the  
10 engineered channel exemption. If a site draining  
11 to an engineered channel has no hydrologic  
12 hydrographic impact, how can you ask the project  
13 proponent to mitigate for all -- for what? No  
14 impact. The first speaker neatly summed up or made  
15 the point with her presentation, the board recently  
16 adopted municipal stormwater permits in California,  
17 North Orange County, Ventura, Los Angeles, San  
18 Bernardino, Riverside have the engineered exception  
19 in them.

20           With regard to what we have been doing  
21 in North Orange County particularly over the last  
22 12 months, we have been implementing a new program,  
23 retention-based program or land development that  
24 has hydromodification management obligations in it,  
25 but whether a site -- whether a proponent must

1 consider hydromodification or not is based on  
2 reference to a hydromodification susceptibility  
3 map. You look at your project site, we have a  
4 series of maps that cover North Orange County  
5 watersheds. If you're draining to a channel  
6 segment that has been deemed susceptible to  
7 hydromodification, you mitigate the  
8 hydromodification.

9                   It has been a noncontroversial program.  
10 We are over 12 months into implementation. We did  
11 a review workshop with the development community.  
12 There were no objections. There were no  
13 controversies raised. It is program that is  
14 working, but it is working because it makes sense  
15 to do hydromodification management where there is a  
16 susceptible channel.

17                   I also want to just point out that we  
18 also are looking for another exception in a  
19 different environmental compliance regime for Green  
20 Street and I wouldn't want to lose sight of that.

21                   So in conclusion, the issue of  
22 engineered channels and what is required of  
23 somebody draining to them is an area where we think  
24 we have a fundamental disagreement with your staff,  
25 and that's an issue. That's very important to us.

1 Thank you.

2 MS. STROUD: Good afternoon. I'm  
3 Heather Stroud. I'm a Deputy City Attorney with  
4 the City of San Diego, and I'm just going to  
5 address the predevelopment nexus legal question  
6 that came up briefly. I appreciate that you have  
7 asked your legal counsel for opinion on that. It's  
8 -- you know, it's a legal issue, but it's a pretty  
9 simple legal issue in that you're not allowed to  
10 require mitigation beyond what the impacts of the  
11 project are.

12 And there's two Superior Court cases  
13 that are directly on point. And also in California  
14 we, have the Mitigation Fee Act. So the same rules  
15 would apply to any in lieu fee. In other words,  
16 the alternative compliance doesn't get you out of  
17 the legal problem if the project itself isn't going  
18 to have an impact on hydromodification.

19 And then just to address the question  
20 that was asked about whether a better definition  
21 could be hammered out for the predevelopment  
22 standard, I don't think that that's really going to  
23 be possible because it's such a fact-intensive  
24 inquiry that's going to be site by site. I think  
25 it's a little bit oversimplistic to imply that you

1 could just look at the soil type and answer that  
2 question because it's also based on the vegetation  
3 cover and the site topography, among other things.

4 And the historic conditions of the site  
5 really are going to be up for argument. And we  
6 don't want to be in a position as municipalities to  
7 be arguing with every single developer that comes  
8 in the door about what the appropriate  
9 predevelopment conditions are.

10 So with that, we would be happy to meet  
11 with your counsel if that would be helpful. I  
12 would suggest that you follow up with her on that  
13 question. Thank you.

14 MR. STRAWN: If there are any questions  
15 from the Board. And there was a green card here  
16 from Karen Cohen, that wanted to follow Mr. Boone.  
17 Do you want to step up?

18 MR. BOONE: Good afternoon. That was  
19 bacteria, not on hydro.

20 MR. STRAWN: We'll hold that, then.

21 MR. CALLACOTT: Good afternoon. My name is  
22 Bob Callacott, and I'm here today on behalf of the  
23 Riverside County Transportation Department. And I  
24 would like to address question number 5 under  
25 hydromodification, which is the co-permittees

1 commented that road projects have unique space  
2 limitations and may not be able to meet retention  
3 and HMP requirements. Should road projects be  
4 treated differently and could -- requirements of  
5 the new Cal Trans Water Permit be used to provide  
6 more options. And this was a question raised by  
7 Grant Destache. The transportation department does  
8 not believe that the Cal Trans approach would be  
9 appropriate. However, during the November 13th  
10 workshop, Patti Romo, the deputy director of the  
11 Riverside County Transportation Department, asked  
12 the Regional Board to direct staff to consider the  
13 approach taken in the 2010 MS4 permits for the  
14 Santa Ana and Santa Margarita regions of Riverside  
15 County and the 2012 MS4 permit for Los Angeles  
16 County.

17           The 2010 MS4 permits for the Santa Ana  
18 and the Santa Margarita river regions of Riverside  
19 County allowed for the MS4 permittees to develop  
20 planning and design guidance for the incorporation  
21 of postdevelopment or permanent DMPs into  
22 transportation improvement projects in lieu of  
23 projects -- specific water quality management plans  
24 or projects specific storm -- standards and storm  
25 water mitigation plans.

1 Riverside County transportation project  
2 guidance addresses improvements to streets, roads,  
3 highways and freeways and it incorporates the  
4 principles contained in the USEPA guidance managing  
5 what weather with green infrastructure, Green  
6 Streets and addresses hydrologic conditions of  
7 concern and criteria. It is protective of water  
8 quality.

9 The transportation project guidance was  
10 reviewed and approved by the executive officer of  
11 the Santa Ana Regional Board in October. For the  
12 Santa Margarita river region, the transportation  
13 project guidance is part of the standard stormwater  
14 mitigation plans that were subject to a 30-day  
15 public review and comment period. This  
16 transportation project guidance was submitted to  
17 your executive officers in July, and to date, no  
18 comments have been received from your staff.  
19 The 2012 MS4 permit for Los Angeles County requires  
20 street and road construction projects of 10,000  
21 square feet or more of impervious surface area to:  
22 One, follow the USEPA guidance regarding managing  
23 wet weather with green infrastructure, Green  
24 Streets, to the maximum extent practicable; And  
25 two, to address hydromodification control measures.

1 However, projects that are replacement, maintenance  
2 or repair of permittees existing transportation  
3 network may be exempted from the hydromodification  
4 control measures.

5 Further, the Los Angeles MS4 permit  
6 does not impose post-construction or permanent BMPs  
7 on routine maintenance activities, such as  
8 conducted to maintain original line and grade.  
9 Hydrologic capacity, original purpose of facility  
10 or emergency redevelopment activities required to  
11 protect public health and safety including  
12 impervious and repaving such as reconstruction of  
13 parking lots and roadways, which does not disturb  
14 additional area and maintains the original line,  
15 grade and alignment.

16 The Riverside County permittees have  
17 several concerns with utilization of Cal Trans MS4  
18 permit as a source, quote, unquote, to be used to  
19 provide more options. I guess I'm running over  
20 time.

21 The Santa Ana and Santa Margarita  
22 permits have dedicated substantial time and  
23 resources to developing this transportation project  
24 guidance, and this is intended to provide a  
25 consistent structure that -- procedure during the

1 planning and design of this transportation  
2 improvement project.

3           The Riverside County co-permittees  
4 would like to be afforded the opportunity to  
5 implement this transportation project guidance  
6 which they have invested a lot of time and effort  
7 into with the confounding certainty that it will be  
8 irrelevant in only a couple of years. We would  
9 like to request the Regional Board direct its staff  
10 to: One, draft the MS4 permit provisions that  
11 treats transportation improvement projects  
12 differently than other types of land development or  
13 redevelopment projects; and two, specifically  
14 consider the transportation project guidance  
15 submitted to your executive officer in July as a  
16 model preferable on the Cal Trans MS4 permit.  
17 Thank you.

18           MR. STRAWN: How many more speakers do we  
19 have on hydromodification.

20           MS. ARIAS: Before we go on, I wanted to --  
21 we got a handout from Orange County has written  
22 responses to all of the questions and all of the  
23 categories. It does include also, you know, the  
24 cost information that you were looking for. As far  
25 as handouts coming in, you know, I think they may

1 be helpful to you. You may not have much of an  
2 opportunity to actually read them.

3 If -- if you would like, I can give  
4 them to you and during the break, take a little bit  
5 longer break and actually have an opportunity to  
6 review them and your staff could do the same.

7 But I'm not sure how many more sets of  
8 handouts we're going to get. If you would like,  
9 I'll go ahead and bring them around.

10 MR. STRAWN: Do we have lots more handouts  
11 or are we -- and then I assume since that talk  
12 about the cost, we'll come back to that issue and  
13 someone will speak to it later, I guess, on topic.

14 I enforce here the three minutes.

15 MR. CRATENBARREL: I'm Donald  
16 Cratenbarrel. It's been 32 years since I came  
17 before the Board. I remember Dave Parker. I  
18 remember from those days.

19 What I'm reading today is a little  
20 different. It's a little more general than  
21 specific questions. And having to do with Sunset  
22 Cliffs and natural park which is slipping into the  
23 ocean. Number five, disappearing part, all of  
24 those things. And as you will see when you get  
25 this, there's two things. One is a letter that we

1 sent to the Coastal Commission and it's been  
2 endorsed by the planning board. So that will give  
3 you an idea of where we're coming from, what our  
4 general plans are.

5           What I would like to specifically deal  
6 with right now is the hydromodification. And do we  
7 have hydromodification. We have ravines that have  
8 been cut. And this is well recognized by the  
9 Regional Board. In 1992, they asked the City of  
10 San Diego to -- they didn't do a cease and desist  
11 or anything like that, but they wrote a letter that  
12 said that they would like to have it taken care of  
13 before the next rainy season. So here we are, 20  
14 years later, nothing has been done.

15           The City seems to have any intention of  
16 doing anything. There's no money appropriated, and  
17 so I know that's a different issue. But we would  
18 like to see something done. And one of the things  
19 that could be done, if you turn to the back of the  
20 handout, there's basically three questions we have.  
21 And it has to do with the process.

22           Hydromodification that I showed  
23 evidence of and everyone knows about. Is it  
24 regulated by the new stormwater permits? Will that  
25 be brought into it? Will the City have to be part

1 of that? And then where does that fit into the  
2 planning process? We got nothing but ambiguous  
3 answers, and how will it be determined if the City  
4 is complying? These are things that I hear people  
5 dealing with because none of the projects the City  
6 has proposed so far will stop the ocean --  
7 discharges to the ocean of turbid water, which is  
8 in direct violation of OSHA Plan and the Clean  
9 Water Act.

10 So those are the questions we're coming  
11 to and if we can just go through the handout I  
12 have. The first two pages are the 1992 letter that  
13 the Regional Board issued on the City and -- to  
14 clean this up before the next rainy season. They  
15 talk about the impacts that the discharges are  
16 having on the marine environment and land forms,  
17 and these are excerpts.

18 Another point I'd like to make, you see  
19 this gravel of rainfall. You can see our rainfall  
20 coming. In about every five years, you get a major  
21 storm. 2004, 2005 we had a major storm. And it --  
22 it did massive damage to the park. You can see  
23 this next picture, woman walking along with her  
24 Doberman, it looks like. That erosion feature that  
25 moved back about three -- two to three -- about

1 two months almost undermined the coastal line that  
2 runs from Point Loma Wastewater Treatment Plant to  
3 Miramar Landfill. That's a picture of my wife.

4 This cavern originated in just -- in  
5 the 2004, 2005 year. Here's our discharges. There  
6 are no discharge there are no outfalls there.  
7 Water pours over the cliffs as waterfalls. Two of  
8 the waterfalls and -- I'm out of -- I'm here, but  
9 the danger where these waterfalls go over, they  
10 loosen the bedrock. There is a couple sitting  
11 there two weeks later, the landfall, so it -- you  
12 can see the turbidity. I don't think I need to go  
13 point by point any further, and it's not -- it's  
14 not controversial.

15 So my question is if anybody here can  
16 give me an answer, is are we -- are these new  
17 stormwater reservoirs going to cover -- cover this.  
18 And I think the Regional Board's responsibility as  
19 the Postal Commission has that much responsibility,  
20 but it definitely impacts water quality. If you  
21 can help us.

22 MR. STRAWN: Thank you.

23 MR. BOWLING: Good afternoon. I'm Dennis  
24 Bowling. I'm a principal with Rick Engineering  
25 Company. I'm also the chairman for the technical

1 advisory committee for the Hydromodification  
2 Management Plan for San Diego County. And earlier  
3 in the presentations, you heard Christine Sloan  
4 give a very good overview about how we came up with  
5 the exemptions for hydromodification management in  
6 that hydromangement plan.

7           The streams that we show that should be  
8 exempt are streams that definitely should be  
9 exempt. It's like the Otay River downstream of  
10 Otay Lakes where the water source for that river  
11 has been severely impacted by the Otay Lakes  
12 themselves. They're not the rivers that you saw  
13 earlier in the presentations from staff that were  
14 severely hydromodified. In streams like that, the  
15 controls for hydromodification management make  
16 perfect sense and those are also good places for  
17 restoration.

18           But when we look at areas like  
19 downstream of Otay Lakes that are discharging into  
20 a hardened channel that is not subject to hydromod.  
21 Those exemptions should remain. And for those who  
22 say that you can't take that concrete channel out  
23 and replace it with a more natural channel in the  
24 future, are just wrong. An engineer-natural  
25 channel could definitely go into the place at any

1 time of those concrete channels. It would have a  
2 different geometry and it would look different, but  
3 it would be engineered and not subject to hydromod.

4 So to take that exemption out -- to  
5 keep that exemption as it is today does not  
6 preclude any restoration projects that are  
7 proposed.

8 Another thing that staff showed earlier  
9 today was that large flow chart that was very hard  
10 to read. When we went through a lot of pain in  
11 putting that flow chart together to show which  
12 projects were and were not subject to  
13 hydromodification management. And when you got to  
14 the end of it, when it said you weren't subject to  
15 hydromod, to say that we're going to replace that  
16 exemption with something like you're going to have  
17 to look at off-site BMP, or you're going to have to  
18 look at a retrofit project, or a rehab project or  
19 an additional in lieu fee, really adds a degree of  
20 complexity to a project that's difficult for a  
21 developer to work with.

22 When you think about it, you buy a  
23 piece of grounds knowing the constraints in that  
24 ground and not having to think that you're going to  
25 have to do some off-site project somewhere where

1 you have absolutely no control over the land. So  
2 it makes it very, very difficult to work with.  
3 We're adding a layer of complexity that's going to  
4 make hydromodification management in this county  
5 extremely difficult. Thank you.

6 MR. NABONG: Hello. It's Jim Nabong.  
7 I'm a civil engineer with the City of San Diego,  
8 and I'm going to try to not duplicate things that  
9 have been said as best as possible and just focus  
10 on what I think I can offer as a unique  
11 perspective. I really appreciate that the  
12 questions are being asked about hydromodification  
13 and off-site mitigation, and I think these are --  
14 these are really, you know, good discussions to  
15 have before we move forward to the date the  
16 decision has to be made on this permit.

17 What I have to offer is I am more of a  
18 hands-on implementer. I am involved on, you know,  
19 40 hours a week, I try to implement current  
20 permits. And one of the things that I feel proud  
21 to have accomplished was the pilot Green Streets  
22 Project. The retrofit that Ms. Arias showed on  
23 her last slide, so I was the one who made that  
24 happen. But I have a lot to share in terms of that  
25 hands-on day-to-day implementation of -- of real

1 practical experience of the challenges and, you  
2 know, you could take all the other statements and  
3 kind of imagine what that means in terms of doing  
4 it, this type of thing jurisdiction-wide  
5 watershed-wide.

6           So first off, that project, that Green  
7 Streets Project, it was a pilot project for -- we  
8 called it a pilot study and we're willing to take  
9 a lot more project risk under that kind of  
10 condition versus something that's more of a normal  
11 project where, you know, for instance, if we're  
12 saying you can't get your development permit unless  
13 you build something off site. You know, in this  
14 case we were willing to do this on a pilot basis  
15 and we're willing to learn from it. Completely  
16 failed. It would be an excellent learning  
17 experience, and we have had some -- some huge  
18 challenges with it. So the way I relate this  
19 experience with the -- the Green Streets retrofit  
20 feet to the hydromodification requirements, if you  
21 take a look at some of these sites and you can just  
22 think of the photos that we just saw of this  
23 building and its parking lot and that auto business  
24 and think about how much impervious surface there  
25 is and how much every square footage of that land

1 is utilized.

2                   So if you were to impose a  
3 predevelopment baseline to design your project to  
4 function hydrologically, the same as, you know,  
5 we're finding you may have to devote 20 percent of  
6 your land to be at peace. So -- there's definitely  
7 some challenges there. So -- so that basically  
8 pushes a lot of project applicants if they were  
9 held to that standard to have to find where are  
10 they going to do this off-site mitigation, and it  
11 was very challenging for us to find a location. If  
12 you look at those photos, you saw a lot of open  
13 space around the airport, a regulatory requirement  
14 to have that. You saw open space in Murphy Canyon.  
15 Part of the multiple species conservation plan. As  
16 far as you actually really finding places you can  
17 use, it's tough. We really lucked out and found  
18 this half-acre parcel that was vacant and we were  
19 able to use for that.

20                   Based on that, you saw, but it's very  
21 rare that you would find that, and that only treats  
22 the equivalent impervious area a very small  
23 priority development project. And then we have the  
24 landscaping strip, which is five feet wide and --  
25 we wouldn't really be able to mitigate for hydromod

1 for that. We were only able to do a certain level  
2 in reduction. And that's all I want on present.  
3 Thank you.

4 MR. O'CONNOR: Good afternoon, board  
5 members and staff. My name is Jeff O'Connor. I'm  
6 the director of operations for Otay Land Company in  
7 Carlsbad. Couple of speakers ago, Dennis Bowling  
8 mentioned that the Otay River, we're developing  
9 some land downstream, the Otay Dam. The dam was  
10 built somewhere in the -- 80, 90 maybe 100 years  
11 ago. And since then, the water is discharged  
12 downstream or sort of flows downstream. That dam  
13 has been reduced by over 80 percent.

14 What we are trying to do is we're  
15 trying to get clean water back into the river. And  
16 in order to implement our wetland restoration plan,  
17 we need that water in the river. Our plan will not  
18 work if we don't get water back into that river.  
19 It's been starved for 80 years. The vegetation of  
20 that river now shows that it's mostly consist of  
21 arundo and timorous. And our plan is to remove  
22 that plant wetland species and get that river back  
23 to where it should be. Thank you very much.

24 MR. PADRES: Good afternoon acting  
25 chairman and members. My name is Claudio Padres.

1 I'm from Riverside County Flood Control and Water  
2 Conservation District. I didn't speak to you a  
3 little bit about this at the last meeting, so I'm  
4 going to, like others, not rehash that. But I was  
5 going to try to elaborate on one point that I made  
6 last week, which is actually a question towards the  
7 end of the day probably about the one size fits  
8 all. I'll speak more to it when we get to that  
9 topic, but this is actually one example, I believe,  
10 where this permit does take the one size fits all  
11 approach.

12 But I won't claim that the whole permit  
13 is one size fits all, but there are elements that  
14 are. And this is one of those because instead of  
15 taking a watershed-based approach where you design  
16 your mitigation standards to mitigate the actual  
17 problems or to address this -- the specific  
18 scenario of a watershed, it's saying mitigate to  
19 the predevelopment standard everywhere. And in  
20 some cases that may be appropriate, but in other  
21 cases maybe preproject is the right standard.

22 In other cases, maybe an exemption is  
23 appropriate. And I know San Diego County  
24 co-permittees have gone to great lengths to  
25 identify areas where that is indeed appropriate and

1 scientifically defensible. So I guess that's my  
2 main point, is that this permit kind of has a  
3 disconnect. There's what's lumped into the  
4 Jurisdictional Runoff Management Plan, which is  
5 this -- at least in the case of hydromod kind of a  
6 one size fits all mitigation approach where  
7 everyone must mitigate to that predevelopment  
8 standard.

9                   Then there's separately, a water  
10 quality improvement plan requirement. That water  
11 quality improvement requirement is where you get  
12 all the stakeholders together. You identify the  
13 specific problems that you're experiencing at the  
14 watershed and the specific solutions to those  
15 problems. But instead of leveraging that and  
16 having that process decide and determine what is  
17 the best solution and the best mitigation, which  
18 may not be the same uniformly in that the whole  
19 watershed could be different for different streams  
20 in the watershed.

21                   But instead of using that, the  
22 requirements are saying same standard everywhere  
23 basically. So again, really what my request to the  
24 Board would be is to help -- is to really to direct  
25 staff to work with us to find a way to better link

1 those two so we're taking a proper leverage and  
2 we're leveraging that Watershed Water Quality  
3 Improvement Plan process to identify what the right  
4 mitigation for the right streams. And in a way  
5 that's scientifically defensible so we can then go  
6 to our developers and when they ask why do I have  
7 to do that, we don't have to throw our hands up and  
8 say well, the permit told us to.

9           We want to be able to say well, we have  
10 looked at these streams and this is really what is  
11 needed to protect this or to restore this, and your  
12 doing this is actually going to have a tangible  
13 benefit. It's not being done simply because it was  
14 written down in a permit. I think that's critical  
15 to building public support for our programs, and  
16 not engendering distrust among our development  
17 communities if we're just arbitrarily coming up  
18 with standards here. We want to be able to tie it  
19 back to specific problems. Thank you.

20           MR. BARRINGTON: Good afternoon. My name  
21 is Brian Barrington, Senior Deputy County Counsel  
22 for the County of Orange. Thank you for giving me  
23 the opportunity to speak. I just would like very  
24 generally to comment regarding the legal issues,  
25 the significantly legal issues that are associated

1 with hydromodification, particularly nexus and  
2 subjectivity.

3                   First I wanted to point out that the  
4 County does have some objections to its  
5 hydromodification requirements in its current  
6 permit. Second -- and just to reiterate what was  
7 said by Heather Stroud, City Attorney's Office for  
8 San Diego on the issue of nexus, there are two US  
9 Superior Court cases dealing with development  
10 actions and substantial nexus or rough  
11 proportionality that is needed. When the County  
12 requires some action or predevelopment hydrologic  
13 condition or some other compliance option of  
14 hydromodification requirement. And we would be  
15 required to comply with those cases, and whether it  
16 ends up in endless litigation or we exempt someone  
17 based on that we believe this is an  
18 unconstitutional action, we will have to prove that  
19 up later in an audit.

20                   There will be some hiccup in the  
21 process. We would encourage the chief counsel's  
22 office to examine the court cases on land  
23 development actions taking and other sort of  
24 general planning and zoning that could apply to  
25 this permit. There are also constraints among the

1 mitigation fee act. It does not always allow us to  
2 go back in time and apply fees to past issues.  
3 There is also Prop 26 concerns as well that we'll  
4 have to address, particularly with respect to in  
5 lieu fees.

6 Third issue, I want to bring the issue  
7 of subjectivity. It is -- the hydromodification  
8 presentation was -- did present a lot of subjective  
9 concerns, particularly having to define  
10 redevelopment standards or how you even require  
11 certain hydromodification in the first place. You  
12 know, Richard Boone from the County of Orange  
13 brought up the issues, what our Clean Water Act  
14 requirements are under Section 402B. And under the  
15 State Administrative Procedure Act, there must be  
16 substantial evidence to support some of these  
17 hydromodification requirements in the first place.

18 We believe that some of the evidence  
19 doesn't currently support that, that we've provided  
20 some arguments and previous workshops, and -- in  
21 the January filings, that may that show there --  
22 that there isn't evidence to support that in all  
23 cases at all times. So we would just encourage a  
24 detailed legal analysis and we would be happy to  
25 assist or were meet with you to help that along.

1 Thank you.

2 MR. STRAWN: We can't find a card for you,  
3 a speaker card.

4 MR. BARRINGTON: I wrote on it. I wrote --  
5 I'll file a new one with you.

6 MR. STRAWN: Will you please and make sure  
7 everybody has one before we come up.

8 MR. BARRINGTON: Sorry about that. Thank  
9 you.

10 MS. WITKOWSKI: Hi, I'm Jill Witkowski from  
11 San Diego Coastkeeper. I submitted a blue speaker  
12 card which actually says that I'd like to speak on  
13 the hydromod and two points on the cost questions.  
14 And I guess on the lone voice here in support of  
15 what the Regional Board has done, there would be  
16 others here except Collin Kelly from Orange County,  
17 Coastkeeper and Noah Garrison from NRDC decided not  
18 to make the long trip down to speak for three  
19 minutes. So I'm going to do the best that I can  
20 and in the three minutes to speak my peace.

21 But I do strongly agree with what the  
22 regional board staff has done. We need to think  
23 about why we're here. We're here dealing with  
24 stormwater, which is really expensive because we  
25 made poor development decisions in the past because

1 we paved paradise and put up a parking lot, and now  
2 here we go. We have way too much stormwater  
3 running off into our streams destroying our  
4 habitat, destroying our water quality. And we all  
5 agree the way to get back there is to undo those  
6 bad decisions that we did; that ultimately  
7 retrofitting is going to be the solution of making  
8 better land use planning decisions when we go back  
9 to revisit portions that we've already developed.

10 Which is I'm disappointed that the  
11 San Diego County co-permittees are saying  
12 preproject because preproject is status quo. And  
13 there's a saying, if you always do what you've  
14 always done, you're going to get what you've always  
15 gotten. And if we say preproject is the standard,  
16 what we have is the same amount of pollution that  
17 we have now. It's the same impact to our  
18 beneficial uses.

19 They actually -- I can't believe I  
20 heard that there aren't any impacts to a channel --  
21 a hardened channel -- concrete channel from  
22 development because it's concreted. Well, we have  
23 already lost that channel. That channel was a  
24 stream at some point. That habit that had  
25 beneficial uses and it's gone now. And I would

1 like to point out what we're talking about with  
2 this predevelopment versus preproject. What we're  
3 talking about is the amount of water that can leave  
4 the site. And the actual standard which is on Page  
5 103 of red-lined administrative draft is  
6 postproject runoff flow rates must not exceed  
7 predevelopment by more than 10 percent.

8                   So we're not even actually asking  
9 predevelopment. We're saying we know  
10 predevelopment, you get a little bit more. You can  
11 have more than that. And this whole concrete --  
12 well, we're -- we're going into a concrete channel,  
13 we shouldn't have to pay because it's not our  
14 fault. I think the Regional Board staff got a lot  
15 of support for including that people who redevelop  
16 in areas where they're entering into a concrete  
17 channel should pay their fair share because the  
18 Orange County co-permittees Riverside co-permittees  
19 actually convened a panel hydromodification  
20 experts, who basically said when specifically asked  
21 should we have an exemption for concrete channel,  
22 said no. Well, it's a policy decision but no,  
23 because hydromod isn't just scouring. It's all of  
24 the benefits, everything that we have now already  
25 contributes to it. So everybody should pay in for

1 the solutions.

2                   And I would also like to mention the  
3 alternative compliance, those details haven't been  
4 figured out yet. That's going to be done on a  
5 watershed basis, and that's where watershed groups  
6 get together and say this is what makes sense for  
7 our watershed. Everybody who is going to do work  
8 here is going to contribute to pollution and we're  
9 going to figure that out on a watershed basis.

10 Thank you.

11                   MS. PROCOPIO: Good afternoon, Julie  
12 Procopio with the City of Santee. Just wanted to  
13 address briefly a couple of items that have come up  
14 in the discussion first. Ms. Arias mentioned that  
15 she doesn't believe that -- she says we're not  
16 going back 100 years. Well, I argue that the  
17 naturally-occurring language that's in the permit  
18 right now is interpreted that you have to go back  
19 more than 100 years. You could have to go back  
20 indefinitely.

21                   And I think this is very subjective and  
22 certainly right for litigation, given the nexus  
23 issues that have been discussed previously. But I  
24 wanted to address a few comments that you made,  
25 Mr. Strawn, specifically about the admirable goal

1 of restoring natural watershed conditions.  
2 Co-permittees support this goal. We support  
3 restoring channels where it's feasible. And you  
4 asked well, how do we support it? What do we do in  
5 order on to support this goal? Well, the San Diego  
6 co-permittees have proposed to evaluate the  
7 potential for channel restoration in our water  
8 quality improvement plans and require each  
9 mitigation only where it will be beneficial. So we  
10 don't use it unless we need it.

11           And so I think that's a good solution.  
12 We avoid the one size fits all approach. We ensure  
13 that we protect the possibility of future  
14 restoration where -- where we see it as a  
15 potential. And I think that your goal is to  
16 improve water quality. It's not to provide these  
17 costly massive stiff storage basins on development  
18 sites to mitigate for impacts, HMP impacts, that  
19 are simply not there.

20           So -- and then I wanted to address  
21 something briefly that -- that Jill stated. I -- I  
22 argue that her argument about the preproject is the  
23 status quo. I totally disagree with that. Every  
24 redevelopment project has to incorporate extensive  
25 LID controls and even the EPA, everyone agrees that

1 the way we're doing redevelopment nowadays is  
2 beneficial to water quality.

3 HMP asked would be less likely to occur  
4 as a result of redevelopment project. So I think  
5 that is simply untrue, and some of the statements  
6 made about what the HMP panel concluded, I just  
7 simply disagree. The HMP panel had a lot of  
8 different ideas and certainly requesting --  
9 requiring a project to mitigate for an impact that  
10 they didn't create was something they understood  
11 may be out of our control.

12 So I just ask that you keep the  
13 San Diego HMP intact. I believe that it gets us  
14 closer to our goals, our shared goals. And it also  
15 keeps us out of potential lawsuits and keeps us  
16 from providing unnecessary mitigation where it's  
17 not needed. Thank you.

18 MR. LEJA: Good afternoon. Thanks for the  
19 opportunity to speak. My name is Richard Leja.  
20 I'm the president of the San Diego Highway  
21 Development Association. I wanted to build on a  
22 couple of previous comments, specifically as to how  
23 the permit, both current and past or current  
24 proposed deals with transportation projects.

25 Both the current and proposed permit

1 conditions are focused on land development type  
2 projects, and their associated solutions to promote  
3 water quality. We feel these are not viable for  
4 public roadway projects. In order to ensure the  
5 safety of everyone, they must be designed to meet  
6 the most stringent criteria to protect us from very  
7 real risks of traffic accidents, life and death  
8 considerations.

9           While some local roadways such as  
10 residential streets allow for more flexibility and  
11 treatment, high-speed roads do not. For example, a  
12 solution that can be viable in a parking lot or  
13 residential street such as a permeable pavement or  
14 pavers don't work for a high-speed road. There are  
15 serious safety concerns that don't make them  
16 viable.

17           Also, public roadways are not just  
18 about cars. Public roadways are also about  
19 utilities. Critical corridors for public utilities  
20 that we all use, such as sewer, drinking water,  
21 gas, electricity and communications. Although  
22 mostly unseen, they are critical to all of our  
23 lives. Through this implementation that's being  
24 proposed, those things can actually be disturbed  
25 because of the need for underground retention.

1                   So what we're proposing, as a previous  
2 speaker Bob from Riverside was talking about, is  
3 the implementation of transportation, specific  
4 criteria that will be practical for roadway  
5 projects, similar to, but not the same as, the Cal  
6 Trans MS4 Permit. In addition to those, we also  
7 request that the two-lane exemption limitation for  
8 roadway retrofit projects be removed and that all  
9 roadway retrofit projects are allowed to achieve  
10 compliance through any of the provisions of the  
11 alternative compliance available to the projects.

12                   We further request that the requirement  
13 for compliance of any measure be limited to those  
14 that can be installed within the right-of-way which  
15 is shown on the adopted general plan for the  
16 facility being constructed. It's really -- the way  
17 the permit's written right now, it talks about two  
18 lanes versus four lanes as the exemption. That's  
19 -- that's not the critical criteria. The critical  
20 criteria is about design. A four-lane road is much  
21 more problematic to implement what you're talking  
22 about. Therefore, we encourage you to look at the  
23 modified MS4 conditions that were submitted in July  
24 specific to transportation facility and implement  
25 them. Thank you.

1 MR. STRAWN: What was your name again.

2 MR. LEJA: Richard Leja. There should be  
3 one listed. It should say Eric Orr or Richard Leja  
4 from Highway Development Association.

5 MR. STRAWN: Blue or green? Got it. Thank  
6 you.

7 MS. CHUNN-HEER: Julia Chunn-Heer from  
8 Surfrider San Diego. I will speak briefly on  
9 hydromodification and some of the cost  
10 implications. I would like to start by saying I  
11 definitely support staff and staff presentation  
12 made this morning as well as my environmental  
13 colleague, Jill, who spoke earlier and those who  
14 were weren't able to stay all day and had to leave  
15 before lunch.

16 Our organization is very invested in  
17 this process. If anything comes of our concerns  
18 about how to incorporate more triggers so that more  
19 existing developments could be incorporated to  
20 change it. And to some of the comments, I'm not  
21 going to go over everything that's been stated  
22 already. Just try to stick to new information.

23 Director Morales made some types of  
24 questions about BMPs in -- if they were in Logan  
25 Heights or in Rancho Santa Fe, and with our

1 experience with ocean-friendly garden, those BMPs  
2 can be made beautiful wherever they are with some  
3 beautiful native plants and things of that nature,  
4 whether it's in Rancho Santa Fe or Logan Heights,  
5 they can definitely be aesthetic improvements.

6           The comments about moving a river,  
7 whatnot, it's about calculating capture. It's  
8 about calculating water capture and not necessarily  
9 moving rivers or moving houses. While I empathize  
10 with many of the speakers you have heard from  
11 today, the fact is, you know, some of these changes  
12 might be difficult, but if we don't make the  
13 changes, nothing is going to change. The  
14 definition of insanity is doing the same thing over  
15 and over again, expecting the same results. So we  
16 need to make some changes if we want to see  
17 improvements in the water bodies. Thank you.

18           MR. STRAWN: You had a question.

19           MR. ANDERSON: Do the standards that are  
20 incorporated in the permit, do they help get the  
21 redevelopment projects into a better situation for  
22 water quality?

23           MS. CHUNN-HEER: To this point, we -- the  
24 drafts I have seen, yes.

25           MR. STRAWN: Any other comments on

1 hydromodification? Just one question. Earlier,  
2 all my comments were about preproject versus  
3 predevelopment, and then I was reminded on one of  
4 the charts that there's a third term called  
5 "naturally-occurring." Is that really a third  
6 category? That is just a different way of saying  
7 predevelopment and no lawyer is going to argue  
8 otherwise in court. Okay.

9 MS. CHUNN-HEER: The EPA does have a  
10 different definition for predevelopment, which I  
11 had mentioned earlier in the Phase 2 regulation. I  
12 can give you the citation if you want.

13 MS. SLOAN: I have a citation for that.

14 MR. MORALES: I have a comment for some of  
15 the people that would ask if something was legal or  
16 not. I give the same response that -- always give  
17 me. You can do it with enough time and money.

18 MS. SKORPANICH: I'm Mary Anne  
19 Skorpanich with the County of Orange. And to that  
20 last question about naturally-occurring in  
21 predevelopment, in many parts of Orange County we  
22 have white-spread grazing, for example. And where  
23 trees were removed and -- landscape was changed  
24 rather significantly as well as the rate of which  
25 sediment sheds off the lands.

1                   That had nothing to do with development  
2 per se, but wasn't necessarily naturally-occurring,  
3 so I think there is a distinction between the two.

4                   MR. STRAWN: Thank you. So I guess I'll  
5 leave that as an open question. We should consider  
6 which of those two terms are going to be in the  
7 report and/or in the permit. Is it all one way or  
8 the other now, or -- and I don't need to go into  
9 this right here, but I want to leave this as an  
10 open question. If you can address it quickly, go  
11 ahead.

12                   MS. HAGAN: So I think your question was,  
13 does the permit mention both terms or tentative  
14 order, and the answer is yes, it does. And what --  
15 it reads predevelopment and in parentheses  
16 naturally-occurring. That's how it reads in the  
17 tentative order.

18                   We can -- we can revisit the definition  
19 that we have here to make sure our point is clear,  
20 and I was also thinking that one thing I think  
21 would help is if we make sure that our fact sheet  
22 is very clear about how we intent for the  
23 predevelopment condition to be recorded, my  
24 discussion about soil maps and whatnot.

25                   So we will go ahead and add that to the

1 fact sheet to make it clear that we're -- the  
2 intent is not to look back 500 years, that kind of  
3 thing. Hopefully, that will help.

4 MR. STRAWN: Thank you very much. Are we  
5 ready to go to --

6 MS. ARIAS: I just wanted to indicate that  
7 I have heard the legal issues discussed today as  
8 they were first raised by Mr. Anderson earlier, and  
9 it's definitely something that we will look into.  
10 And I do want to get with staff and look at the  
11 exact permit language that we're talking before we  
12 come up with any legal conclusion. But we will be  
13 working on that and I'll be providing them with  
14 further advice on the Board with further advice as  
15 we move forward in this process.

16 MR. CHU: Good afternoon, Acting Chair  
17 Strawn and members of the Board. I'm Wayne Chu.  
18 Is that better? I'll try to speak away from the  
19 microphone.

20 Again, Acting Chair Strawn, members of  
21 the Board, my name is Wayne Chu. I'm water  
22 resource control engineer with the southern  
23 watershed unit. And I've been tasked with  
24 answering the questions on Page 2 of the supporting  
25 document, one of which includes the questions

1 pertaining to TMDC or Total Maximum Daily Loads,  
2 and I guess, the other category questions.

3           Now, these -- I'm going to be taking  
4 these questions a little bit out of order because  
5 they don't all quite fit together. So I'm going to  
6 actually start out with question 2 under the other  
7 categories. That's the one related to the  
8 non-stormwater discharge from putting in foundation  
9 drains. Then I'll go into answering the questions  
10 related to the TMDL, specifically the one most  
11 related -- the beach increased bacteria TMDL as  
12 they're in the permit requirement now, and then  
13 I'll wrap up my portion with answering the question  
14 -- providing an answer to question 1 on the other  
15 category. And I'll probably take a pause between  
16 the first question about the non-stormwater  
17 discharges and kind of combine my answers for the  
18 TMDL and other because -- they are somewhat related  
19 if that's okay with you.

20           So let me begin with question 2 under  
21 the other category. This was asked by Mr.  
22 Anderson. It was basically a question asking for  
23 additional clarification about the elicit discharge  
24 requirement pertaining to discharges from putting  
25 in foundation drains. Now, this question is a very

1 specific question about a very specific part of the  
2 permit, so I'm just going to try to explain how it  
3 evolved and became part of the permit and how it's  
4 supposed to work. And if you have questions, I'll  
5 try to clarify as much as I can.

6 So in the Orange County and Riverside  
7 MS4 permits, but not in the San Diego County  
8 permit, non-stormwater discharges from the footing  
9 drains and foundation drains are required to enroll  
10 under an MPS permit for discharges from groundwater  
11 extraction operation to surface waters. We have  
12 two of these types of permits in this region. One  
13 specifically for discharges from groundwater  
14 extraction to San Diego Bay and another one for all  
15 the other surface waters in the region.

16 Now, the application under both of  
17 these permits to enroll under the permits requires  
18 a submittal of analytical data from groundwater  
19 that's going to be extracted and discharged. So  
20 during the development of this tentative order, it  
21 was brought to our attention that there are  
22 situations where a project might include a footing  
23 drain or a foundation drain that is actually  
24 located above the groundwater table.

25 And these footing and foundation drains

1 are placed there in case water that infiltrates  
2 from precipitation or irrigation perhaps, you know,  
3 infiltrates to the footing or foundation, and that  
4 drain is basically going to direct that water away  
5 from the foundation to protect it from damage.

6           So -- but because these footing or  
7 foundations drains are located above the  
8 groundwater table, it's kind of hard for them to  
9 collect a groundwater sample for analysis to  
10 actually enroll under the permits for these types  
11 of discharges. So we made an adjustment to this  
12 permit, so that only projects that are located --  
13 that have these types of drains located or required  
14 to enroll under the MPS permit or permits, one of  
15 the permits in order for the co-permittees not to  
16 treat them as an illicit discharge.

17           Now, for all other projects that are  
18 located above the groundwater table or these drains  
19 are above the groundwater table, they're not  
20 required to enroll under the MTS permits, but they  
21 have to be addressed as illicit discharges by the  
22 co-permittees if they are discharged non-stormwater  
23 and if they are found to be a source of pollutants  
24 that is of a concern. Now, this will be  
25 accomplished through their illicit discharge

1 detection and elimination programs that are  
2 required, and so you know, we would expect that,  
3 you know, the adjustment we made should address the  
4 concerns that they brought to our attention.

5           Is that clear? Is that understandable?  
6 I know it's a somewhat complex issue. If you don't  
7 have any questions, I'll continue on with the TMDL  
8 questions. My arm is actually getting really tired  
9 holding this thing.

10           MR. MORALES: I do have a question, and it  
11 may not be an easy one.

12           MR. CHU: For the last --

13           MR. MORALES: Yeah. Is there a very simple  
14 way of explaining that because if I get asked the  
15 question, I'm not going to be able to explain that  
16 as well as you just did.

17           MR. CHU: The simple answer is if there's a  
18 footing drain located at or below the groundwater  
19 table, it's required to enroll under the MPS permit  
20 for groundwater extraction, and they can do that  
21 because they can collect the groundwater. If it's  
22 located above, then they're not required to enroll  
23 under the MPS permit. But if there's a discharge,  
24 then that may be considered an illicit discharge if  
25 it's a source of pollutants.

1           MR. MORALES: So if there's a discharge --  
2 any type of discharge, it could be considered a  
3 discharge, a source of -- regardless of whether  
4 it's a footing or foundation drain?

5           MR. CHU: Correct, correct. Basically, you  
6 know, this is part of a -- the permit that deals  
7 specifically with non-stormwater discharges and how  
8 the co-permittees are expected to treat  
9 non-stormwater discharges as either illicit or  
10 something that only needs to be addressed, if  
11 that's -- a very specific section and provision  
12 within the federal regulations.

13           MR. MORALES: Okay.

14           MR. CHU: So can everyone hear me now?

15           Okay. So let me continue. Questions  
16 related to the total maximal daily loads. And  
17 these are questions that all are related  
18 specifically to the beach and creeks bacteria TMDL,  
19 which I'll be referring to here on out as just the  
20 bacteria TMDL. Now, there are five questions that  
21 were laid out but when I was reviewing the  
22 questions, the questions appeared to be asking  
23 clarification primarily in two areas.

24           The first is really asking the  
25 feasibility of achieving the requirements of the

1 bacteria TMDL. That's questions 1, 2 and 5. And  
2 then, you know, the other area of clarification  
3 needed was related to water quality limitations  
4 effluent permit requirement or WQBEL's, as I'll  
5 refer to them. And the way they're expressed or  
6 should be expressed as permit requirement.

7           So let me just refresh your memory  
8 about what a TMDL is. A TMDL is the maximum amount  
9 of pollutant that a water body can receive and  
10 still attain water quality standards, and the water  
11 quality standards are laid out in our basic plan.  
12 The answer to both of these questions and all of  
13 these questions fundamentally begin and end with  
14 the basin plan. But before I get into the details,  
15 let me just give you the short answer to all of the  
16 questions.

17           In response to the feasibility  
18 questions, our answer is yes, it is feasible. Or  
19 we believe achieving the requirements of TMDL is  
20 feasible, and we have great confidence that over  
21 the next 20 years the co-permittees will be able to  
22 implement and advance the science that will allow  
23 them to achieve the requirement of bacteria of the  
24 TMDL. Now, in response --

25           MR. ABARBANEL: What measurements are

1 actually made to determine what the load is?

2 MR. CHU: Are you asking how the  
3 calculations are actually --

4 MR. ABARBANEL: What's done? Give you a  
5 sample of water and I say how much bacteria per  
6 cubic liter or whatever measure you use?

7 MR. CHU: Well, right now, you know,  
8 there's some -- basically it all comes down to  
9 these indicator bacteria analyses that calculate,  
10 you know, the most probable number of colonies of  
11 bacteria. And we have standards within our basin  
12 plan that lays out the objectives that need be  
13 achieved in order for the water quality to be  
14 considered supporting the beneficial uses. Most of  
15 the bacteria water quality objectives are  
16 associated with recreational beneficial uses.

17 MR. ABARBANEL: I understand the  
18 objectives, but the chairman of the board of  
19 supervisors stood in the equivalent place but south  
20 of here, and said it couldn't be done.

21 MR. CHU: Right.

22 MR. ABARBANEL: You're standing in the same  
23 place and saying it can be done. I'm saying I  
24 don't know if it can be done; tell me how to do it.

25 MR. CHU: And I will try to explain that as

1 well as I can when I get into the details. I will  
2 get into that a little bit more and in fact, at the  
3 end of that, I will -- I still haven't answered  
4 your question. I will try to.

5 MR. ABARBANEL: If you're going there, I'll  
6 wait.

7 MR. CHU: Okay. But let me give you the  
8 short answer to the other question. In response to  
9 the questions about how WQBEL's should be expressed  
10 in the permit, the WQBEL's, we believe has been  
11 expressed as intended by the bacteria TMDL, but we  
12 also believe that there may be some additional  
13 components that can be added to the WQBEL's that  
14 could provide some additional flexibility to the  
15 co-permittees to demonstrate that they are  
16 complying with the TMDL, and that gets a little bit  
17 to your question, Mr. Abarbanel.

18 I'll go through my answer and hopefully  
19 that will make it a little bit clearer. So as I  
20 said before, the -- the answers to the questions  
21 really begin and end with what's in the basin plan  
22 and the requirements of the TMDL were based --  
23 developed based on the water quality objectives for  
24 bacteria in the basin plan. Now, the TMDL includes  
25 requirements to address bacteria loads during dry

1 weather and wet weather. And they are very  
2 specific components, and this is important to the  
3 feasibility question.

4           So now for those of you who weren't  
5 around when this TMDL was initially being  
6 developed, I believe Mr. Anderson was, so he  
7 probably heard a lot of the earlier deliberations.  
8 Back then, the basin plan actually only included  
9 water quality objectives for bacteria without any  
10 pathway to consider exceedances of those water  
11 quality objectives that may have been caused by  
12 natural or background sources of bacteria.

13           Now, for the dry weather bacteria TMDL,  
14 this doesn't really have much of an effect because  
15 the assumption is, at least for this TMDL, the way  
16 it was developed, the assumption was that it was  
17 all the bacteria loads during the dry weather were  
18 due to anthropogenic (phonetic) activities and were  
19 primarily being discharged from the co-permittees  
20 MS4 during dry weather. That's why the elimination  
21 of non-stormwater is such an important permit.

22           When the co-permittees are in  
23 compliance with the, you know, the fundamental  
24 requirement of the Clean Water Act, or an MS4  
25 permit, which is to effectively prohibit

1 non-stormwater discharge into the MS4 and thus,  
2 eliminating non-stormwater flows from  
3 non-stormwater flows and the bacteria loads  
4 associated with that MS4. They will be in  
5 compliance with the bacteria TMDL for dry weather.  
6 So co-permittees are already required to implement  
7 a program, as I mentioned, the last answer. To  
8 implement their illicit discharge detection program  
9 to eliminate or effectively prohibit those  
10 non-stormwater discharges into and from their MS4s.

11           So we believe that, you know, over the  
12 next ten years that is an achievable requirement  
13 and achieving that requirement will meet the  
14 requirements of the TMDL. Now in contrast, without  
15 having a pathway to consider exceedance of those  
16 bacteria during wet weather flows, you know, the  
17 earlier versions of the in bacteria TMDL  
18 essentially requires the co-permittee to almost  
19 completely eliminate their wet weather discharges  
20 in order to meet the requirements of the TMDL  
21 within the receiving water.

22           Now, we know and understand that it's  
23 really is not that feasible to completely eliminate  
24 wet weather flows. Stormwater is stormwater, and  
25 it's going to flow everywhere. And we also know

1 that there -- there are in fact, natural sources  
2 that can cause exceedances of the water quality  
3 objectives in the basin plan. So before this TMDL  
4 actually was adopted, we made an amendment to the  
5 basin plan that would allow for the use of a  
6 reference system approach or a natural sources  
7 exclusion approach, which could be applied to  
8 bacteria and account for natural and background  
9 sources of bacteria which would then allow for some  
10 discharge of bacteria from the MS4s.

11 Now, in this case, we used a reference  
12 system approach. And the reference system approach  
13 allows for exceedances of the bacteria quality  
14 objective to occur based on the exceedances that  
15 are observed in a comparable reference system.  
16 Unfortunately, at that time and up to this point,  
17 we don't have any region-specific reference system  
18 that we -- we were able to use at that time or can  
19 use now.

20 For -- so for the bacteria TMDL at that  
21 time, we used a reference system that was developed  
22 and used up in the Los Angeles region, which is  
23 very similar in climate and I guess, topography  
24 and, you know, characteristics of San Diego. And,  
25 you know, and we use that as an initial exceedance

1 frequency or an initial set of exceedance frequency  
2 with the expectations that the co-permittees would  
3 develop the information necessary to amend the TMDL  
4 with region-specific information.

5           So you know, before we had this basin  
6 plan amendment that allowed for those reference  
7 system approach, our earliest drafts of the  
8 bacteria TMDL had a zero percent allowable  
9 exceedance frequency. That is -- your reaction is  
10 exactly the reaction of everyone else, I think.  
11 Which basically meant that the co-permittees would  
12 essentially have to eliminate all the wet weather  
13 flows. But with the amendment that we made to the  
14 basin plan amendment or to the basin plan by  
15 incorporating that reference system, the final  
16 bacteria TMDL, as they were incorporated in the  
17 basin plan, had a 22 percent allowable exceedance  
18 frequency during wet weather.

19           And, you know, before where you had,  
20 basically -- I believe it is up to a 99 percent  
21 reduction in bacteria loads in wet weather, this  
22 adjustment and this reference system basically  
23 changed that to they had to reduce the bacteria  
24 loads in wet weather to be 55 percent or less,  
25 depending on the watershed. So you know, reduction

1 of bacteria loads of 55 percent or less, instead of  
2 almost 99 percent in every case is definitely more  
3 achievable already than 99 percent.

4 Now, you have seen the answers from the  
5 co-permittees about whether it's feasible to  
6 achieve the requirements of the TMDL. They make a  
7 lot of assumptions and provide several examples,  
8 all of which support that assertion that it's not  
9 feasible, but we fundamentally disagree with their  
10 position that it's not feasible. In the last  
11 several years, we have seen that many beaches  
12 covered by these TMDLs are consistently receiving  
13 high marks such as A's and B's on beach report  
14 cards instead of, you know, the C's, D's, and F's  
15 they have been getting before.

16 The Orange County co-permittees in the  
17 last board meeting, you know, presented you some  
18 graphs that show they really achieved some  
19 significant load -- or bacteria concentration or  
20 really been able to reduce those bacteria  
21 concentrations to below water quality standards in  
22 a lot of cases. And also, during the last 303D  
23 listing cycles, several of the segments that were  
24 listed under this TMDL have been removed from the  
25 303D listing. So we know that improvements have

1 been and can be achieved. And much of this  
2 actually happened before the beaches and creeks  
3 bacteria TMDL were actually effective.

4           So now, keep in mind we're not actually  
5 requiring them to achieve these requirements, you  
6 know, next year or even within this permit term.  
7 They have been given up to 20 years to fully comply  
8 with the requirements of these TMDLs. Now, there  
9 are -- there are many BMTs that the co-permittees  
10 can implement to a greater extent than what they're  
11 doing now to achieve reductions in bacteria load  
12 for dry weather, and dry weather, as I mentioned  
13 before, elimination of dry weather flows, we  
14 believe is achievable and is a fundamental  
15 requirement of the permit.

16           But not only is, you know, eliminating  
17 these dry weather flows a fundamental requirement  
18 of the permit, it's also good for water  
19 conservation and some of our water supply issues  
20 we're dealing with. And we have made modifications  
21 to this permit to focus the co-permittees' efforts  
22 on eliminating those dry weather flows.

23           Now, for wet weather, a lot of bacteria  
24 load can be removed by improving or augmenting  
25 implementation of many of the programs that they're

1 already required to implement. The requirements  
2 for the development planning that you heard a lot  
3 about and with hydromodification and, you know, the  
4 requiring that we placed on the permit, encouraging  
5 retrofitting and stream rehabilitation, these can  
6 result in reduced volumes of stormwater that's  
7 being discharged, which also removes bacteria loads  
8 associated with those discharges.

9           You know, and in lot of cases, we have  
10 been told that bacteria loads are coming from pets  
11 or domesticated animal waste, which can also be  
12 removed from the co-permittees' systems through  
13 more targeted inspections, better education  
14 outreach, basically it's getting people to make  
15 sure they're not pooping out there with their dogs.  
16 And that is a technical term.

17           So we know that the co-permittees are  
18 actually capable of reducing bacteria loads, as  
19 they told us on many occasions and they've shown us  
20 through data and even though they have been able to  
21 achieve so much in the last five or ten years, for  
22 some reason they don't want to believe that they  
23 can, in fact, achieve these TMDLs. But we believe  
24 and they demonstrated to us on several occasions  
25 that if we allow them to, you know, innovate and

1 effectively and efficiently use their resources,  
2 which we believe this permit will now allow them to  
3 do even more, that they will be able to achieve  
4 their requirements of these TMDLs.

5                   Now, that doesn't get directly to your  
6 question, Mr. Abarbanel and I'm going to talk a  
7 little more about -- I forgot to move forward.  
8 Your question really falls under the WQBEL's  
9 question and how do you measure and how do you  
10 demonstrate that you're going to in compliance with  
11 the TMDL requirements.

12                   And so I'm going to first answer how we  
13 placed it into the permit to be consistent with the  
14 -- the -- how it's laid out on the basin plan. But  
15 I'll speak to how we can provide some additional  
16 options. So at this point, you've probably read  
17 some of what -- San Diego County co-permittees have  
18 stated about how they believe the WQBEL's should be  
19 expressed in the permit and essentially, the  
20 co-permittees would like to see the WQBEL's  
21 expressed in BMP base and not concentration based.  
22 But again, you know, we look to the basin plan for  
23 the answer and how things should go into the  
24 permit.

25                   Now, the beaches and creek bacteria

1 TMDLs were expressed in two ways, the TMDL  
2 themselves: They were expressed as either  
3 concentration based or mass-load based. Now, under  
4 the discussion of concentration TMDL the basin plan  
5 states and I quote, "Meeting the  
6 concentration-based TMDL in the receiving waters  
7 will be used to determine compliance with the  
8 TMDL."

9 Now the mass-load based TMDL discussion  
10 doesn't have any equivalent statement. But it does  
11 state the mass-loading numbers provide a tool for  
12 identifying bacteria sources that need to be  
13 controlled and existing bacteria loads that need to  
14 be reduced to meet the TMDL in the receiving  
15 waters.

16 Now, the TMDL are to be included in the  
17 Phase 1 MS4 permit. And the basin plan explicitly  
18 states that "The WQBEL's will likely consist of  
19 receiving water limitations, based on numeric  
20 targets," and the numeric targets consists of the  
21 water quality objective and allowable frequency,  
22 "and require implementation of a BMP program to  
23 achieve the TMDL receiving water." There's nothing  
24 in that statement that requires the WQBEL's to be  
25 expressed as BMP based WQBEL's. It only states

1 that the BMP program is going to be required to  
2 achieve it, and that is -- it was stated to  
3 basically say you're going to have to implement  
4 more BMPs to get the result that we're looking for  
5 these TMDLs.

6 Now, there was a major assumption that  
7 was placed within the basin plan. If the receiving  
8 water limitations based on the numeric targets are  
9 met in the receiving water, the assumption will be  
10 that the MP4s have met their waste load  
11 allocations. So that basically means if the  
12 receiving waters are meeting the water quality  
13 standards, then the MS4s are off the hook. They  
14 have done what they need to do. And so, you know,  
15 they met the water quality objectives and the  
16 allowable receiving frequency.

17 But then the question because what  
18 happens if the receiving water limitations aren't  
19 being met. So well, the basin plan also has an  
20 answer to that. If however, the receiving water  
21 limitations are not being met in the receiving  
22 waters, the Phase 1 MS4s will be responsible for  
23 reducing the bacteria loads and/or demonstrating  
24 the controllable discharges from the Phase 1 MS4s  
25 are not causing exceedances. The Phase 1 MS4s may

1 demonstrate that their discharges are not causing  
2 exceedances in the receiving water by providing  
3 data from the discharge points of the receiving  
4 waters, by providing data collected at  
5 jurisdictional boundary, and/or by using other  
6 methods accepted by the San Diego Water Board. So,  
7 you know, we're looking at what the basin plan was  
8 telling us, and you know, meeting the concentration  
9 based TMDLs in the receiving waters will be used to  
10 determine compliance.

11           And then the Phase 1 MS4s may  
12 demonstrate that they're not causing any  
13 exceedances by providing data from their discharge  
14 points to the receiving water. So it makes sense  
15 to use concentration-based WQBEL's because you  
16 know, concentration -- concentration-based TMDL,  
17 it's not being met there, then take a look at the  
18 discharge and see if they're meeting it there.  
19 Okay.           So we do realize that, you know, this  
20 kind of puts them in a difficult situation because  
21 you can't necessarily monitor every discharge point  
22 in order to determine that you're actually  
23 complying with the concentration-based WQBEL's.  
24 So, you know, we believe there's enough flexibility  
25 in the permit -- or in the basin plan language that

1 allows to us to explore some other options. So  
2 we're currently exploring those options which may  
3 allow us to incorporate a mass load based way to  
4 express the WQBEL's, maybe in terms of percent  
5 reductions. And then which can also be linked to a  
6 BMP program somehow that they could use to assure  
7 they will achieve those types of reductions, and  
8 then also have a way to monitor in order to  
9 demonstrate that they're, in fact, achieving those  
10 types of load reductions. And then go back.

11 So that is another possible option that  
12 we -- and if we can't develop such an option, we  
13 will put it into the permit requirement for this  
14 TMDL. So, you know, I believe that answers your  
15 question.

16 MR. ABARBANEL: It does, but it doesn't.  
17 And I don't mean to be confused. Implicit in your  
18 statements, all of which I understand and it was  
19 well explained, is the fact that we can in fact,  
20 either in mass loading or concentration  
21 measurements, determine what the bacteria count is  
22 with this selected subset of business of bacteria  
23 that might be there, that's fine.

24 MR. CHU: Right.

25 MR. ABARBANEL: The statement that I heard

1 from Mr. Roberts from the Board of Supervisors was  
2 that we scientifically could not do that and  
3 therefore, we should not be asked to do it. I  
4 don't know which is correct. I am inclined to go  
5 with you, but I don't have a reason to go with you  
6 or him.

7 MR. CHU: Okay. Let me -- let me finish up  
8 this portion of my answer and then I do touch upon  
9 that a little bit.

10 So I just want to get back to a  
11 statement that Mr. Gibson stated, the regional MS4  
12 permit is not a TMDL. It's a permit for the  
13 discharge of waste for the protection of water  
14 quality and it's supposed to be in accordance with  
15 the water quality standards and the basin plan.  
16 Now, the MS4 permit regional MS4 permit is  
17 implementing requirement of bacteria TMDL as they  
18 are described currently in the basin plan.

19 Now, many of the objections that you've  
20 heard from the co-permittees with the requirements  
21 really can't be changed in this permit, but they  
22 have to be changed in the basin plan before we can  
23 change it in the permit. Now, the -- you have  
24 heard a lot of statements that, you know, these  
25 bacteria TMDLs are not based on sound science, but

1 in fact, as part of the basin plan amendment  
2 process, especially for this type of a basin plan  
3 amendment. You know, we based at that time on the  
4 best available data and science and information at  
5 the time, the approach of the TMDL went through an  
6 external scientific peer review. It was actually a  
7 peer review by professors from UC Santa Barbara and  
8 UC Berkeley, and the peer reviewers found that the  
9 approach was -- was scientifically and technically  
10 sound.

11 Now, we also understand that there's  
12 always going to be new data and that new  
13 information -- that information and data can  
14 advance our understanding and can result in  
15 improved TMDL requirements. And we're not opposed  
16 to, you know, improving the TMDL. We're definitely  
17 not opposed to that. It's just not something we  
18 can actually do within this permit. You know,  
19 there is new scientific information that is being  
20 developed and information can, in fact, be used to  
21 modify the requirement of the permit and may, you  
22 know, be something that we want to explore further.

23 But, you know, it's really up to the  
24 co-permittees at this point to provide us the data  
25 information -- and information that would support

1 modification of the requirements of the basin plan  
2 TMDL. And then at that point, we could make  
3 changes to the permit requirements.

4 MR. ABARBANEL: Let me jump in here because  
5 I think this makes the nexus. I haven't seen the  
6 experts' opinions, but let me -- let us all for the  
7 moment accept that one can in fact make the  
8 measurements that implement or monitor the  
9 standards that are in the basin plan, which the MS4  
10 permit looks to to give the terms of the permit  
11 itself.

12 Then comes the question of how much  
13 does it cost to do that. And since in one of  
14 responses, I think it was from the co-permittees,  
15 the estimate was 500,000 to 96 billion dollars a  
16 year. That's only five orders of magnitude of  
17 error. It left me with the feeling that they have  
18 not the slightest idea what the cost is. I don't  
19 know. Okay. But those are the numbers that were  
20 written down on the page. I'm going to accept for  
21 the moment the fact measurements can be made so  
22 that we can determine the goals of the basin plan  
23 were met or not met. You have been issued a permit  
24 that says you must meet them. If we can agree on  
25 that, then the cost issue comes next.

1 MR. CHU: Right.

2 MR. ABARBANEL: How is that?

3 MR. MORALES: Actually, that helps answer  
4 one of my questions, and I wasn't certain whether  
5 the co-permittees were telling us that it couldn't  
6 be measured or they could measure it, but they  
7 would never be able to get to the levels of the  
8 TMDL. And what I'm hoping to get from both sides,  
9 because in this environment, I operate a little  
10 better with science and facts than faith -- we'll  
11 save faith for the weekend, so I don't want, you  
12 know, the co-permittees coming up and telling me,  
13 can't do it. Trust me, just like I wouldn't want  
14 our staff to stay yeah, I believe they can do it.  
15 What I was looking for was something more along the  
16 lines of I heard two things.

17 One, that if they reduce water flows,  
18 that will reduce the bacteria. If they reduce dog  
19 poop or pick it up, this will reduce the bacteria.  
20 It would for me be helpful if the discussion was  
21 more along those lines, you know, a reduction of  
22 water flow by 20 percent will have generally, you  
23 know, 15 percent reduction in bacteria. If we know  
24 how much, you know, dog feces is getting into the  
25 system, if we reduce that by 50 percent, that will

1 have a reduction of this magnitude.

2                   And at the end of the day, if someone  
3 can say look, here are possible steps. Not the  
4 universe of all the steps, but just some. And if  
5 you implement this, this, this and this, you're  
6 getting real close just by looking at these  
7 numbers. Now, on the other side, the  
8 co-permittees, I don't want to hear you guys tell  
9 me, I don't think it can be done so we don't want  
10 to try and don't make us, because it costs billions  
11 and billions and billions of dollars.

12                   Tell me why it can't be done. That's  
13 kind of the guidance that I'm looking for as a  
14 board member, rather than just having to say well,  
15 I've got one side it can be done, and another side  
16 telling me it can be done, you know. I don't work  
17 that way.

18                   MR. CHU: I think, you know, what you're  
19 both speaking about is the level of uncertainty  
20 that's involved with these TMDL, implementation of  
21 the TMDL, the cost associated with the  
22 implementing the TMDL and you are correct. I mean,  
23 there is intrinsically a lot of uncertainty both in  
24 when we developed the TMDL, you know, we didn't use  
25 region-specific information, but we do know that

1 the waters are impaired.

2                   That much, we know. We don't know how  
3 much it's going to cost, but we know it's going to  
4 cost more. That much, we know. The -- you know  
5 the ability to actually meet these requirements,  
6 you know, I believe it can be done. The  
7 co-permittees have actually all submitted, you  
8 know, as part of the TMDL requirements,  
9 comprehensive load reduction plans, which lays out  
10 what they believe it will take to actually meet the  
11 requirements of the TMDL. So I believe they think  
12 it can be done because they put together plans, but  
13 it's the cost associated with that and the level of  
14 effort that may have to be actually implemented  
15 that they're uncertain about.

16                   And so it's at that point, you know,  
17 they don't know 100 percent whether or not they  
18 will be able to comply. They don't know 100  
19 percent whether or not it will actually cost what  
20 they claim it will cost. In fact, they don't even  
21 know 100 percent whether or not they will have to  
22 implement everything they propose, so there is  
23 intrinsically a lot of uncertainty at this point.  
24 And part of this process requires there to be, you  
25 know, some additional studies, you know. It may

1 require some additional modifications of the basin  
2 plan -- amend part of the basin plan TMDL  
3 requirements, but you know, a lot of that does fall  
4 upon the co-permittees at this point to collect the  
5 data, provide it to us, so that we can make the  
6 changes. But what we have in the basin plan right  
7 now is to protect water quality so that it will  
8 support the beneficial uses that we all want to  
9 have, and this is especially important.  
10 Bacteria is something that really is associated  
11 with a fundamental reason why we all live in  
12 San Diego. We want to be able to enjoy our  
13 waterways, have our rec one water contact  
14 beneficial use, and if there's high bacteria, that  
15 limits our use. That limits that beneficial use.  
16 And the fact that, you know, every winter, every  
17 storm event basically requires a 72-hour moratorium  
18 on swimming means either that onem the bacteria  
19 annual loads are high enough that we can't enjoy  
20 the water; or that, you know, the co-permittees are  
21 -- don't want to implement anything and they're  
22 basically being precautionary in their approach and  
23 saying don't go in the water because we don't want  
24 you to get sick.

25 So, you know, I believe and I

1 fundamentally hope that we can achieve improvements  
2 in water quality, especially during wet weather  
3 because I think that's some of the best times for  
4 locals, especially to be able to enjoy our beaches  
5 and creeks because, you know, in the summertime  
6 we're overrun by tourists and, you know, I  
7 personally don't enjoy being in those big giant  
8 crowds. I love the beach in the wintertime.

9           But, you know, fundamentally, that was  
10 the original intent and goal of the TMDL. And  
11 we're just trying to move it forward, but  
12 fundamentally, we have to include the TMDL within  
13 this permit. It's the statutory requirement, you  
14 know, how it's laid out in the basin plan -- so it  
15 just needs time to evolve.

16           MR. ABARBANEL: My understanding, the TMDL  
17 in the stormwater. In other words, we didn't fully  
18 integrate the TMDL into this permit. We only took  
19 the numbers and those are enforceable immediately.

20           MR. CHU: That's not true. We have a  
21 section specifically about the WQBEL's and what  
22 they're supposed to be at the end of the compliance  
23 schedule. There's actually a section in there  
24 called Compliance Schedule by which the WQBEL's  
25 needs to be achieved. So we're actually going to

1 probably restructure the TMDL requirements to put  
2 those requirements a little closer to each other to  
3 make it a little clearer, by which dates WQBEL's  
4 may be achieved.

5           But, I mean, we did put everything in  
6 the TMDL into the permit. You know, like I said, I  
7 believe it's in there as intended. But, you know,  
8 I believe there is some room where we can make some  
9 changes to provide, like I said, some additional  
10 options in which they can demonstrate they are  
11 complying, not necessarily through only  
12 concentration-based measurements.

13           Now, I just want to mention that, you  
14 know, the co-permittees are actually right now in  
15 the middle of doing a special study for our region  
16 to determine, you know, region-specific allowable  
17 exceedance frequencies. You know, so hopefully  
18 once they have completed that study, they'll  
19 provide us that information. We can make the  
20 adjustments to the basin plan with that updated  
21 information.

22           And at that point, we can also make  
23 adjustments to this permit. It's much easier to  
24 make adjustments to the permit than it is the basin  
25 plan. The basin plan amendment process can take,

1 you know, upwards to a year or more to actually get  
2 that fully implemented into the basin plan.

3 So can I just finish up with the last  
4 question because it kind of gets to something we  
5 have been trying to do with -- with this permit to,  
6 you know, make the TMDL a little bit easier to work  
7 with. Because as you have -- you have probably  
8 seen now through this explanation, that working  
9 with the TMDL and modifying the TMDL is actually  
10 quite onerous and difficult.

11 So I'll speak to that a little bit and  
12 the answer to this question about the one size fits  
13 all approach. Now, this question was asked by  
14 Mr. Destache and I believe seconded by  
15 Mr. Abarbanel. Now, the answer to this question  
16 really depends on how you look at it. Now, is it  
17 one permit that applies to the entire region and  
18 applies to all the co-permittees? Well, yes. And  
19 in that sense, it is a one size fits all. But, you  
20 know, the difference here between this permit and  
21 the previous permit is that we have made  
22 significant changes to the requirement to letting  
23 each management area -- there's ten of them in the  
24 region that we have identified, and each  
25 co-permittees within each watershed management area

1 can customize their program to address the  
2 priorities that they have identified as their  
3 highest priority and that can have the greatest  
4 beneficial impact of water quality within that  
5 watershed management area.

6           You know, you heard about the one size  
7 fits all component to the requirement, you know.  
8 You heard about the hydromodification requirement  
9 that, you know, it's predevelopment for every site.  
10 You know, and there's jurisdictional components  
11 that every co-permittee has to have and implement  
12 within their jurisdiction and minimum control  
13 measures they have to implement and performance  
14 criteria associated with development planning, and  
15 that has to be implement by each co-permittee.

16           But we drafted the requirement of the  
17 permit to give them great flexibility in how they  
18 implement those requirements and fulfill those  
19 requirements. The hydromodification requirement,  
20 we, you know, those requirements aren't in all  
21 their current permits, but they're, you know, in  
22 very prescriptive manner. They do allow the waiver  
23 option which nobody has really tried to implement.  
24 So they basically, you know, decided they were  
25 going to try -- try to avoid having to do

1 hydromodification to the extent possible by having  
2 exemptions.

3           You know, fundamentally we're again,  
4 trying to go with this watershed approach.  
5 Everybody is part of the solution. Everybody who  
6 is part of the development is also part of the  
7 problem. And you know, we need to fix the  
8 watershed as a whole. Holistically, not parcel by  
9 parcel, not piece by piece or extreme reach by  
10 extreme reach. It is the entire watershed. So,  
11 you know, we -- we try to provide that flexibility,  
12 but the underlying requirement is that each  
13 co-permittee must implement programs that will  
14 result in water quality improvements within the  
15 context of a watershed management area; right? Not  
16 within a particular parcel or area or stream  
17 segment.

18           Now, in addition to that, a major  
19 concept we have been trying -- we tried to  
20 incorporate into improving water quality within the  
21 context of a watershed management area again is the  
22 integration of other programs and requirements.  
23 For example, the requirements of TMDL, you know.  
24 In the past, the expectations, there would be a  
25 separate plan and whole separate process for

1 implementing the TMDL, you know, maybe a  
2 development of a plan is part of this permit that  
3 would be implemented in a separate way. You know,  
4 and then there's also these special protections now  
5 for areas of significant or special biological  
6 ASBS. You know, that requires a plan as well.

7           Well, what we tried to do is  
8 incorporate those requirements into this permit and  
9 all of those can be folded into the one water  
10 quality improvement plan for the entire watershed  
11 management area. Now, we've also structured the  
12 requirements of the water quality improvement plan  
13 in a way that may allow this Board to utilize those  
14 plans to demonstrate that the priority of  
15 developing an additional TMDL can be reduced or  
16 even may not even be needed; right? Wouldn't that  
17 be great?

18           So you know, this -- so, you know, with  
19 these water quality improvement plans are trying to  
20 integrate the needs of the TMDL program as much as  
21 possible and the requirements of the permit so that  
22 the Board and the co-permittees have more  
23 flexibility in addressing impaired water bodies  
24 that are on this the 303D list and would allow us  
25 and the co-permittees to utilize our resources

1 toward implementing programs and BMPs that will  
2 actually address those impaired waters and improve  
3 water quality instead of diverting our limited  
4 resources toward developing TMDL, getting them into  
5 the basin plan, which in the end, is going to  
6 require us to implement those same programs and  
7 BMPs to improve the water quality that meets those  
8 standards but with much less flexibility. Because  
9 them we have the element of the basin plan that we  
10 have to deal with.

11           Now, furthermore, we're trying to allow  
12 the co-permittees to integrate additional  
13 water-related programs into the development and  
14 implementation of their water quality improvement  
15 plan. You're probably all aware of, you know, the  
16 work that's being done under the IRWM program, the  
17 Integrated Regional Water Management Program. They  
18 have done a lot of planning already, and they  
19 should be able to use those efforts and integrate  
20 that information into their, you know, water  
21 quality improvement planning efforts and then also  
22 be able to potentially leverage the resources that  
23 are being used towards those efforts to also  
24 improve water quality.

25           Now, we also want to encourage the

1 co-permittees to try to consider incorporating, you  
2 know, the planning for programs not just from the  
3 IRWM but pertaining to infrastructure upgrades,  
4 transportation, flood management, water supply  
5 augmentation, groundwater recharge and even flood  
6 -- plain management. You know, so now in a grand  
7 sense, we are trying to create a one size fits all,  
8 not just for improving water quality, but you know,  
9 looking at our watersheds holistically and trying  
10 to integrate everything that we need to manage  
11 within that watershed and make sure we're using,  
12 you know, our resources as efficiently and  
13 effectively as possible. And we honestly believe  
14 that by doing this, we will allow the co-permittees  
15 to identify, you know, not just one, but hopefully  
16 multiples, four or five potential uses of one  
17 dollar; right, that they spend for their programs  
18 to improve water quality or other programs, you  
19 know, and use that one dollar, you know, really  
20 well.

21           So, you know, that basically concludes  
22 my remarks and I can answer any additional  
23 questions you might have, but that is the goal  
24 we're trying to achieve here, to give everything a  
25 little more room to breathe. And I think TMDL

1 especially have really highlighted the fact that,  
2 you know, in lot of ways our hands are tied if we  
3 go down a certain path. But we have an opportunity  
4 here to, you know, do things differently and that  
5 really takes, you know, some change.

6           And it's going to require a lot of  
7 change on everybody's part, not just us, but the  
8 co-permittees, the other parts of the watershed,  
9 you know, everybody needs to be involved and be  
10 part of the solutions.

11           MR. STRAWN: Thank you. At this point, I  
12 think we're way behind schedule, but to the point  
13 we may not be able to get to the third topic, but I  
14 think we should continue to get this one done. We  
15 will ask for the various speaker cards that want to  
16 talk to TMDL and come forward, and I will ask that  
17 if you already have spoken on the other topics, you  
18 give somebody else a chance.

19           And if we have to shorten these up, we  
20 will. But as of right now, I want to make sure we  
21 get everybody. And also, do me a favor. If you  
22 hear somebody go before you that says basically the  
23 same thing you want to say, that's good. You can  
24 -- we will give your card back.

25           MS. KOLB: Good afternoon. My name is

1 Ruth Kolb. I'm with the City of San Diego and  
2 today I am representing the San Diego County  
3 co-permittees. And at our last meeting in November  
4 -- Wayne, can I have slide 12 of our presentation.

5 Thank you. Thank you.

6 One of the things we talked about was  
7 BMP based water quality -- WQBEL's is what they are  
8 called. What we were asking for is to match the  
9 language that was adopted in the TMDL. Okay. We  
10 want to facilitate innovation. We want  
11 watershed-based approaches. In fact, I want to  
12 thank Wayne and all of the staff for working with  
13 us on the water quality improvement plans. That  
14 strategy does give us flexibility to work together  
15 to try and figure out what exactly are the  
16 problems, like Lillian was talking about this  
17 morning to move forward and to try and correct the  
18 problems.

19 We're not sitting here saying we can't  
20 do it and we won't do it, but we need to be able to  
21 have some flexibility to move forward. And that's  
22 what the watershed-based approach does. In fact,  
23 according to EPA, there's a reasonable assurance  
24 modeling that is allowed. You model out the BMPs  
25 that gives us the best projected document

1 compliance with the projected pollutant load  
2 reductions and that's one of the things we're  
3 asking for, is to be able to go forward with this  
4 reasonable assurance modeling so that we can figure  
5 out what our challenges so we can move forward to  
6 better manage it.

7           You know, in managing it and having an  
8 idea of what to do we need to do actually helps us  
9 go forward to get funding. If I go forward and say  
10 I need to take a two million bacteria rate that  
11 goes consistent throughout a whole storm, down to  
12 104, but I have no idea how to do that, that's hard  
13 to get money for. And it's very difficult for  
14 everybody here to do that, but if I go forward and  
15 say I've done the modeling. We need to put in  
16 these BMP and I have specific costs associated with  
17 it, then I can take it to City Council and say we  
18 need to put in the BMPs. These are hot test areas.  
19 We need to move forward with those first. And that  
20 really helps.

21           You know, and that also allows you,  
22 like Wayne said, to do monitoring. You do your  
23 BMP-based assessment monitoring and you go forward  
24 and you can figure out what in the world you need  
25 to do, how well are you functioning, is the BMP

1 working properly. Like in Cal Trans up in L.A.,  
2 they were taking out the trash, they were  
3 increasing the bacteria loads. You got to think  
4 about these things. It's -- you know, there's all  
5 sorts of problems coming in from the sides.

6 Now, can I have my next slide. Let's  
7 see if I got this right. I need slide 13, which  
8 you have a hard copy of, specifically about the  
9 bacteria TMDL. I do have a couple comments. Thank  
10 you very much. And this has to do with a reopener.  
11 We really do need a reopener as we move forward on  
12 these BMPs. They may work faster; they may work  
13 slower. One of the things we need to think about,  
14 though with the reasonable assurance is, you know,  
15 we need the BMP-based compliance because we really  
16 don't know if we're going to be able to meet that.

17 Think about tech loading. We did four  
18 years worth of study in tech loading where we went  
19 out and we did all of the land use monitoring. We  
20 were sampling in dry weather. Dry weather is  
21 really easy compared to wet weather because wet  
22 weather is washing off the whole creek, all of the  
23 watershed, the routes, the trees, the -- even  
24 washing out the storm drains and all that bacteria  
25 is regrowing in the storm drains. It's washing off

1 the raccoons and the rats that live in the storm  
2 drain system. The skunks, the coyotes, yes, our  
3 cats and dogs too. But you got to understand, the  
4 standards that we're all held accountable to today  
5 are fecal indicator bacteria that comes from  
6 warm-blooded animals. Okay. It's not human versus  
7 nonhuman. Okay.

8           When we did the study in tech load, I  
9 actually did that. Out of 33 samples three times,  
10 we had one positive hit for human; okay? Almost  
11 all of it was coming from wildlife, the natural  
12 sources. Well, according to the symposium I went  
13 to at the end of November with EPA and all of the  
14 people that reviewed this TMDL, the risk from  
15 animals to humans is low. The risk to humans is  
16 from other humans.

17           So why are we doing anthropogenic  
18 versus nonanthropogenic? Or natural. The whole  
19 idea, the whole reason for the Rec 1 standard is  
20 the protection of human health, its risk. When we  
21 did the epidemiology study in Mission Bay, we  
22 exceeded bacteria standards every single weekend on  
23 the east side of the bay. But the fire samples, we  
24 had one hit at a place that never had exceedances;  
25 okay?

1                   So the question is what are we doing  
2 here? Well, I can tell you, the City of San Diego  
3 is moving forward in Tecolote. We're going to be  
4 doing a QRMA study that can be applied to the  
5 region and see what exactly is the risk to human  
6 health when in these creeks, and we've got EPA  
7 saying they're going to come on board. I need to  
8 talk to your staff. I haven't had a chance to talk  
9 to staff here, but we're moving forward. We're not  
10 sitting back and either are the co-permittees.  
11 They're doing beach reference studies; they're  
12 doing creek reference studies. We're not sitting  
13 back here waiting.

14                   And when you talk about the L.A.  
15 reference study that we used in the bacteria TMDL,  
16 the 22 percent was based on a tenth of an inch  
17 range. Our TMDL is on a two-tenths of an inch  
18 rainstorm. In fact, what is considered a dry  
19 weather day is a tenth of an inch of rain, which is  
20 kind of crazy because a tenth of an inch of rain  
21 washes off everything here. That is a fairly  
22 significant storm for us here.

23                   So anyway, looking at this, we  
24 definitely want to reopen here. We will need some  
25 interim milestones. Things may change. That's the

1 science. We're not sitting back waiting and just  
2 sitting on our haunches waiting for this. We're  
3 moving forward on science and we hope the interim  
4 milestones will help us.

5 We also need the BMP-based WQBEL's. If  
6 we can go forward and say we need to put one of  
7 these BMPs at these locations and this priority, it  
8 really does help to get funding from City Council.  
9 And also to the mass-loading base load allocations  
10 would be very helpful. And I thank you for your  
11 time.

12 MR. McSWEENEY: Okay. Ruth got one  
13 thing off my list. I'm Michael McSweeney, the  
14 senior public policy advisor for the Building  
15 Industry Association. My first point is why do you  
16 think all these people are in this room today?  
17 It's one four-letter word that begins with "F."  
18 You people. It's fear, and the permit is  
19 unbelievably complex. I would advocate it's  
20 unnecessarily complex. And give me just a second  
21 to explain.

22 Wayne many times said the co-permittees  
23 have to have this responsibility to come back.  
24 That's like what I'm hearing you say, and I have a  
25 hard time understanding you sometimes, is that

1 you're setting kind of like the fence line and then  
2 it got to fill in the landscape plan. Well, the  
3 problem with that approach is I think both this  
4 organization and the co-permittees are more  
5 process-driven than outcome-driven, and that's not  
6 meant necessarily as a personal critique. It's  
7 just -- it's what you do.

8                   And I think what we have missed over  
9 this whole thing and this is what I've been working  
10 with my new best friend, Jill Witkowski from  
11 Coastkeeper, is coming up with -- with outcome  
12 base. And too often things happen. They do their  
13 process, co-permittees do our process, then our  
14 guys go to do something and it's like oh, my. This  
15 is really complicated. This is really difficult to  
16 achieve and it's very expensive.

17                   And I think that when my -- my chairman  
18 came before you today, the thing is in the building  
19 industry we want clean water. We want the beaches  
20 open. We want all the same things that everyone  
21 here does. It's just that it seems we have been  
22 doing things now and the engineers in our industry  
23 tell me, Mike, we're just tired of doing dumb  
24 things that won't work or don't work. Or we get  
25 these miniscule little improvements where I would

1 say advocate, let my people go. Let them be free.  
2 Let's try and figure out a way to kind of take the  
3 handcuffs off and let the people that do  
4 outcomes-based things help you get to where you  
5 want to go.

6 Beach improvements over the last ten  
7 years are not necessarily because of the MS4 permit  
8 because --

9 MR. ABARBANEL: May I interrupt, please.  
10 If you think you can do it better, could you come  
11 back in February with a replacement tentative  
12 order, please, Mike?

13 MR. McSWEENEY: Really?

14 MR. ABARBANEL: Yes, sir. This Board is  
15 going to adopt an order. It doesn't necessarily  
16 have to come from the water board staff, although I  
17 expect it will.

18 MR. McSWEENEY: I know.

19 MR. ABARBANEL: Are you also standing here  
20 for your chairman who was here at 9 o'clock this  
21 morning to speak out of order on this agenda item?

22 MR. McSWEENEY: I'm not standing here on  
23 behalf of him.

24 MR. ABARBANEL: But since he's not here,  
25 can I convey a message? He basically came here and

1 he said, they don't do it this way in neighboring  
2 states. They do it worse. We would like you to  
3 adopt those practices.

4 MR. McSWEENEY: I don't think that what was  
5 his intent.

6 MR. ABARBANEL: That's what he said.

7 MR. McSWEENEY: I'll apologize for him.

8 MR. ABARBANEL: No, no. I don't want you  
9 to apologize for him. I want you to go tell him  
10 and to apologize for himself.

11 MR. McSWEENEY: Okay. And last but not  
12 least, I think that one of the things that Wayne  
13 said that I find frustrating and when I say  
14 frustrating, it's not because of Michael from the  
15 Building Association. It's Michael, the citizen of  
16 San Diego. Is that -- you know, science and  
17 technology can catch up over the next 20 years and  
18 I think that's a tremendous leap of faith.

19 And I think what we want to see and what  
20 I've been working for the year I've been here and  
21 in talking with Jill and the co-permittees is to  
22 try and use the brain power from each organization  
23 and harness that because there's some things that  
24 the folks in my industry do very well. There are  
25 some things the folks in the water board do very

1 well. There are things that the co-permittees do  
2 very well, and there's expertise from the  
3 environmental community.

4                   And I think that too often we talk over  
5 one another or we're broadcasting on the wrong  
6 frequency. And I think that the work that we have  
7 done and the process that the Board started this  
8 year has been hugely beneficial. I said this at  
9 the last meeting. We continue to meet with these  
10 folks and work, and I think that we can get there  
11 from here. It's just that the time pressure of the  
12 order coming down and the fear of the penalization  
13 is the thing that I think all of us, you know,  
14 feels like we have a gun to both sides of our  
15 heads.

16                   And we want to be part of the  
17 solutions, and I know that, you know, what my  
18 chairman said today maybe he -- I don't think he  
19 conveyed what he wanted to convey because I think  
20 you took it completely the wrong way, so I don't  
21 think we're --

22                   MR. ABARBANEL: That can well be. He also  
23 said that after all the expenditures over however  
24 many years, there was no improvements in water  
25 quality. Do you agree with him?

1           MR. McSWEENEY: I think there's been a  
2 minimal improvement in water quality from what  
3 we've done. I think the point he tried to make was  
4 the amount of money that we've spent doing project  
5 by project. If we would have been able to redirect  
6 those resources, to regional-based solutions, we  
7 would have had a better bang for the buck.

8           MR. MORALES: Okay. Well, I heard your  
9 chairman said this morning ten years, no increase  
10 in water quality and essentially what I heard was  
11 therefore, don't make us keep doing any work in the  
12 future or don't charge us for it. Now, that would  
13 work if, you know, this was a throw in the towel  
14 kind of board or, you know, a staff.

15           What it made me think was well, we've  
16 got to work even harder and it may require more  
17 resources if our objectives are not being met if  
18 it's just incremental improvement. So he may not  
19 have conveyed what he wanted to convey, at least to  
20 me because it made me think then we need more.

21           MR. MORALES: And just, you know, to --  
22 since you used an analogy, most people got set  
23 free. They had 40 years of hard work.

24           MR. McSWEENEY: Let me leave you with this  
25 one point. A week or so ago, I told Dennis Bowling

1 who spoke to you earlier and Jill, and another one  
2 of our members, we went down and he showed us what  
3 he had built over the last 20 years as far as  
4 trying to explain hydromodification and some of the  
5 benefits.

6                   And there was one channel that was the  
7 Telegraph Canyon or down in Pony Canyon where he  
8 built an engineered channel to where Jill had  
9 passed it by on bike before and didn't realize that  
10 that was a hydromodification thing, but right next  
11 to it they did additional mitigation of wetlands.  
12 But the thing is, between his, you know, engineered  
13 channel and that additional mitigation, there had  
14 to be a bump because you couldn't tie the two  
15 together because the way the rules are written.  
16 And those are the types of engineering solutions  
17 that are beneficial to the environment that allow  
18 them that, you know, that when there are dry  
19 weather throes, they can be bled through that  
20 wetland and cleaned up before they go downstream  
21 and out into the ocean.

22                   And I think frustration in our industry  
23 is, it's like we know we can build something. We  
24 know it can work, but we can't because the rules  
25 say we can't. So I guess what we would ask is how

1 can we get as much flexibility in there so that  
2 when we can come up with some solutions or some  
3 creativity or Jill comes up with an idea that says  
4 hey, do you think you're engineers. How can we get  
5 this done? But then we find out there are seven  
6 reasons why we can't because that's the way the  
7 rules are written.

8           So it's just, you know, again I don't  
9 think the guy tried to -- it was utterly failed at  
10 the point he was trying to make. The point is  
11 right now in our industry, if we build a house,  
12 it's anywhere between 4500 and \$25,000 added to the  
13 cost of the house to comply with the MS4 standards.  
14 And what happens is we clean, we detain, we release  
15 the water into a dirty system as opposed to if we  
16 would have been able to harness those resources and  
17 do something bigger for the environment that's  
18 already been built, because the problem isn't  
19 coming from the new developments. It's from the  
20 stuff that's been here for 100 years.

21           MR. MORALES: I would say if you and  
22 Ms. Witkowski are able to get your heads together  
23 and you build a better mousetrap, and you just say  
24 we can't use it because of the rules, if it turns  
25 it really is a better mousetrap, we'll find a way

1 to fix the rules to have it work. I just don't --  
2 historically, I haven't seen that done, so more  
3 power to you if you can do it.

4 MR. McSWEENEY: Okay. Jill, we got some  
5 work to do. Thank you.

6 MR. GIBSON: Mr. Chairman, if I could offer  
7 just a thought if nothing else for members of the  
8 audience to consider clarifying for all their  
9 comments. I thought that I heard earlier this  
10 afternoon the City of San Diego explaining to us  
11 that for legal reasons, they could not make certain  
12 requirements of parties doing redevelopment on  
13 off-site locations, ergo regional approaches may  
14 not be legal. Maybe I'm oversimplifying or cutting  
15 to the chase, but I just also heard from BIA that  
16 they think regional solutions are legal and the  
17 appropriate way to go.

18 Our point of view is that that is true,  
19 that we think it can be done that way. Alternative  
20 compliance for hydromod being one example. And we  
21 do think that whether a legal question that would  
22 be sorted by the co-permittees who understand the  
23 constraints upon them and would be able to provide  
24 an approach with the water quality improvement plan  
25 that would work, so I'm asking that question at

1 least rhetorically because I'm a little confused at  
2 this point, whether all the speakers are in  
3 agreement that off site can work or it can only be  
4 constrained to on site when we're looking at  
5 redevelopment or significant new development.

6 MR. STRAWN: Thank you for that. And I'm  
7 going to add something here. I'm a little  
8 disappointed, I guess, that we started this whole  
9 process with the idea that we were going to open it  
10 up and have a whole number of workshops and get  
11 everybody together to do exactly what you would  
12 recommend, that we could get the best people on  
13 each of the subject matters and put it all  
14 together. And yet just about routinely through  
15 this afternoon, we keep hearing that as if nobody  
16 had ever talked to each other before.

17 So you've been tasked with the idea of  
18 writing down that better -- that mousetrap, it -- I  
19 don't think it should have to be that way. I think  
20 it should have come out in the workshop, but if it  
21 hadn't, then that's -- that's a backup approach.  
22 Write it down and bring it in.

23 And specifically responding to  
24 Mr. Gibson's comments, the City or County wants to  
25 address that and my only comment to your boss is he

1 probably shouldn't come in and expect to talk out  
2 of order and make us happy and that -- his time is  
3 more important than ours. I'm sure he's getting  
4 paid a lot more than I am.

5 MR. McSWEENEY: Okay.

6 MR. KLEIS: Good afternoon. My name is  
7 Drew Kleis. I'm a program manager with the City of  
8 San Diego, and I just wanted to clarify Mr.  
9 Gibson's comment. I think our attorney is not here  
10 any longer to address it, but to clarify, I think  
11 what she is saying is we can't require off-site  
12 mitigation for mitigation that -- where there isn't  
13 a nexus to a particular project impact. Aside from  
14 that issue, if a TMDL requires attainment of  
15 certain water quality standards, addressing  
16 bacteria or what have you, and as part of our water  
17 quality improvement plan, slash, comprehensive load  
18 reduction plan, we identify some restoration  
19 opportunities and enhancement opportunities, and we  
20 find opportunities to pull grants or other  
21 partnerships proactively, reactively based on being  
22 approached by the building industry or something.  
23 Those possibilities are there.

24 I think what she was particularly  
25 addressing was the nexus issue and the being able

1 to require off-site mitigation.

2 MR. ABARBANEL: City of San Diego is one of  
3 the co-permittees; is that correct?

4 MR. KLEIS: That's correct.

5 MR. ABARBANEL: Among all other regions, do  
6 you agree with the statement that over the last  
7 decade there's not been any improvement in the  
8 water quality?

9 MR. KLEIS: I think there's other folks in  
10 the room who are more skilled in answering it than  
11 me, but the quick answer that I would say is no, I  
12 think the water quality has improved. And that  
13 bears fruit in the beach report card ratings, the  
14 reduced number of beach postings, et cetera. So  
15 yeah, we have a lot of metrics. It's a complicated  
16 question, but we have a lot of metrics to show that  
17 we're being effective.

18 MR. ABARBANEL: Okay.

19 MR. SUSILO: Good afternoon, Mr. Chair and  
20 members of the Board. My name is Ken Susilo and  
21 I'm a principal with Geosyntec Consultants. I'm a  
22 professional engineer, water recertified approach  
23 if you will, storm water quality. I was the  
24 project manager for the comprehensive load  
25 reduction plans for San Diego River watershed and

1 for the San Luis Rey watershed.

2 I would like to follow up on the  
3 comments made by Ruth Kolb, specifically the  
4 comment regarding BMP limits. And the context in  
5 which I want to offer my comments are as they  
6 relate to attainability of the standards as they're  
7 expressed, so I'm going to go in and go through a  
8 few slides here.

9 So as expressed, the bacteria standards  
10 are not consistently attainable. I want to take a  
11 step back and sort of walk through the whole suite  
12 of activities that would need to get -- that we  
13 looked at in order to try to make an assessment,  
14 and that includes looking at nonstructural  
15 stormwater controls, structural BMPs, the  
16 combination of both, and you know, a question about  
17 uncertainty came up earlier. And that's an  
18 important one, and I want to try to touch on that a  
19 little bit, kind of highlight why there is  
20 uncertainty about the long-term plan.

21 The first sort of line of defense we  
22 try to employ is the nonstructural controls. Those  
23 are typically the easiest to implement, lower cost,  
24 have a significant effectiveness, but that  
25 effectiveness is variable. There is also an

1 uncertainty that the loading that can be controlled  
2 by nonstructural type of BMPs and, again, there  
3 isn't a whole lot of data in terms of the state of  
4 the practice of what those loading -- there are  
5 some studies out there, and so what we did is  
6 pulled all the studies we had available and we  
7 tried to -- and we had local studies and we used  
8 those to the extent as possible.

9           One example, though, of nonstructural  
10 source controls and effective program happened in  
11 Santa Barbara which some of you know about --  
12 innovative way to identify where there were some  
13 weak source systems and different types of  
14 technologies. Conducting an effective source  
15 control program still resulted in noncompliance,  
16 but you know, that said, the whole suite of  
17 nonstructural types of BMPs were considered and  
18 then a short list was considered. And I'll  
19 probably give an example for the San Diego River  
20 watershed where we looked at an approach to address  
21 sanitary sewer leaks, source identification,  
22 homeless generated waste, and that would include  
23 law enforcement irrigation runoff. Pet waste came  
24 up in a question before. How do we get our arms  
25 around what the pet waste problem is? We have some

1 idea that the potential loading might be between 5  
2 and 15 percent, that the effectiveness of a pet  
3 waste program might be between 10 and 40 percent.  
4 Put those together, you know, you're in the 1  
5 percent range of total load reduction. So that is  
6 all part of the toolbox. And I want to put that  
7 all in.

8 All these nonstructural controls need  
9 to be sustainable and need to be ongoing. But  
10 that, sir, by nature, source control at upper end  
11 of a watershed of MS4 system, and we do see  
12 situations where within the storm drain, regrowth  
13 conditions. You have area natural sources, so  
14 that's part of the issue in terms of looking at  
15 nonstructural.

16 So the next approach is to look at  
17 structural BMPs, and these are a little bit more  
18 expensive and a little bit more involved. This is  
19 taken from the -- from a paper written by  
20 (inaudible) Consultants and Wright Water Engineers.  
21 We are the principal investigators for the EPA  
22 Federation ASCE stormwater BMP database. So this  
23 gives a sense as to how different types of BMPs are  
24 in that database perform with respect to the  
25 criteria we're talking about.

1                   So the red line you see there is  
2 standard and what you see within the blue dots, is  
3 the flood quality from the database, and the green  
4 box is affluent. So if you look at, for example,  
5 the first column, bioretention, you can see, we can  
6 touch that threshold but the vast majority of the  
7 effluent data that is presented in the database --  
8 and it's a pure view database, is above that  
9 standard. So it's difficult to attain these  
10 standards using technologies.

11                   There are other technologies that can  
12 be used, however. Infiltration is sort of a zero  
13 discharge and, again, this infiltration system which  
14 is the second group of data point performed and --  
15 equal possible to do this. But in wet weather  
16 conditions in particular, the volume of water that  
17 we're talking about is significant. If you think  
18 again, about a San Diego River watershed doing some  
19 rough calculations and sort of back to the envelope  
20 looking at a 22 percent annual -- frequency and  
21 doing some quick calculations, come up with a  
22 capture volume that we would need to address about  
23 2000 acre feet of water. And perspective, the --  
24 you know, a football field, NFL football with  
25 30-yard end zone is 1.3 acres, so we're talking

1 about over a football field with about 1500 feet of  
2 vertical storage.

3           So it's a significant amount so that we  
4 look at all kinds of options, and that doesn't take  
5 into account placement, so when we're talking about  
6 retrofitting situations, we actually have to fit it  
7 into the natural storm drain system. So there are  
8 some challenges and it makes things difficult to  
9 do, get reliable attainability. You know, they're  
10 having efforts to throw everything sort of kitchen  
11 sink at the situation. So one example -- and we  
12 talked about the bacteria workshop that happened a  
13 couple -- a few weeks ago. And the number of, you  
14 know, things were brought up with respect to  
15 pathogens.

16           One of the topics that came up was a  
17 case study of the City of Santa Monica basically  
18 throwing everything at a situation. There were  
19 some leaky sewers. There were some birds that they  
20 fenced them off and didn't allow birds to come in,  
21 didn't allow people to get in. Extensive trash  
22 control, covering all the trash cans from birds  
23 from even getting close. It's difficult to -- to  
24 reliably and regularly and consistently meet these  
25 standards.

1                   The other thing that we see is that  
2 there are some direct sources in the receiving  
3 water. So depending on how you do the compliance  
4 in the beach environment, you have natural sources  
5 like kelp -- we have regrowth again in enclosed  
6 system. And then there are actual human sources in  
7 those receiving waters we're trying to attack.

8                   The last thing I wanted to talk about  
9 was the discussion earlier about reference  
10 watersheds. And this is taken from the Leo  
11 Carrillo Arroyo Sequit watershed, which is north of  
12 Malibu. It's a different data set. It starts at  
13 2004 to 2011. So this is current evaluation. And  
14 what -- I guess the things to call your attention  
15 to are the black line, which is the wet weather,  
16 annual exceedance frequency and you can compare  
17 that to the sort of tannish line to the left, the  
18 wet weather single sample.

19                   You can see that 50 percent of the time  
20 our referenced watershed exceeds between 2 percent  
21 allowable frequency. This plot was built on the  
22 assumption that -- point one definition. When  
23 you go to point two as Ruth said from the City of  
24 San Diego, when you go to point two, we actually  
25 have six out of eight years of noncompliance from

1 reference watershed. That's for wet weather. The  
2 dry weather, which is the blue dash line on the  
3 bottom, you want to compare that to the light blue  
4 bars to the right. You see there's frequent, you  
5 know, exceedance. Those exceedances can be about  
6 88 percent of the time in dry weather.

7           So you know, the take-away that I would  
8 like to leave you with is of course there's a lot  
9 more information that goes to all these plots and  
10 I'd be happy to answer any questions, but the  
11 standards as currently written are difficult and  
12 the BMP-based approach then is something we can  
13 actually get to and it incorporates -- it allows  
14 some variability that are basically inherent in the  
15 solution to trying to solve the problem. Thank  
16 you. Questions?

17           MS. COWAN: Good afternoon. My name is  
18 Karen Cowan with Larry Walker Associates. I'm  
19 speaking today on behalf of the County of Orange.  
20 I'm mostly going to talk about the TMDL, but before  
21 I start, Chris Crom (phonetic) from the County  
22 asked me to note in response to the questions from  
23 the Board about dialogue and discussions with board  
24 staff, that the County workshops as well as  
25 providing a red-line strike-out version of the

1 administrative draft of the permit.

2           So on the TMDL question, pretty much  
3 want to speak on the concept of feasibility which  
4 was raised during November's workshop as well as  
5 the other question which we didn't talk too much  
6 about, but fundamentally why does compliance  
7 structure TMDL matter between a BMP-based  
8 compliance and the numeric affluent?

9           So starting with feasibility, I think  
10 the first thing we want to note is from the Orange  
11 County permittees' perspective, there is a  
12 significant distinction. We talk about feasibility  
13 versus what's in the TMDLs themselves and the basin  
14 plan amendments. What's feasible to achieve there  
15 versus how those TMDLs have been incorporated into  
16 the actual permits themselves.

17           From the permittees' perspective, the  
18 basin plan amendment are mass based. The waste  
19 load allocations are directly very clearly  
20 mass-based allocations, whereas the permit is  
21 concentration based affluent limit. As far as I'm  
22 aware, I believe that this is a unique approach in  
23 this region where the waste load allocations  
24 themselves are not actually incorporated into the  
25 permit, and I think it's fundamentally because what

1 happens there when you have a TMDL come to you and  
2 that basin plan amendment -- and as Wayne noted,  
3 it's a year-long process. There's an awful lot of  
4 analysis that goes into each of these TMDLs and the  
5 basin plan and incorporates a lot more than just  
6 than just a generic target. There's a lot of  
7 analysis that goes into different courses,  
8 different flows, different critical conditions. So  
9 if you don't know incorporate the waste allocation,  
10 you're essentially throwing out all of that basin  
11 planning amendment process.

12                   And another thing we have been talking  
13 about a little is what have permittees actually  
14 been doing. In terms of South Orange County, they  
15 have implemented about 37 projects which are listed  
16 on the handout that was handed out earlier. Since  
17 2003, which totals about 26 million dollars of  
18 investments and that's just for the construction of  
19 the BMPs themselves. This project has covered all  
20 sorts of different types of projects since it was  
21 constructed -- wetlands, dry weather flow  
22 reduction, channel restoration, as well as what  
23 could be termed the more high-tech solution such as  
24 pumping-multi step filtration and ozone ultraviolet  
25 radiation.

1           Those projects on an individual project  
2 basis have had a range of success. Some of them  
3 have been very successful on a project-by-project  
4 basis. According to Nancy Palmer some updated  
5 figures may have up to 99 percent reduction in mass  
6 as well as concentrations. But what's really  
7 important to understand is that even if you have  
8 that mass of 99 percent reduction, they're not  
9 capable of achieving 100 percent of the  
10 concentration limits all of time, which is what the  
11 standard is written into the permit at this time.

12           The next concept, I think it's  
13 important to think about what really is  
14 fundamentally important to incorporate a TMDL into  
15 the permit, and that -- they're properly  
16 incorporated based on what the basin plan amendment  
17 says, which could be a mass-based waste allocation,  
18 which fundamentally more feasible to achieve than  
19 concentration-based limits with no frequencies.  
20 This is noted for dry weather, not for wet weather.

21           And secondly, as other folks have  
22 talked about, the important that we reopen -- both  
23 the baby beach bacteria TMDL which kind of gets  
24 lost in the shuffle with all the beaches and creeks  
25 TMDL as well as beaches and creeks TMDL. But -- is

1 revisiting these TMDLs. So what we're asking for  
2 is to reopen. We understand the Board can reopen  
3 the permit for a basin plan at any time, but if the  
4 explicit reopener has been there, what it says,  
5 fundamentally the Board is saying we want to  
6 revisit the terms of this permit to make sure  
7 before these final requirement trigger that those  
8 TMDLs have been revisited, that updated information  
9 has gotten into the basin plan and then the permit  
10 has been modified accordingly.

11           Finally, to the concept of feasibility  
12 as well as why the method of compliance matters.  
13 If you have a BMP-based compliance approach, and  
14 you have this project that achieves something like  
15 the 99 percent reduction, would -- really great  
16 stuff in the right direction. The numeric -- you  
17 achieve 99 percent. Now, the 100 percent, your  
18 board doesn't have discretion and the permittees  
19 would be found out of compliance and potential  
20 subject to mandatory penalties.

21           If you have the BMP-based compliance  
22 route, that BMP-based compliance can be structured  
23 with high accountability with milestones and  
24 assurances that things will be achieved and  
25 permittees do not implement their plan, you can

1 find them ought of compliance. So if you take a  
2 city or county that does the 99 percent reduction,  
3 you can continue to hold them in compliance of  
4 their permit and work with them and give them more  
5 time and more resources.

6 As noted earlier, we can do anything  
7 with enough time and enough resources. But if you  
8 have a permittee that doesn't do anything, you  
9 still have an enforcement mechanism to enforce upon  
10 that permittee.

11 I'd also like to note there has been a  
12 lot of talk about the BMP-based compliant route as  
13 of late that it is a safe harbor. I think that we  
14 would as permittees, disagree with the fact that it  
15 would be a safe harbor, as I noted you can  
16 structure that compliance very concretely where you  
17 have those discrete milestones and discrete actions  
18 where you can truly hold permittees accountable.  
19 And I would also like to note that conversation was  
20 right after the adoption hearing in November, and  
21 members of Board as well as Board staff directly  
22 addressed that and said they do not believe that  
23 the watershed approach that we're talking about  
24 here is actually a safe harbor.

25 And then lastly, the concept again

1 bring it all back to feasibility, a numeric  
2 limitation -- EPA does have a member -- how to  
3 incorporate the MS4 measurement and I think  
4 sometimes what has been discussed as feasible is  
5 whether or not you can calculate a limit and I  
6 think that that's the wrong definition of feasible.  
7 The definition of feasible is what you all asked  
8 earlier, can you obtain it.

9                   So I think with the co-permittees  
10 there's a question, and I think Wayne talked about  
11 it as well, is the uncertainty. The BMP compliance  
12 approach does provide you all discretion. And I  
13 believe that will be all the comments I have.

14                   MS. ZAWASKI: I'm Lisa Zawaski, City of  
15 Dana Point. I have just one quick point that I  
16 wanted to make, and sample of another concern of  
17 the concentration based approach limits. We all  
18 talk that decreasing dry weather flows is a good  
19 management measure to help achieve the TMDL, but in  
20 doing so, back in -- that increase the  
21 concentration. So by doing the long-term  
22 management measure of reducing flows, we could be  
23 put ourselves in noncompliance with -- with the  
24 concentration by affluent limits, so I just wanted  
25 to use that example to make that point. Why

1 another concern. Thank you.

2 MR. STRAWN: Do you need a break?

3 THE REPORTER: No, I'm good.

4 MR. PADRES: Hello again. The thing I  
5 wanted to come up on -- actually not the TMDL, so  
6 before I started it's on the other topics that were  
7 also included in the staff presentation. I want to  
8 make sure that you're okay with me drifting on to  
9 that or if you just to address more TMDL stuff  
10 first.

11 MR. STRAWN: I see two more speakers to the  
12 TMDL. No? Any more TMDL comments? Then we will  
13 let you speak, but I'm going down to two minutes.

14 MR. PADRES: One quick thing. I'll do my  
15 best. Claudio Padres, Riverside County Flood  
16 Control. First I want to thank you guys for  
17 holding this workshop because I think these are  
18 really important issues if we really want to be  
19 serious about focusing outcomes, which I think  
20 everyone in the room does. It's important that we  
21 talk about these issues and resolve these issues so  
22 we can draft a permit that actually allows us to do  
23 that. Because I think that's a lot of fundamentals  
24 that underlying, a lot of what we're discussing  
25 today.

1                   In response to the one size fits all,  
2 again I mentioned earlier I would come back to  
3 that. Some of what the staff was discussing in  
4 response to that, I -- it didn't sound to me like  
5 it was directly answering questions, although I  
6 think that there was information in it. One thing  
7 I did hear in the staff presentation is that the  
8 permit is drafted to allow us to go beyond what the  
9 permit requires, and it says you have to do these  
10 things and we want you to go beyond the permit to  
11 address your priorities.

12                   The problem is that there are portions  
13 of the permit that don't allow us to do that or  
14 don't allow us to reallocate resources to those  
15 priorities. I heard from one of the board members  
16 -- I couldn't see because I didn't hear who said it  
17 -- that if we're not achieving the kind of  
18 improvement in water quality that we want to be  
19 seeing by now, that we may need to be doing more.

20                   Well, one thing I heard from staff  
21 early on in the original workshop is that they had  
22 to kick this off and that we don't necessarily need  
23 to be doing more; we need to be doing better. So  
24 we need to take what we're doing now and do it in a  
25 smarter way and make better use of those resources.

1 So rather than always going beyond the permit and  
2 trying to do more and more and more, we need to  
3 find ways that to be more efficient with what we've  
4 got.

5 So to that end, that's where I bring up  
6 one size fits all. We don't need to do one size  
7 fits all anymore; we need to use the water quality  
8 improvement plan and follow what it says, it says  
9 identify your priorities and identify the  
10 strategies that best identify -- wow, that was  
11 quick.

12 So hydromod is one area where that --  
13 where that comes into play where one size fits all.  
14 Two other areas that I wanted to bring to your  
15 attention are the retrofit and stream  
16 rehabilitation requirements. I will never argue  
17 that those are needed in certain circumstances to  
18 do retrofit or to do stream rehabilitation, but  
19 they aren't needed everywhere. There are streams  
20 that do not need a restoration plan. They are in  
21 decent condition already, but you have -- the  
22 permit would nevertheless require to develop those  
23 plans to make those restorations that are needed.

24 Another one is the -- and again,  
25 instead of allowing requirements to be tailored to

1 run off characteristics of a particular site, it  
2 says retain a predefined volume, even if under  
3 natural conditions that volume would have run off.  
4 So you have requirements that are actually in  
5 effect. Their own hydromodification by altering  
6 natural hydrology because retain a certain volume,  
7 even if like I said, that volume would have  
8 naturally gone up.

9           So these are three other areas of the  
10 permit that I think are still a one size fits all.  
11 They -- the good efforts that were started with the  
12 water quality improvement plan to identify the  
13 strategies that matter and focus resources on those  
14 are great, but there are still elements in the  
15 permit that keep us from doing that by saying do  
16 these other things anyway, even though in certain  
17 circumstances those might not be needed.

18 I guess what I'll leave with is in response to the  
19 question before is have there been improvements in  
20 water quality. I would say absolutely there have  
21 been, but we can do better. And I think that's  
22 what we all want to do, is we want to be able to  
23 take the resources we have and put them to the best  
24 possible use through that water quality improvement  
25 plan, bring together all the stakeholders, identify

1 what are the priorities, what are the strategies to  
2 address them, and put all our efforts on that so we  
3 can knock those things out.

4 So are there improvements? Yes, but we  
5 can do better. Thank you.

6 MS. SKORPANICH: I'm Mary Anne  
7 Skorpanich from the Orange County watersheds. I'll  
8 try to hit that right balance between not talking  
9 too fast but finishing up pretty quickly.

10 I would echo most of what Mr. Padre  
11 said from Riverside County and go a step further to  
12 say that we think that the flexibility that's  
13 intended in the permit is excellent. It's the  
14 right direction to go in. We think the water  
15 quality improvement plan is the right way to go  
16 about that. That does get us away from a one size  
17 fits all approach, but that's just Provision B.  
18 The permit and most of the other provisions of the  
19 permit, it -- it falls back to that old style of  
20 sort of the one size fits all and being very  
21 prescriptive about programs. I would say both an  
22 existing development program, the  
23 hydromodification, maybe even the new development  
24 sections could all benefit from the water quality  
25 improvement plan being the center structurally of

1 the permit.

2                   And so that you figure out what your  
3 priorities are, what are the good resources that  
4 you want to continue to protect and figure out what  
5 that hydromodification should be in that watershed.  
6 That would be really the kind of flexibility and  
7 room for innovation that your staff has tried to  
8 achieve with this draft. So I would really  
9 encourage structurally -- we introduced this notion  
10 at one of the earlier workshops is to change that  
11 whole structure and really make it the central  
12 focus of the whole overall program.

13                   And then I wanted to just make one  
14 other comment generally since we're in kind of a  
15 miscellaneous category here, is that I -- I would  
16 like to remind the Board and remind the board staff  
17 as well that receiving waters have problems but  
18 they're not all necessarily caused by or is the  
19 responsibility of the MS4s. We hear about when it  
20 rains and there's a lot of bacteria at the beach,  
21 that doesn't mean that it's just the MS4s who need  
22 to be responsible for fixing that program. We  
23 certainly have a role, we have a big role, but  
24 there's a lot of other discharges out there in each  
25 one of these watersheds and should be part of

1 solutions as well. Thank you.

2 MS. LACARRA: Chairman and board  
3 members, good afternoon. My name is Rosanna  
4 Lacarra. I'm representing the San Diego  
5 co-permittees. I want to talk about the  
6 non-stormwater discharges which was the first item  
7 that Wayne addressed this afternoon. The new  
8 language in the permit classifies numerous  
9 groundwater discharges to be MS4 as illegal  
10 discharges. Even if no contamination of pollutants  
11 is present, and that lies to contaminated pump  
12 groundwater and as he mentioned, foundation drains  
13 and footings drains.

14 In contrast, the 2007 permit language,  
15 which is in Provision B of order R920007-0001,  
16 allowed the co-permittees and the regional board to  
17 either prohibit a discharge category or develop the  
18 implementation of an appropriate control measures  
19 to reduce the discharge of pollutant to the MEP.  
20 If it identified the discharge as a significant  
21 source of pollutants, we think this is a more  
22 appropriate approach. Otherwise, it will be really  
23 difficult, as Mr. Morales tried to clarify how do  
24 we distinguish these types of discharges.

25 It goes back to whether it's a source

1 of pollutant and not necessarily where the pipe is  
2 located from where this is being discharged.  
3 That's going to be really difficult for all the  
4 co-permittees to discern from every little weak  
5 hold or discharge from these groundwater discharge  
6 foot drain areas. So we recommend a clearer  
7 language, preferably from the 2007 permit. The  
8 existing language which would allow us to determine  
9 which discharges need provision, and we can  
10 incorporate actually this and roll it into our  
11 WQIPs which would be a better way to address it.  
12 If the problem is in the watershed from these  
13 footings and other types of groundwater discharges,  
14 then we can make it a source of pollution and go  
15 about it that way as opposed to making it a one  
16 size fits all for the entire region. Thank you.

17 MR. EVANS: Good afternoon. I'm Bryn  
18 Evans. I'm representing Industrial Environment  
19 Association. IEA was formed in 1983 and promotes  
20 responsible cost-effective environmental laws and  
21 regulations. They facilitate environmental  
22 compliance among the members and provide education  
23 for the community at large.

24 And I got a couple technical issues to  
25 discuss with you. Going back to the one size fits

1 all approach, with respect to the monitoring  
2 framework within the permit, IEA generally supports  
3 the monitoring approach that's strategic,  
4 question-driven and cost effective. We recognize  
5 that there is more work to be done in that regard,  
6 and the co-permittees are working with the regional  
7 board staff and others to make sure that the  
8 monitoring approach that ultimately gets  
9 incorporated into this permit is both  
10 cost-effective and effective.

11           Second key point goes to the  
12 non-stormwater discharges. And this was a key  
13 point that was made during the focus workshop  
14 process. IEA supports the clarifying language that  
15 the regional board staff incorporated that  
16 clarifies that MPD -- permitted discharges are not  
17 illicit, are not prohibited under the permit, but  
18 thank you for that.

19           But another point to be made is that  
20 firefighting discharges, nonemergency firefighting  
21 discharges are currently considered illicit  
22 discharges in the permit. There is building fires  
23 suppression maintenance specifically has been and  
24 can be treated with BMPs such that they're not a  
25 significant source of pollutants, so we recommend

1 -- IEA recommends retaining the existing  
2 authorization when co-permittees require the use of  
3 appropriate BMPs.

4                   And then finally, I hesitate to bring  
5 this back up, but I didn't come up at the time  
6 hydromodification portion for fear of talking out  
7 of turn. The hydromodification requirements, IEA  
8 is a little disappointed to some extent that the  
9 recently-approved HMP permitting process. As we  
10 heard earlier, the HMP was painstakingly developed  
11 at great costs by the co-permittees several years  
12 ago and hasn't been fully evaluated.

13                   So at a minimum, IEA recommends that  
14 the exemptions return for the highly urban  
15 watershed discharges to concrete line channels and  
16 abatement group, and also has some deep concern  
17 that the alternative compliance strategies are  
18 neither logistically or economically feasible.  
19 With that, I have made my comments. Thank you.

20                   MR. STRAWN: Questions? Comments? It's my  
21 inclination it's too late to start cost. It's  
22 going to be another hour. Staff presentation.

23                   MR. GIBSON: That's the inclination that I  
24 hope the whole Board would consider. The  
25 alternative is we would have to continue this, set

1 those issues aside. That would be your discretion.

2 MR. STRAWN: I understand. And at least  
3 one other board members expressed a concern at 5  
4 o'clock was -- was kind of an issue. I'm more  
5 than willing to go forward to that time, but not if  
6 we're going to start off on another hour-long  
7 briefing.

8 MR. CHU: We -- Lori Walsh will be  
9 doing the presentation on the cost questions and at  
10 least during our practice, it only took about ten  
11 minutes. Unless you have a lot of questions in  
12 between, so it should take less than 15 minutes.

13 MR. ABARBANEL: No pressure at all.

14 MS. WALSH: I'd like to do it, usually  
15 third batter is the pressure issue.

16 My name is Lori Walsh, an engineer on  
17 your staff, and I prepared the responses to the  
18 cost questions. The co-permittees are here also in  
19 case you have any detail questions because they're  
20 concerning current expenditures and estimated  
21 future cost of economic income. I took a summary  
22 research review of the existing documents that are  
23 out there, plus some studies to go ahead and put  
24 together the numbers for you today.

25 We're going to start with question

1 number 3. This was made by Board Member Morales,  
2 asking about what the co-permittees already spent,  
3 what they already spent and breakdown of costs and  
4 time frame. To do that, I put together the table  
5 that you have in supporting Document 6. It shows  
6 you what the San Diego County co-permittees spend,  
7 the Orange County co-permittees spend each year to  
8 run their stormwater program. It's upwards of 165  
9 million dollars. It does not include Riverside  
10 County, which we don't have their annual report  
11 yet. We should get that October of this year. You  
12 can see all those numbers there. That's why I did  
13 that. Okay.

14 MR. ABARBANEL: Twenty years ago, just a  
15 guess, how much did this same group that  
16 municipalities and so forth, spend?

17 MS. WALSH: Twenty years ago?

18 MR. ABARBANEL: Just picking a number --

19 MS. WALSH: Yeah, we didn't have the  
20 stormwater permit then, so obviously zero. But  
21 they might argue with me.

22 MR. ABARBANEL: Do you think that spending  
23 this money has improved water quality in the Region  
24 9?

25 MS. WALSH: I believe it has, but I believe

1 we have more to go.

2 MR. ABARBANEL: I didn't say we were  
3 finished. I want to whether --

4 MS. WALSH: I do think we have made  
5 improvement in water quality.

6 MR. ABARBANEL: Mr. Roberts came before us  
7 last month. He was appalled that we might have to  
8 spend two billion dollars over 20 years. This is  
9 3.3 billion dollars over 20 years, and guess what?  
10 It's happening.

11 MS. WALSH: Okay. So Mr. Abarbanel, you  
12 made that comment about the two to four billion  
13 dollars over 20 years and putting some context --  
14 I would like to put some context into those numbers  
15 first and then we'll -- I'll let you know what they  
16 spend it on, what they estimate they're going to  
17 spend it on. So two to four billion dollars is an  
18 estimated cost of compliance with the cost of the  
19 beaches and creeks TMDL that you have heard about  
20 all day today, and it would be paid for by the  
21 effective co-permittees in those watersheds.

22 And I put together a table, that's  
23 supporting Document 7 that outlines those numbers.  
24 I pulled those numbers from their comprehensive  
25 load reduction plans that the co-permittees

1 submitted to me. That's exactly where those  
2 numbers came from. And it does list what they're  
3 going to spend it on and you heard best what they  
4 would spend on it on from Ken from Geosyntec. He  
5 gave you the most context about the regional  
6 structural BMP is distributed BMPs and  
7 nonstructural BMPs. And he gave you examples for  
8 those. So that's what these dollars would be spent  
9 on.

10                   The co-permittees also provided you  
11 supporting Document 8. It's a letter. Their range  
12 for bacteria TMDL cost, between 144- to 272 million  
13 dollars per year. They did the math. They divided  
14 that 200 by 20 years. Their numbers are a little  
15 different than mine. I come up with 130 million,  
16 2.5, but we won't split millions of dollars. And  
17 I'm sure they can tell you what the difference in  
18 those numbers are because I'm not sure what they  
19 are.

20                   What I want to -- I'm going to make two  
21 notes. In the comprehensive load reduction plan,  
22 there was a particular paragraph that gave some  
23 context to the estimates and the -- and the  
24 integrity -- well, not the integrity, but the  
25 precision of those numbers. I always get that

1 screwed up with accuracy. So in the comprehensive  
2 load reduction plan, it states that, "Cost opinions  
3 are presented as an aide for decision makers and  
4 contain considerable uncertainties, given the  
5 interested and adaptive nature of the  
6 implementation plan and the many variables  
7 associated with the projects and programs, the  
8 budget forecast, especially for later phases on  
9 order of magnitude estimates."

10                   They are in order of magnitude  
11 estimates, so the -- I'll use their document. The  
12 144- to 272 million dollars a year are on order of  
13 magnitude estimates, so that range is like between  
14 14.4 million on the low end and 1.4 billion on the  
15 high end. That's an enormous stretch between those  
16 two and are subject to change based on BMP  
17 effectiveness and assessment.

18                   And really, Ken was talking to this  
19 about when they're out in there 15, 16, 17 year 20,  
20 they really don't know where they're going to be  
21 out there and what the BMPs are going to look like.  
22 That's why those numbers, that range is so wide.  
23 And briefly again, when they bring up this range of  
24 costs for compliance with the TMDL, during our  
25 permit process, it's really the wrong venue to do

1 that because these ranges of costs were considered  
2 at the time that the TMDL was adopted. And the  
3 Board at that time considered cost in determining  
4 the TMDL.

5 Our last question was asked by Henry,  
6 and Mr. Abarbanel is very good at asking the "not"  
7 question. So we did it for "not" implementing.  
8 What does it cost if we're not implementing the  
9 provisions of the permit. And you gave a couple of  
10 examples. It was particular to beach closures and  
11 it'll help, so I'll address those. And then I have  
12 a couple of other points after that. Make sure.

13 Cost of not implementing provisions of  
14 our order are also very significant. And in other  
15 words, it's basically what the economic impact, the  
16 not placing these controls on pollutants that make  
17 their way down in receiving waters during dry  
18 weather and wet weather. You've heard the talk  
19 about the bacteria TMDL and the requirements.  
20 California had in 2011 experienced 5,794 beach  
21 closings and advisories and there was a steady -- a  
22 study in 2006. Ran a hypothetical for Huntington  
23 Beach, if it was closed due to poor water quality,  
24 the losses in beach-related spending would be on  
25 the order of \$100,000 for one day, 3.5 million for

1 the month and nine million dollars if the beach was  
2 closed for three months during a summer season.

3           So the dollars are extremely high, and  
4 we all know how we like to enjoy our beaches here  
5 in Southern California. And this is just an  
6 example of one beach. If you apply this example to  
7 all the beaches in San Diego, the economic impact  
8 is just considerable.

9           So we're going to move on to tourism.  
10 San Diego receives 31 million visitors a year and  
11 our tourism industry employs more than 160,000 San  
12 Diegans, and those visitors that come to San Diego  
13 like to spend money. They spend 7.5 billion  
14 dollars a year in San Diego. And recently -- as  
15 recently as a couple of weeks ago, December 1st --  
16 ten days ago, there was an article in the San Diego  
17 Union Tribune that states that there's airliners  
18 now that can fly direct from Japan and London, and  
19 the article states that it translates to more than  
20 240,000 paying passengers since June of 2011. And  
21 an estimated financial bonanza to the San Diego  
22 region of 111 million dollars. So there's more and  
23 more people going to come to our beautiful  
24 San Diego and experience our Rec 1 beneficial uses  
25 and all the other fun stuff that we have here.

1                   And illness was another example that  
2 Mr. Abarbanel asked. And there was a specific  
3 study to the LA County and Orange County and it's  
4 stated that it costs in excess of up to 100 -- up  
5 to 51 million dollars per year to deal with the  
6 gastrointestinal illnesses that people have  
7 resulting from swimming in bacteria-contaminated  
8 beach water, so it's directly relatable to the  
9 bacteria TMDL we have been talking about all day.

10                   And if those costs can increase to up  
11 176 million dollars per year, if you factor in the  
12 non-market costs which are defined in the study as  
13 the willingness to pay not to get sick, so that is  
14 a whole lot of airborne and echinacea.

15                   Not only -- I wanted to add two more  
16 factors, just to put into perspective in addition  
17 to the tourism and the illness, is that I found  
18 some additional numbers from the Army Corps of  
19 Engineers and a study that was done from one of the  
20 insurance agencies. It's not a company. It was --  
21 actually, I -- I'm forgetting the exact one now,  
22 but one of the governing agency's for the insurance  
23 body that stated between 100 and 300 million  
24 dollars a year was paid out in insurance claims as  
25 a result of flooding, which is directly related to

1 our hydromodification provision.

2                   And that was particular to San Diego  
3 County. It's very difficult to find  
4 County-specific numbers, so I wanted to make  
5 mention of that. And it was also that the Army --  
6 excuse me -- yeah, Army Corps of Engineers spends  
7 -- spent I think last year, 180 million dollars  
8 nationally to dredge areas of polluted fill that  
9 came down from -- that were either impacted from a  
10 pollution source or due to runoff and depositing  
11 into our receiving water bodies.

12                   And the Fish and Wildlife Service,  
13 Mr. Strawn said that 38 billion dollars a year  
14 nationally is spent -- is the impact that would  
15 be associated with harm to sports fishing, so the  
16 numbers are enormous. And if I actually had to add  
17 them all up, I don't even know if we have a unit to  
18 describe what that dollar amount would be, but I  
19 certainly do think it justifies the Clean Water  
20 Act's requirements to remove pollutants and  
21 stormwater to maximum extent practicable and to  
22 eliminate nature non-stormwater discharge. So I'm  
23 going to leave you with that. I can take questions  
24 and co-permittees are here, too.

25                   MR. STRAWN: Some comments on cost from --

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1           MR. MORALES: Before you all come up to  
2 talk about costs, I just want to say one thing.  
3 Please, for my benefit, don't repeat what we heard  
4 in November that it's going to cost two to four  
5 billion over 20 years because you know you all are  
6 spending that anyway. So I'll take it as a given  
7 that I understand you don't want to spend any  
8 money.

9           MR. SNYDER: My name is Todd Snyder  
10 with the San Diego County speaking for the  
11 co-permittees of San Diego County. First of all,  
12 beaches are valuable. We absolutely agree that  
13 they bring in tourism dollars and there are costs  
14 associated with people getting sick when they do  
15 get sick.

16           However, I think a lot of data you just  
17 saw is not specific to the question that was asked.  
18 The question that was asked was what are the costs  
19 of not implementing the permit, in particular, the  
20 bacteria TMDL. There has been no study that has  
21 been done on that. I think a lot of the figures  
22 you just saw are statewide, California-wide data.  
23 You can't compare that to local implementation  
24 costs. Beach tourism, as we know, is not water  
25 quality. There's lots of things that draw people

1 to San Diego.

2                   And you know, looking at closure days,  
3 we don't close our beaches after rain events. We  
4 issue advisories. So all of these numbers have to  
5 be taken into context and if a study were to be  
6 done on what the economic benefits of implementing  
7 bacteria TMDL are, it has to take into account  
8 what's already being done, what's been done in the  
9 past. So we agree with the regional board staff  
10 estimate that San Diego County co-permittees spend  
11 about 119 million dollars per year. We think water  
12 quality absolutely has improved. If you look at  
13 that number over the last five years during summer  
14 dry and winter dry weather, our -- we have over 90  
15 percent of beaches with A grades.

16                   Unfortunately A grades don't get you in  
17 compliance with the TDML. So that's part of the  
18 problem in using those numbers. Looking at the  
19 current program costs, as a whole, the 21 San Diego  
20 County co-permittees spend about 119 million per  
21 year. Here's an example of how the costs break  
22 down for one of our co-permittees, City of  
23 San Diego. They spend about 54 million per year.

24                   And I think the point that we want to  
25 make on costs is that there was some confusion of

1 the November 13th hearing. Our estimate is about  
2 2.6 to 4.9 billion dollars over 20 years. Those  
3 are additional incremental costs to what we're  
4 spending now, and we do have some more detail that  
5 I would like Ken Susilo from Geosyntec to provide  
6 because his firm developed a lot of the detail cost  
7 estimates for our plans.

8 MR. SUSILO: Ken Susilo, Geosyntec. I  
9 want to add a little bit more to this discussion, a  
10 little bit more detail about how these costs were  
11 developed. In a broad sense, we have had basic  
12 families of nonstructural and structural and some  
13 special studies costs and the order -- the  
14 estimates we came up were about 11 percent for  
15 nonstructural BMPs, and these nonstructural BMPs, I  
16 touched on a little bit earlier. Sanitary sewer  
17 leaks, source identification, homeless generated  
18 waste, watershed irrigation runoff, pet waste,  
19 looking at commercial industrial targets, LID  
20 incentives, street sweeping, enhancing street  
21 sweeping on site, wastewater treatment systems,  
22 those types of things go to the nonstructural  
23 bucket.

24 When we look at structural BMPs, I want  
25 to give you some examples from the San Diego River

1 watershed clerk that was discussed earlier. For  
2 that example, again, nonstructural program, but  
3 nine regional BMP projects, these are the larger  
4 scale ones. 247 catchment areas that would have  
5 distributed BMP retrofit requirement that would be  
6 like Green Streets or smaller scale types of  
7 implementation.

8           Three restoration projects. We talked  
9 about channel restoration earlier. Those are  
10 included in these estimates as well. And one of  
11 the reasons there is some uncertainty is, in  
12 looking at what our targets are, we would  
13 anticipate there's a possibility of private  
14 property acquisition, so that's also included in  
15 the uncertainty and some costs as we look at  
16 structural BMP, as well as dry weather diversion  
17 system.

18           I just wanted to share some of those  
19 breakdowns in terms of what the costs were. The  
20 costs are additive. They're based on robust BMP  
21 modeling, so technical water quality monitoring --  
22 and how does it correspond as a target. The  
23 important thing to emphasize here is that we --  
24 it's based on managing loads, so of a different  
25 types we talked about flexibility. This is a

1 load-based assessment here and load-based cost  
2 estimate.

3           If we go to concentrations, those cost  
4 estimates go up, and just for context, some of the  
5 other estimates that we're presenting here are  
6 within the range of what regional board has  
7 presented. I think in their estimates for  
8 structural BMP only for watershed was 500,000 to  
9 7.3 billion dollars, so this is, you know, a much  
10 tighter -- well, better define "range,"  
11 but there is still some uncertainty there and  
12 that's reflected in these estimates.

13           MR. MORALES: Obviously, check with your  
14 clients, but I appreciate the explanation that this  
15 is additive, but to the extent possible if you have  
16 a cost estimate with any summaries of the takeoffs  
17 that you used or that you developed to arrive at  
18 these figures, if that could be made available to  
19 us, that I would appreciate just looking at that  
20 information because like I said earlier, this is  
21 not the Internet, but I'd like to see those  
22 numbers.

23           MR. SUSILO: I believe a lot of that is in  
24 the clerk's, but --

25           MR. MORALES: Specifically it sounds to me

1 like you came up with a cost estimate for how you  
2 perceived the implementation of the MS4  
3 requirements will add up at the end of day. And to  
4 have -- knowing that, I will have broken it down  
5 into categories and very likely line items that  
6 come up with general numbers.

7 MR. SUSILO: Just so we're clear,  
8 there's more detail on the larger regional types of  
9 projects. One of the reasons why I framed the  
10 distributed BMP in the context of catchment areas  
11 is that we had to take typicals and come up with  
12 some typical costs and those were replicated. So  
13 there's a little bit of difference in terms of  
14 structural BMP implementation, but for the regional  
15 ones specific sites were identified and conceptual  
16 level concepts of what those projects would be, and  
17 then the cost breakdown for those estimates were  
18 provided. Questions? Thank you.

19 MS. SKORPANICH: Good afternoon.  
20 Again, Mary Anne Skorpanich on behalf of the County  
21 of Orange. I wanted to do two things, one of which  
22 was to add a little context to some of the numbers  
23 that Ms. Walsh presented. She showed a study that  
24 was done for Huntington Beach, estimating what the  
25 cost would be if the beach were closed. But I will

171

1 point out that the beaches are only closed when  
2 there is sewage, and so we're not talking about  
3 your typical, you know, dry weather runoff or even  
4 stormwater runoff. We're talking about sewage.  
5 And certainly a closure is when the public is  
6 prohibited from going in the water at all, even  
7 into the ankle.

8                 So just to put that in context, it  
9 might cost a lot for a closure, but we're not going  
10 to prevent closures by anything in the (inaudible).

11                 Secondly, I will point out that to your  
12 comment earlier when the board members were saying  
13 well, what were we spending 20 years ago.

14 San Diego and certainly Orange County were enjoying  
15 abundant tourism and abundant tourist dollars  
16 coming into our local economy. More than 20 years  
17 before we had the MPDS program, and so we can't say  
18 it's going to cost, you know, all that revenue that  
19 comes in from tourism, all those jobs if we ratchet  
20 up or down certain requirements in the MPDS permit.  
21 I think we certainly see the public respond to nice  
22 beaches and good water quality, but it certainly  
23 has not ever kept tourism away from this area.

24                 Thirdly, to the point on flood control  
25 that Ms. Walsh made, our flood control engineers

1 are actually concerned about the hydromodification  
2 requirements because they would change the  
3 discharge from these BMPs and you would see water  
4 flowing much longer after a storm than you would  
5 even from the undeveloped conditions.

6           If you think about a site that's  
7 developed and it's draining through a drinking  
8 straw, relatively speaking, it's going to be very  
9 slow when it's draining out of there and it's  
10 draining much longer. So we actually have a flood  
11 control concern on the other side.

12           The 2.4 billion dollar number that  
13 San Diego came up with was just for the bacteria  
14 TMDL, so we're talking about doubling the cost that  
15 we currently have, the current rate of spending,  
16 that all of the -- all of permittees are spending  
17 on the overall MPDS program, so I also wanted to  
18 put that in context.

19           In our handouts that we provided to  
20 you, we listed all the bacteria BMPs that we have  
21 implemented in the Aliso Creek watershed, a small  
22 watershed only 34 square miles. Also, it comes to  
23 about 20 million dollars. We spent another couple  
24 million dollars a year as permittees operating and  
25 maintaining those, that's for Aliso Creek.

1 Tourists aren't coming here. People aren't really  
2 swimming in the creek. Most the time, the flows  
3 are so low that they're really only ankle depth, so  
4 you're not getting the same kind of exposure as if  
5 you were a surfer or you were a swimmer in the  
6 ocean where you have that true risk of Rec 1 risk  
7 of ingesting that water and getting sick from it.

8                   And then just one final comment about  
9 uncertainty. We first got a directive on Aliso  
10 Creek to address bacteria. We were spending over a  
11 million dollars a year doing monitoring in that  
12 watershed of the creek, and we began to install  
13 these BMPs and put in an ultraviolet treatment  
14 system in right around the watershed. And we found  
15 that it did a great job of 99 percent removal or 99  
16 percent plus removal of bacteria, but then it got  
17 discharged back into the creek and those bacteria  
18 regrow and within a couple 100 feet downstream,  
19 there was zero effect from having that bacteria  
20 staying there.

21                   So we thought we learned a great lesson  
22 and then the next time we were going to do one of  
23 those, we put it at Poche Beach in San Clemente and  
24 we have it immediately upstream of the sandy beach  
25 and we thought well, this is really going to be

1 effective because we're going to divert all of the  
2 flow from the flood control channel, treat it, kill  
3 the bacteria and discharge it back. And it's still  
4 on the beach bumper list for bacteria water quality  
5 because of what's happening downstream of our  
6 treatment system.

7           So that's the kind of uncertainty that  
8 we just kind of draw a more concrete example of the  
9 uncertainty. You think okay, well, I'm going to  
10 spend four million dollars and build this system  
11 and, you know, spend a quarter of a million dollars  
12 just operating and maintaining that, and we're  
13 getting zero benefit from that because of other  
14 factors that are taking place downstream that have  
15 nothing to do with discharge from the land. So  
16 thank you for your time.

17           MS. WITKOWSKI: Jill Witkowski, San Diego  
18 Coastkeeper, also here to speaking on behalf of  
19 Julia Chunn-Heer from Surfrider Foundation, she had  
20 to leave, and also Olivia Borac from Coastal  
21 Environmental Rights Association who also had to  
22 leave. Just a quick note on who has spoken today  
23 and who has not spoken today. You have heard a lot  
24 from co-permittees and business interests and you  
25 haven't heard from environmental, but that doesn't

1 mean that we don't care. We represent thousands of  
2 people who couldn't take time off, but they entrust  
3 us with being here to advocate on their behalf.

4           Fortunately, the cost of not  
5 implementing the tentative order, I can run through  
6 a lot this because I have the exact same numbers as  
7 Ms. Walsh, and I actually have two handouts, one of  
8 which is the Pendleton document, research document  
9 that she had cited and another one is just health  
10 effects of swimming in ocean water contaminated by  
11 storm drain runoff.

12           So I will pass these around and I also  
13 have electronic copies so it can go on the website.  
14 So this is the same numbers as Lori Walsh has spoke  
15 has broken out for Orange County. So it's the  
16 numbers she presented was Orange County and L.A.  
17 County. This is just Orange County, so the direct  
18 costs from gastrointestinal illness is 6.7, 16  
19 million, so over 20 years for looking for  
20 comparison and the value of not getting sick was 56  
21 million to 136 million projected out for 20 years  
22 as well.

23           This is the same numbers that Lori  
24 pitched, but I also have the citation there at the  
25 bottom if you're interested in looking it up

1 yourself. One of the things I want respond about,  
2 we only close beaches for sewage spills, it's a  
3 really interesting point. What would the impact of  
4 our stormwater advisory be if we actually posted  
5 when the beach was advised to be closed? We don't  
6 do it because we advise that every single beach  
7 through San Diego County whenever there's  
8 significant rainfall. We don't go the hotels and  
9 tell people hey, don't go in the water. You don't  
10 -- we don't know if there's an advisory unless you  
11 know there's an advisory. So it's a really  
12 important question of what would happen if we  
13 actually told people that there was an advisory.

14           Also, there was a point raised that a lot  
15 of these numbers aren't San Diego numbers, and I  
16 think that's an excellent point. San Diego  
17 Coastkeeper and California Coastkeeper lines are  
18 currently trying to get an economist to do a study  
19 here in San Diego about these numbers, about  
20 illnesses and about economic impact from stormwater  
21 so we have better information for our decision  
22 making.

23           The breakdown and time frame of costs,  
24 I would like to speak to TMDL. TMDL and the  
25 comprehensive load reduction plan, San Diego River

1 and Chollas Creek, just one point about the TMDL  
2 that I didn't raise during the TMDL section, but  
3 there's a point made that the bacteria that we're  
4 looking for comes from warm-blooded creatures and  
5 not necessarily humans, and it's bacteria from  
6 people that makes us sick.

7           There's an answer to this as long as  
8 we're going to revisit the TMDL technology that  
9 allows us to do rapid testing to look for the type  
10 of bacteria that would make us sick. San Diego  
11 Coastkeeper has been trying to borrow a machine  
12 from squirp (phonetic) and we have been looking for  
13 partners and unfortunately, some of local agencies  
14 haven't been excited about getting it going. But  
15 that's something that can be done to address some  
16 of these issues once we start looking at TMDL  
17 again, which I agree with Wayne and Lori as a team  
18 here that this actually isn't the right place for  
19 it.

20           As long as we're talking about costs,  
21 so from the San Diego River comprehensive load  
22 reduction plan, which I'm guessing you probably  
23 didn't have a chance to look at because it's  
24 hundreds of pages, so these are some of the same  
25 things that Lori spoke that the cost opinions were

1 contained considerable uncertainties and the order  
2 magnitude estimates and cost estimates should be  
3 considered for planning level only, and there are  
4 the citations of the clerks, so take this with a  
5 grain of salt.

6                   So the San Diego River cost range was  
7 huge, includes the private property BMP, which the  
8 gentleman from Geosyntec mentioned, but if you look  
9 at how big those private property BMPs, 216  
10 million. So we're looking at a lower range of  
11 cost, that's a huge chunk. And there's actually a  
12 footnote that says due to optional strategy and  
13 they're only needed if they're needed to make the  
14 load reduction target.

15                   So if you look, there's a chart in this  
16 comprehensive load reduction plan that says breaks  
17 out private party BMPs, nonstructural, structural  
18 and actually for the lower cost, this optional  
19 strategy is actually the most extensive element of  
20 the program. Without the private property BMPs, it  
21 gets down to 374 million over 20 years. And that's  
22 the clerk citation.

23                   Also, thinking about not using  
24 San Diego numbers, so the land costs for private  
25 party BMPs were based on L.A. County land prices

1 from 2008, discounted to 2005 and assume it would  
2 be the same in San Diego as 2011. So we're playing  
3 with a lot of numbers here. I don't know why we  
4 couldn't use the San Diego-based numbers from 2011  
5 or 2012, but that's how those numbers were  
6 calculated.

7           Also, structural BMP costs were used  
8 with this tool that was developed for L.A. in  
9 conjunction with the bay and others, and there was  
10 a cost error between 2.0 and 4.0, which adds in  
11 another chunk of uncertainty.

12           Also, nonstructural BMP costs which are  
13 outreach and that type of thing, were largely based  
14 on number of staff hours which the co-permittees  
15 estimated. They acknowledge that there was a large  
16 potential savings of volunteers reviews. So \$100 a  
17 year for pest waste versus \$100 a month if the  
18 co-permittees did them themselves, but we were --  
19 Coastkeeper was never asked; Surfrider was never  
20 asked can you do a program, how much would it cost  
21 and what kind of difference could you make. So I  
22 think that's another problem with the cost  
23 estimates.

24           For the Chollas watershed, that's not  
25 only bacteria, but metals which were supposed to

1 have already been completed or implemented and they  
2 weren't given a range. They were just one number,  
3 so the cost when you look at the breakdown,  
4 includes things like landscape practices and  
5 outreach. Well, landscape practices, so  
6 overwatering, we were thinking about it. That's  
7 something we're talking about when we look at water  
8 supply and conservation, and the City of San Diego  
9 already has a big chunk of money that says we're  
10 going to do all these conservation practices, so to  
11 what extent are we double-counting these?

12 We're going to say -- we're going to  
13 put it all in the stormwater column when it really  
14 benefits multiple parts of the city program. Same  
15 thing with homelessness programs. Right now, the  
16 whole stormwater program has developed how we deal  
17 with homelessness in San Diego River because it  
18 does contribute to bacteria, but as a stormwater  
19 program who you want to develop -- be developing  
20 this type of program.

21 I think there are other elements of the  
22 City of San Diego and other environmental groups  
23 and homelessness targeted groups that would be able  
24 to help and contribute so that these costs really  
25 aren't as big as they seem.

1                   And we already talked about  
2 redevelopment, so Im done. Thank you.

3                   MR. STRAWN: We gave you a little extra  
4 time because you're representing several groups.  
5 We know that. The rest of you, don't expect so  
6 much.

7                   MR. KLEIS: Drew Kleis again, program  
8 manager with the City of San Diego. I just wanted  
9 to address the issue of cost again and clarify.  
10 And Board Member Morales, I think your comment  
11 about getting details of the cost estimates on the  
12 TMDL is a good idea. We'll get that to you. We  
13 have that. We're using it to develop our budgets,  
14 and I think it should be, you know, something that  
15 you see.

16                   I think the point to emphasize is that  
17 it is addictive, so to the example about the nine  
18 point six million dollars for landscape practices,  
19 I oversee that and it's addictive, so we're not  
20 double counting expenses that the Water Department  
21 is spending, it's on top of what we're already  
22 doing. Like we have a rebate program for rain  
23 barrels that would cover costs of the next 18 years  
24 to expand that program.

25                   To the extent that we can get double

1 benefits, yeah, that's great. We're always looking  
2 for opportunities -- in fact, our rebate program is  
3 combined with our water department. Just to  
4 clarify, I don't have the tables now, we'll get  
5 those to you, the details on the cost breakdown.  
6 86 percent of the cost goes toward structural BMPs  
7 11 percent is non-structural and about three  
8 percent is going to go to special studies and  
9 monitoring. With all the assumptions of  
10 uncertainty, you know, noted just to give you a  
11 little bit more context. Obviously the bulk is  
12 that because it needs to address wet weather. It's  
13 a part to tackle.

14 I want to close with some positive  
15 comments here, constructive comments relating to  
16 costs. It's great we had this discussion. I think  
17 it would be better over beers, personally, because  
18 it's kind of one of those things -- I know  
19 sometimes you ask us to go back in the back room  
20 and work things out, if you do, could you ask us to  
21 do it at a place that serves beers, because I  
22 personally need one right now.

23 To a serious point, the staff here, I  
24 have a lot respect for what they have done over the  
25 last -- it's really been a year and a half, they

1 met with us before they released the administrative  
2 draft. I feel like I've been heard. I feel like  
3 I've learn a lot from board staff. I've learned a  
4 lot from the other participants. And I think they  
5 have engendered a culture change that -- that's  
6 positive. There's tension sometimes, of course,  
7 but I think there's a lot of agreement and there  
8 was a lot of changes that were made on our request.  
9 So I hope the discussion today, because we're  
10 focusing on the remaining issues, which are big  
11 issues, I hope that doesn't overshadow the fact  
12 that a vast majority of our comments were listened  
13 to or were heard because we were trying to be  
14 constructive as well and they heard that. So  
15 there's a lot of creativity. There is a lot of  
16 brain power on that team right there. And I don't  
17 know what you can do for recognition. I can't even  
18 give my staff candy bars or anything anymore, but  
19 they have earned it.

20 MS. HEMZE: Good afternoon, I'm Leah Hemze,  
21 representing the San Diego Regional Chamber of  
22 Commerce and I'm neither an engineer, lawyer or  
23 budget analyst, so my comments will be very short.

24 The Chamber represents more than 2900  
25 member businesses and there are approximately

1 350,000 employees. The Chamber and its members,  
2 who both live and work in San Diego, recognize the  
3 importance of clean, safe water to the region. As  
4 staff just pointed out a moment ago there are many  
5 economic benefits associated with our clean beaches  
6 and water.

7           It is important, however, that we use  
8 our limited resources wisely and focus on practical  
9 outcomes. We recognize the importance of holding  
10 individuals, businesses and government accountable,  
11 but it is critical that accountability measures can  
12 be reasonably achieved and will likely have a  
13 significant and positive impact. Because of the  
14 these concerns we join the co-permittees and urge  
15 you to adopt final permit language that is evidence  
16 based and both environmentally and economically  
17 sustainable. Thank you.

18           MR. McSWEENEY: I hope to end this on a  
19 good note. Two things. When I sat down you  
20 mentioned about the workshops we held. It was  
21 beneficial -- I think it would have been even more  
22 beneficial if we had a longer time frame to work  
23 through, but I just want to let you know that what  
24 I've been working with with, Jill we have talked to  
25 co-permittees, part of the problem with the F word,

1 the fear, is that they're looking at increased  
2 costs and where do they get the money. And, you  
3 know, local government is somewhat hamstrung in the  
4 ability to just charge for something because  
5 there's Prop 218.

6 One of the things that my industry is  
7 doing, I actually have a conference call tomorrow  
8 with Sacramento with my statewide organization. We  
9 are trying to explore some options to come up with  
10 broader based funding so that the co-permittees  
11 have some additional resources to be able to do  
12 these kinds of things, because if you look to just  
13 the development industry, if you looked at the  
14 entire county pie chart, there's a little sliver  
15 each year that gets developed or redeveloped.  
16 We'll never generate enough money. So one of the  
17 things to try and -- I look at things personally as  
18 challenges to be solved, not just how do we get  
19 around it and deal with it two years down the road  
20 or five years down the road. My background is  
21 solving problems. And so I see that one of the big  
22 problems is money. And nobody -- we talked about  
23 cost, but we didn't talk about revenue. So that's  
24 one of the things that we're hoping to go do is try  
25 and think of different solutions to be able to, not

1 just for my industry, but for the society as a  
2 whole, to try to figure out a way to solve it.

3           So I'm hoping that maybe at one of the  
4 future meetings we'll have made some progress and  
5 I'll be able to report back to you that we think we  
6 have a strategy here that -- that will work and  
7 this is how we can get it to the legislature and  
8 provide a funding stream dedicated to solve this  
9 problem. Thank you.

10           MR. STRAWN: Comments from the board?

11           MR. GIBSON: It's been a very long day, but  
12 I'll quote Benjamin Franklin, if you'll indulge me.  
13 "When the well is dry we know the worth of water,"  
14 circa 1746.

15           So much easier to calculate the costs  
16 of things we have to do than it is to calculate the  
17 costs of what might have been if we had not done  
18 them. And although it's true that tourist have  
19 been coming to San Diego for more than 20 years,  
20 it's also true we have more people living in the  
21 San Diego region now than we did 20 years ago. And  
22 some of what we have done has been just to keep the  
23 brakes on from making things get a lot worse than  
24 they otherwise might have been. And I think we can  
25 be grateful for that.

1                   Just a couple of thoughts I wanted to  
2 share. One is that I heard a lot about the risks  
3 to humans from non-human sources of bacterial  
4 indicators, but I didn't hear anything about the  
5 risk to non-humans and part of our charge is  
6 protect the marine beneficial use for example. And  
7 an example of where this has been played out is in  
8 region three in the central coast where sea otters  
9 have been effected from stormwater runoff. Not  
10 from human pathogens, but from cat pathogens,  
11 toxoplasma gondii, a parasite, has effected the  
12 recovery of those species up there. So one wonders  
13 what is the effect to seals or sea lions from  
14 bacterial indicators. But more to the point  
15 bacterial indicators being an indicator of  
16 pathogens, yes. They're also an indicator of all  
17 the other stuff that's in the soup; the trash, the  
18 nutrients, the insecticides, the pesticides. While  
19 we're spending a lot of time talking about the  
20 bacterial levels, there's a lot more we need to be  
21 concerned about.

22                   We talked during the previous workshop  
23 about one way in which we learned lessons and we  
24 incorporate those lessons in how we do things, and  
25 Wayne Chu referred to the fail early, fail often

1 mode. This permit should not be seen as an  
2 exercise in failure, it should be seen as an  
3 opportunity to learn.

4           So where we are now is we have some  
5 serious costs and we've lost some flexibility. The  
6 approach that we want to take now with the water  
7 quality improvement plan, incrementally at least,  
8 is intended to obviate the need for those TMDLs to  
9 get to that desirable outcome without going through  
10 those efforts.

11           EPA I think is intrigued with our  
12 approach. I think they want to see results from  
13 it. They are also doubting Thomas', not to jump to  
14 the weekend yet, but they're skeptical. They want  
15 to see some backstops. They have actually required  
16 to us put back in some of the measures that Claudio  
17 Padres was referring to where one size fits all.  
18 But I think in the fullness of time, if this water  
19 quality improvement plan approach is truly embraced  
20 and worked we might be able to get to that point  
21 where we can pull back some of the specificity of  
22 the inspection requirements, for example,  
23 throughout every watershed, throughout every issue.  
24 There is a lot that I want to cover but it has been  
25 a very long day and I wanted to emphasize, as a

1 closing, again, I think I need a beer too, is that  
2 we have really tried to look at a different  
3 approach both in terms of content and process and I  
4 think this workshop exemplifies that. The fact  
5 that we talked about three areas rather than three  
6 dozen, rather than the entire permit. So those are  
7 the thoughts I would like to leave the board with  
8 today unless there are any particular questions  
9 that you would like to have us address before we  
10 close today.

11 MR. STRAWN: One thought, because I tend to  
12 lose my place in this book, I'm hoping that the  
13 next time we see the tentative order it will be --  
14 we'll be able to see which of these changes that  
15 we've heard about over the last two extended  
16 meetings have been incorporated. And -- in other  
17 words, a red-lined version to make it clear to us  
18 that -- where we've compromised.

19 And with that, unless there's any other  
20 comments, I'll say Happy New Year. We will see you  
21 in February and we are adjourned. Thank you all  
22 very much for sticking with us.

23 (Whereupon the meeting was adjourned at  
24 4:52 p.m.)

25 \* \* \*

1 I, Johnell M. Gallivan, Certified Shorthand  
2 Reporter for the State of California, do hereby  
3 certify:

4

5 That the meeting was taken by me in machine  
6 shorthand and later transcribed into typewriting,  
7 under my direction, and that the foregoing contains  
8 a true record of the meeting.

9

10

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12 Dated: This day of , 2013,  
13 at San Diego, California

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16 \_\_\_\_\_  
Johnell M. Gallivan

17 CSR No. 10505

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