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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

IN THE MATTER OF
TECHNICAL COMMENTS ON THE AMENDMENT
TO APPLICATION FOR REVISION 20-1 AND
PROPOSED COST ESTIMATE, CLOSURE/CLOSEOUT
PLAN UPDATE, CUNNINGHAM HILL MINE,
PERMIT NO. SF002RE

LAC MINERALS (USA) LLC, Applicant

TRANSCRIPT OF PROCEEDINGS

BE IT REMEMBERED that on the 2nd day of
November, 2022, this matter came on for hearing before
FELICIA ORTH, Hearing Officer, at the Runnels Building
Auditorium, 1190 S. St. Francis Drive, Santa Fe, New
Mexico, and virtually using WebEx Event application, at
the hour of 5:00 p.m.

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A P P E A R A N C E S

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A P P E A R A N C E S (Continued)

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1 HEARING OFFICER ORTH: Good evening, everyone.

2 My name is Felicia Orth, Hearing Officer
3 appointed by the Mining and Minerals Division of the
4 Energy, Minerals and Natural Resources Department to
5 conduct a public hearing on the application by LAC
6 Minerals, the operator of the Cunningham Hill Mine, for
7 a proposed update to the Closure/Closeout Plan, which
8 you may hear referred to as a CCP, and a request for a
9 waiver of the open pit.

10 The Cunningham Hill Mine is a gold mine
11 located approximately six miles south of Cerrillos, New
12 Mexico, in Santa Fe County. The permit number is
13 SF002RE, and this particular requested revision is 20-1.

14 Several housekeeping items before we hear from
15 the folks involved.

16 There are sign-in sheets on the table at the
17 back of this auditorium. We're in the auditorium in the
18 Runnels Building. Please sign in if you haven't done so
19 already. No salesmen will call. We use the sign-in
20 sheets for the correct spelling of your name in the
21 transcript and as evidence of public participation. I
22 also refer to them if there are lots of folks desiring
23 to offer public comment as a way of calling on you in
24 order.

25 The entirety of the hearing is being --

1 MS. ROSE: Felicia?

2 HEARING OFFICER ORTH: Yes.

3 MS. ROSE: I'm so sorry to interrupt.

4 It's very hard to hear you on the virtual
5 platform.

6 HEARING OFFICER ORTH: Oh, okay.

7 Is this better?

8 MS. ROSE: That's better. Thank you.

9 HEARING OFFICER ORTH: Okay. I am going to
10 stop moving my head.

11 All right. Thank you for that.

12 So again a number of things.

13 The sign-in sheets are on the back table.

14 There's also a fact sheet which is dense with
15 information about this matter, gives you the web
16 addresses for all of the documents in the file on which
17 the decision will be made and a number of bullet points
18 as to the purpose of this hearing and the next steps in
19 the permitting process.

20 The hearing is being recorded and transcribed
21 by Cheryl Arreguin of Albuquerque Court Reporting
22 Services. Please contact Cheryl if you'd like a copy of
23 the transcript.

24 We're going to hear first from the Mining and
25 Minerals Division and then from LAC Minerals and then

1 from Friends of Santa Fe County. Each of these parties
2 have PowerPoint presentations and technical comments to
3 offer on the proposed permit revision.

4 We'll also be accepting public comment this
5 evening, and I'll invite public comment in between each
6 of the technical presentations.

7 We are in a state building after hours, which
8 brings with it a few things that we have to honor to be
9 here.

10 One is you may see security in the vicinity.
11 We needed to do that. We also need to ask you not to go
12 anywhere else in the building -- this is the Runnels
13 Building -- except to the bathrooms, which you'll find
14 on either side of the elevators, women on the left, men
15 on the right. Please don't go to any other floor, for
16 example, or any other offices.

17 And the door will lock behind you if you leave
18 the building, so we're going to have MMD staff
19 monitoring the door to let people in and out throughout
20 the evening. Just be aware.

21 MS. ROSE: I -- Felicia?

22 HEARING OFFICER ORTH: Yes.

23 MR. MYERS: It's still -- Madam Hearing
24 Officer, it's still hard to hear.

25 HEARING OFFICER ORTH: I'm sorry?

1 MR. MYERS: It's still hard to hear.

2 HEARING OFFICER ORTH: It's still hard to
3 hear?

4 MR. MYERS: Yeah. So you'll -- I don't know
5 if you'll have to stay closer to it or --

6 HEARING OFFICER ORTH: Oh, okay. I'm --

7 MS. ROSE: You may need to turn up the volume
8 on the sound system, too. It's -- I'm sorry. I
9 wouldn't interrupt, but it -- it's really difficult to
10 hear what you're saying.

11 HEARING OFFICER ORTH: I am sorry. I feel
12 like I'm leaning my lips on the microphone.

13 MR. MYERS: Yeah. You need to be within one
14 inch.

15 HEARING OFFICER ORTH: Okay.

16 Let's see.

17 No decisions will be made this evening. The
18 director will be reviewing all of the documents in the
19 file and all of the comments and documents submitted
20 this evening.

21 We will leave the record open following this
22 hearing. At the moment we're contemplating
23 November 18th -- that's a Friday -- as the final date
24 for comments to be submitted on this proposed revision.

25 Let's see. I think the transcript, the

1 bathrooms, the fact sheet.

2 There are some alcohol wipes next to the
3 podium where folks will come up to give their comment.
4 Because we have to speak so close to the microphone, if
5 you'd like to take an alcohol wipe to it, if there's
6 been someone there before you, please go ahead and do
7 that.

8 And again everything related to this proposed
9 permit revision can be found now or after this event on
10 the EMNRD MMD Pending and Approved Mining Applications
11 web page, all of which is set out on the fact sheet.

12 So perhaps we'd like to have introductions
13 first.

14 Ms. Rose or Mr. Wade, would you like to make
15 introductions for the Division.

16 MS. ROSE: I'm sorry. Could you repeat that,
17 Felicia?

18 HEARING OFFICER ORTH: Yes.

19 Would you like to introduce yourself and
20 anyone else you have with you on behalf of the Division.

21 MS. ROSE: Yes. I can introduce myself on
22 behalf of the Mining and Minerals Division. I'm Carmen
23 Rose, the permit lead.

24 There are several other members of the Mining
25 and Minerals Division in the audience today, and there's

1 a couple online, and I can let them introduce themselves
2 if they'd like.

3 MR. WADE: I -- I can start off. Gabriel
4 Wade. I'm the attorney for the Mining and Minerals
5 Division.

6 HEARING OFFICER ORTH: Hello, Mr. Wade.

7 And, Kevin, would you introduce yourself since
8 you're there front and center.

9 MR. MYERS: Hi.

10 I'm Kevin Myers, and I'm with the Mining and
11 Minerals Division.

12 HEARING OFFICER ORTH: Thank you.

13 We also have other staff in the room.

14 And Mr. -- Mr. Shepherd.

15 MR. SHEPHERD: Good evening.

16 I'm Holland Shepherd. I'm the program manager
17 of the Mining Act Reclamation Program, and here working
18 with the rest of my -- whoa. It's got to be this one.

19 Yeah. Here working with the rest of my staff,
20 and happy to see the LAC folks are here and Friends of
21 Santa Fe County.

22 So anyway, I'll pass it on to DJ Ennis to
23 introduce himself.

24 MR. ENNIS: Hi, everyone.

25 I'm DJ Ennis. I'm a reclamation specialist

1 with the Mining and Minerals Division.

2 HEARING OFFICER ORTH: All right. Thank you.

3 Thank you, all.

4 Mr. Indall, would you like to introduce
5 yourself and your client.

6 MR. INDALL: Mike?

7 HEARING OFFICER ORTH: Please.

8 MR. INDALL: My name is Jon Indall, and I'm an
9 attorney with Maldegen, Templeman & Indall here in Santa
10 Fe, and I represent LAC Minerals.

11 And with me tonight is Elizabeth Rudolf who is
12 an in-house counsel, and Daniel Lattin who is the
13 project manager, and Steve Finch who is our consultant.
14 He's with John Shomaker & Associates.

15 HEARING OFFICER ORTH: Thank you very much.

16 Mr. Jantz, would you like to introduce
17 yourself and your clients.

18 MR. JANTZ: Yes. Thank you, Madam Hearing
19 Officer.

20 Eric Jantz, New Mexico Environmental Law
21 Center, senior staff attorney. I'm here on behalf of
22 Friends of Santa Fe County.

23 And I'm here with co-counsel, Mara Yarbrough.

24 HEARING OFFICER ORTH: Thank you very much.

25 Let's begin, then, with Ms. Rose.

1 I did forget to mention testimony is taken
2 under oath and is subject to questioning.

3 For those in the room, I will ask you to raise
4 your hand if you have a question of a witness. For
5 those participating on the virtual platform, I will ask
6 you to indicate through chat what your question is when
7 we get to that point.

8 Mr. Myers.

9 MR. MYERS: Would you like to turn your camera
10 on just to --

11 HEARING OFFICER ORTH: Oh. Very sorry. I
12 didn't realize.

13 MR. MYERS: No worries.

14 HEARING OFFICER ORTH: Behind a black screen.

15 All right. Ms. Rose.

16 MS. ROSE: Yes. I'm here.

17 HEARING OFFICER ORTH: All right. If you
18 would raise your right hand.

19 Do you swear or affirm to tell the truth?

20 MS. ROSE: I do.

21 HEARING OFFICER ORTH: Thank you.

22 Please go ahead, and I believe Mr. Myers has
23 your presentation to share.

24 MR. MYERS: Well, actually, since you're
25 virtually, you can go ahead and control it yourself.

1 MS. ROSE: Okay. I will go ahead and do that.

2 Can everyone see this okay?

3 MR. WADE: Yes. It's clear for me.

4 MR. JANTZ: Is she presenting?

5 MR. MYERS: No. She hasn't spoken.

6 Are you waiting on something?

7 MS. ROSE: Oh, yeah. I was waiting -- I
8 thought you had said hold on a moment, so that's why I
9 was waiting.

10 MR. MYERS: No. Sorry. We did not.

11 MS. ROSE: Oh. My apologies.

12 CARMEN ROSE

13 having been first duly sworn or affirmed, was
14 examined and testified as follows:

15 DIRECT TESTIMONY

16 MS. ROSE: My name is Carmen Rose. I'm with
17 the New Mexico Mining and Minerals Division, which is a
18 regulatory agency under the Energy, Minerals and Natural
19 Resources Department.

20 I really wish I could be there in person with
21 you all tonight, but I'm getting over a cold. I didn't
22 want to pass that along to anyone.

23 So I am the permit lead for the mine site that
24 we're talking about today, which is the Cunningham Hill
25 Mine, Permit Revision 20-1 Application. And this

1 application proposes to update the Closure/Closeout
2 Plan, and it also includes a -- includes a pit waiver
3 request.

4 More information on this permitting process
5 can be found on our web site at emnrd.nm.gov/mmd, and
6 you can navigate directly to the Cunningham Hill web
7 page.

8 My contact information is also posted on this
9 slide, along with our director's, Jerry Schoepner. His
10 e-mail address is posted there, along with our mailing
11 address.

12 Just a couple of housekeeping things I wanted
13 to mention.

14 First is that I will try to limit the number
15 of acronyms I use in this presentation to two. So MMD
16 I'll use for the Mining and Minerals Division, and then
17 I'll use CCP for the Closure/Closeout Plan.

18 The Closure/Closeout Plan is essentially a
19 reclamation plan. It's a plan where the operator
20 describes what reclamation activities will be conducted
21 after the mining operation is -- is complete.

22 The Mining and Minerals Division has
23 requirements in the New Mexico Mining Act rules to allow
24 for public participation of permitting activities, such
25 as this one. So LAC posted public notice twice for this

1 permit process. And MMD received several requests for a
2 public hearing from the public, in addition to a few
3 different organizations.

4 So MMD will consider public comments from this
5 public hearing in its review of the Permit Revision 20-1
6 Application, which includes the updated CCP, the pit
7 waiver request, in addition to a financial assurance
8 cost estimate.

9 If you'd like to see more about our rules, you
10 can go to srca.com -- .nm.gov and look under chapter 10.

11 There are real -- four real components of this
12 hearing.

13 The first is that I am representing MMD to
14 describe our process for reviewing the Cunningham Hill
15 Mine Closure/Closeout Plan and pit waiver request in
16 accordance with the New Mexico Mining Act rules.

17 LAC Minerals, the operator, is here to present
18 information on the proposed update to the
19 Closure/Closeout Plan and pit waiver request.

20 A representative from Friends of Santa Fe
21 County will testify.

22 And then lastly, the public will have an
23 opportunity to ask questions on the product -- process
24 and comment on the proposed CCP.

25 This is a brief permitting history for the

1 Cunningham Hill Mine site.

2 The mine was initially permitted with the
3 Mining and Minerals Division in September of 1995.

4 Shortly after that, in 1996, the operator
5 submitted the original Closure/Closeout Plan, and MMD
6 approved that original Closure/Closeout Plan in 2002.

7 Jumping ahead to 2018, there was a
8 modification to release just over 200 acres of reclaimed
9 area and related financial assurance on the mine. And
10 I'll be showing a map in just a moment to show you which
11 units were released in that modification and what remain
12 under the Mining Act permit and which ones are addressed
13 in the CCP.

14 In September of 2019, the Mining and Minerals
15 Division and the New Mexico Environment Department wrote
16 a joint agency letter requesting that LAC submit an
17 updated CCP because the CCP had not been updated since
18 the original Closure/Closeout Plan in 2002.

19 And subsequently LAC submitted that
20 application in October of 2020 to begin the Revision
21 20-1 process.

22 So here's a map of the mine site, kind of
23 showing which units remain in the permit and which ones
24 have been released from the permit. This figure was
25 taken directly out of the Closure/Closeout Plan that was

1 submitted by LAC.

2 So you can see the yellow polygons are the
3 units that were reclaimed and released. They met all of
4 the requirements of the Mining Act permit. And the
5 units that remain in the permit area are the green
6 shaded areas and the blue shaded areas. So those are
7 areas that have been fully reclaimed or not quite
8 reclaimed, but they are still under the Mining Act
9 permit.

10 I'd like to take a moment to define what a
11 permit revision is and describe the components of the
12 permit revision application.

13 So when there's a change to a permit, a mining
14 permit, we process that as a modification or a revision.
15 In this case MMD determined that this was a revision
16 because it significantly departed from the nature or
17 scale of the original permit in the original
18 Closure/Closeout Plan.

19 So the application itself includes quite a few
20 components. There's the Closure/Closeout Plan, or
21 reclamation plan. There is a reclamation financial
22 assurance cost estimate. There's the pit waiver
23 request. And then there's some administrative
24 components such as the proof of public notices, the
25 permit application fee, and some additional information

1 requested by the director.

2 Here's a very abbreviated permit revision
3 application timeline.

4 The permit application was originally
5 submitted in October of 2020.

6 And the -- the Mining and Minerals Division in
7 consultation with other state agencies responded to that
8 and provided technical comments in a request for
9 additional information back to the operator in April
10 of 2021.

11 In October of 2021, LAC submitted an amendment
12 to the original application, and that included a request
13 for a pit waiver at that time.

14 MMD provided more technical comments and
15 another request for additional information, and LAC
16 submitted supplemental technical information and two
17 draft reclamation cost estimates in May of 2022.

18 The most recent correspondence with this
19 permit application was the MMD sent MMD comments and
20 state agency comments to the operator last week.

21 I know that the words on the slide are very
22 small, but I -- I included this as a snapshot of what
23 our web site looks like. So if you navigate to this web
24 page, you can find all of the information, the
25 Closure/Closeout Plans that have been submitted with

1 amendments, and the agency response -- comments and
2 technical comments, requests for additional information.
3 You can find all of that information on our web site.

4 I don't expect you to write down the URL
5 that's here, but this URL is provided in the
6 informational fact sheet that's by the sign-in sheets if
7 you're in person, and if you're online, this should be
8 attached to the WebEx invite.

9 Now that I've talked a little bit about the
10 history of the mine permit and what the permit revision
11 application timeline looks like, I'll talk a bit about
12 the MMD reclamation requirements that are addressed in
13 the CCP.

14 So LAC is required to reclaim the site to a
15 self-sustaining ecosystem and/or an appropriate
16 postmining land use. This is really the meat and
17 potatoes of the Mining Act. It's essentially -- was
18 written to allow for operators to reclaim hardrock mines
19 after mining.

20 So a couple of definitions here.

21 A self-sustaining ecosystem is really the goal
22 of reclamation. It is site-specific and life zone
23 appropriate. Typically MMD considers vegetation
24 communities, site stability used in human and wildlife
25 health and safety when assessing what a self-sustaining

1 ecosystem is, but of course there are other factors that
2 can be taken into consideration.

3 A postmining land use is fairly
4 straightforward, but it's a beneficial use established
5 for the permit area after mining.

6 So the approved postmining land uses for
7 Cunningham Hill include wildlife habitat and industrial
8 use. Industrial use is just where the office building
9 is.

10 In addition to LAC's explanation of how the
11 site will achieve a self-sustaining ecosystem in most
12 units, LAC has applied for a pit waiver for the open pit
13 unit.

14 So an application for a pit waiver is allowed
15 under the New Mexico Mining Act rules if reclamation is
16 considered technically or economically infeasible or is
17 environmentally unsound.

18 However, LAC must demonstrate that obtaining a
19 pit waiver will result in compliance with all federal
20 and state laws, compliance with applicable environmental
21 regulations and standards, and will pose no risk to
22 human health or safety.

23 Another component in the CCP is the proposed
24 surface reclamation cost estimate. So this cost is the
25 costs based on what it would take a third-party operator

1 to come in and do the reclamation that's described in
2 the reclamation plan or CCP.

3 Collecting financial assurance is part of
4 MMD's regulatory responsibilities. So we take a very
5 close look at this -- this cost estimate, and it is part
6 of our rules in part 12.

7 Currently LAC is proposing to provide
8 approximately \$1.16 million in financial assurance for
9 this operation, but this amount is subject to change,
10 and this is specifically related to the surface
11 reclamation components.

12 Next steps for this public hearing process is
13 that MMD will consider the public comments that we
14 receive today in the public hearing and its review of --
15 and our review of the Permit Revision 20-1 Application.

16 And written comments may be submitted until a
17 date announced by the Hearing Officer.

18 We will also continue our technical review of
19 the updated CCP and pit waiver request, and this
20 includes consultation with other agencies.

21 The Closure/Closeout Plan will need to receive
22 an environmental determination from the New Mexico
23 Environment Department stating that the application has
24 demonstrated that the activities to be permitted or
25 authorized will be expected to achieve compliance with

1 all applicable air, water quality and other
2 environmental standards.

3 So this language that's italicized here comes
4 directly from the New Mexico Mining Act rules.

5 The MMD director will then determine whether
6 the Permit Revision 20-1 Application is technically
7 approvable.

8 And at that time we would request that LAC
9 submit a financial assurance proposal.

10 After MMD secures that financial assurance
11 proposal and instrument, the permit document will be
12 drafted. And in addition to ensuring that LAC is
13 complying with all regulatory requirements under the New
14 Mexico Mining Act, we can condition the permit and
15 provide contingencies to address site-specific
16 environmental concerns, monitoring and maintenance of
17 the reclamation, reclamation timelines, and public
18 health and safety.

19 And on a final note, I just want to mention
20 that MMD reviews permits every five years. We've
21 reviewed the Closure/Closeout Plans and financial
22 assurance related with those every five years. So this
23 is an ongoing process, and we'll be continuing to look
24 at this permit. And once this -- once this permit
25 document is drafted, this isn't the end of the

1 permitting process for this mine site.

2 And with that, I would like to take any
3 questions you may have.

4 HEARING OFFICER ORTH: All right. Let me ask
5 Mr. Indall, do you have questions of Ms. Rose?

6 MR. INDALL: A couple.

7 HEARING OFFICER ORTH: Ms. Rose, Mr. Indall is
8 going to the podium.

9 CROSS-EXAMINATION

10 BY MR. INDALL:

11 Q. Good evening, Ms. Rose.

12 Just to clarify, the proposed CCP and pit
13 waiver will not alter the DP-55 and AP-27; is that
14 correct? The abatement plan for the water remediation
15 at the site?

16 A. I'm sorry, Mr. Indall. I'm having a really
17 hard time hearing you.

18 Q. Oh, a little closer? Okay. I'll try it
19 again.

20 A. Yes. That's better.

21 Q. To clarify, the proposed revision to the CCP
22 and the pit waiver request will not alter or -- the
23 AP-27 and Discharge Permit 55; is that correct?

24 A. Well, if I -- if I'm understanding your
25 question correctly, it will not alter -- the pit waiver

1 request will not alter the two permits that are
2 regulated under the Environment Department. However,
3 the Closure/Closeout Plan is associated with -- does
4 have a description of how some activities under the
5 discharge permit are carried out. So NMED is reviewing
6 those -- reviewing this application in conjunction with
7 MMD.

8 Does that answer your question?

9 Q. Yeah. My point is that those -- those
10 groundwater issues will still be pending after the --
11 after the CCP is approved or disapproved or modified.

12 A. Right. The New Mexico Environment
13 Department -- they are the ones who oversee the Water
14 Quality Act, and they -- they hold those water quality
15 permits. So yeah. It wouldn't -- it wouldn't really
16 affect those permits per se.

17 Q. Okay.

18 And then you mentioned there was a financial
19 assurance for the surface reclamation.

20 There's also a financial assurance for the
21 groundwater remediation; is that correct?

22 A. That's correct.

23 Q. And that will still be subject to NMED's
24 approval?

25 A. Right. MMD provided technical comments on the

1 draft cost estimates last week, and that was in
2 consultation with the New Mexico Environment Department.

3 MS. ROSE: Thank you.

4 That's all I have.

5 HEARING OFFICER ORTH: Thank you, Mr. Indall.

6 Mr. Jantz, do you have questions of Ms. Rose?

7 Ms. Rose, Mr. Jantz does.

8 MR. JANTZ: I do, Madam Hearing Officer.

9 And if it's okay with everybody, I'd like to
10 split some of the questioning up with Ms. Yarbrough?

11 HEARING OFFICER ORTH: That's fine.

12 MR. JANTZ: That's acceptable?

13 Okay. Great. Thank you.

14 CROSS-EXAMINATION

15 BY MR. JANTZ:

16 Q. Can you hear me okay, Ms. Rose?

17 A. Yes, I can hear you. Thank you.

18 Q. Great. Thank you.

19 All right. So a lot of my questions are going
20 to go to sort of this distinction between surface
21 features and groundwater and how the financial assurance
22 works between the two.

23 But I want to start with a question about the
24 recent erosion and rilling that was discovered at the
25 waste pile, and I was wondering what MMD's thoughts are

1 on whether that restarts the 12-year release period or
2 not under the Mining Act.

3 Can you tell me that?

4 A. Yeah. That's -- that's a very good question.

5 We are processing that waste rock pile repair
6 work plan as a corrective action plan, and it's a -- it
7 is a joint agency plan with MMD and NMED to address
8 those -- those concerns. So right now we're processing
9 it as a corrective action, and what they have proposed
10 currently does not reset their 12-year time clock for
11 that, because they're doing -- they're doing spot
12 repairs.

13 Q. Okay.

14 So could you give us a sense of what might
15 restart the 12-year process?

16 A. That is a much harder question, and I -- I
17 really don't know how to answer that.

18 Q. Okay.

19 A. We would have to review it.

20 Q. Okay.

21 A. We'd have to see what LAC is proposing, and we
22 would have to review that and make a determination at
23 that point.

24 Q. Okay. Great. Thank you.

25 So in terms of the -- the spot repairs, I read

1 in the October 25th letter from MMD and NMED about
2 contingency requirements for eight acres worth of soil
3 covering one foot.

4 Can you give us -- give me a sense of where
5 that eight acre figure came from, how you calculated it?

6 A. Yeah. That's another very good question.

7 We calculated that because there are -- there
8 was an isopach map that was included in one of the
9 designs that LAC submitted, and we kind of looked at
10 that and made a determination that approximately half of
11 the waste rock pile may need to have some -- some
12 financial assurance related with additional cover. So
13 that's where that eight acres came from, because eight
14 acres is approximately half of the base of the waste
15 rock pile.

16 Q. Oh, okay. All right. I was -- I was
17 thinking -- and please correct me if I'm wrong -- that
18 the waste rock pile encompassed 72 acres?

19 A. It does. Yeah. That's correct. But the --
20 the waste rock pile slopes are only approximately 16
21 acres.

22 Q. Oh, okay. All right. Great.

23 And half is a sufficient amount, you think,
24 to, say, handle catastrophic perhaps erosion sometime in
25 the future?

1 A. At this point this is what we have asked for.
2 You know, we can always reassess that in the future, but
3 at this point that -- that's what we've requested from
4 LAC.

5 Q. Okay. Thanks.

6 So in that same vein, you know, I was looking
7 at some of the repairs or proposed repairs that LAC is
8 doing. One is to the East Groin, the geosynthetic
9 liner. And so this is getting into the sort of
10 relationship between surficial features and groundwater,
11 right, or -- or water, the hydrologic cycle.

12 So I guess a quest -- my question is what kind
13 of contingencies does MMD -- will MMD require for repair
14 of those sorts of surficial features that might impact
15 groundwater at some point?

16 A. And you're talking -- you're asking
17 specifically about the East Groin; is that correct?

18 Q. Yeah. We'll -- we'll start with the East
19 Groin.

20 A. Right. Well, we have included in our
21 conditional approval of the design package that LAC
22 submitted recently -- we included a contingency that --
23 that LAC has to reassess the areas and the cover after
24 two years. I believe we gave them July 1st of 2025.

25 Q. Okay.

1 A. 2024 maybe. Sorry.

2 Q. That's okay.

3 A. Yeah. It's in our comment letter that we --
4 we have asked them to see how -- how the waste rock pile
5 will be performing, the cover performance of the waste
6 rock pile after these repairs are done. So that is --
7 that's one contingency and one element that we're
8 looking at.

9 Q. Okay.

10 So I guess sort of a bigger question is
11 that -- okay. So we have like these surface features,
12 the East Groin area, the erosion on the waste pit --
13 or -- yeah, the waste pile slopes. There are a lot of
14 these sort of longer term considerations, because
15 erosion is not going to stop, right? I mean, that's
16 going to continue throughout the life of the minerals,
17 the metals that are underneath the waste rock pile
18 cover. Same with the East Groin, right?

19 Same with the -- the evaporation ponds.
20 They're going to be lined presumably, and those line --
21 those liners will have to be monitored and repaired
22 periodically, I assume, beyond the 12-year closure
23 period.

24 So my question is who holds the financial
25 assurance for those? Is that an NMED thing, or is that

1 an MMD thing, or is it a both thing?

2 A. Currently that -- the financial assurance held
3 for that is -- is joint. It's joint between MMD and
4 NMED.

5 Q. Okay.

6 And when -- and when the 12-year performance
7 period ends, does MMD give up or release its portion of
8 the -- the financial assurance even if those surficial
9 features may erode, degrade, break, over the course of
10 time?

11 A. Well, you know, in -- in the Mining Act
12 permit, LAC does have to demonstrate that the site is
13 stable.

14 Q. Um-hum.

15 A. So we would have to see that and see that
16 they've achieved a self-sustaining ecosystem in order to
17 release financial assurance on the site. If they do get
18 to that point, then -- and all that remains is water
19 quality --

20 Q. Um-hum.

21 A. -- concerns, you know, the -- the ponds, the
22 water treatment ponds, treating the pit lake,
23 theoretically that financial assurance would get shifted
24 to the Environment Department.

25 Q. Yeah. So, I guess, let me -- let me rephrase

1 what I'm thinking here. I guess our worry is 30, 40
2 years down the road, right? Even if there's a
3 supposedly self-sustaining ecosystem, there is the risk
4 for erosion happening, say, on the waste pile slopes,
5 right?

6 And -- and when that happens, and I think it
7 probably will eventually, how -- how is that addressed?
8 Who is responsible for that, or is it just left?

9 A. Well, I would hope at the end of the -- I
10 would hope that the New Mexico Mining Act would not
11 release the site if there was concerns about significant
12 erosion remaining at the site. But, you know, like I
13 mentioned before, if -- if all that remains on site is
14 water treatment and all reclamation requirements under
15 the Mining Act permit have been achieved, then we would
16 consider an application for release of the financial
17 assurance.

18 Q. Okay.

19 A. And that would move to the Environment
20 Department if -- if all remaining funds are water
21 quality related.

22 Q. Okay.

23 And so one last question -- well, let me
24 actually follow up on Mr. Indall's question about the
25 impact on the abatement plan and the discharge permit.

1 Those two documents aside, it's MMD's position
2 that the Water Quality Act is still going to apply to
3 the pit lake; is that right?

4 A. Of course, yes.

5 Q. Okay. Excellent. Great. Thank you --

6 A. Yeah.

7 Q. -- for that clarification.

8 And so sort of a last question I had is more
9 procedural, and it has to do with the October 25th
10 letter that NMED and MMD sent out -- or rather MMD and
11 NMED sent out.

12 There are a lot of -- that letter raises a lot
13 of really important issues in Friends of Santa Fe
14 County's minds, and I was wondering if we'll have the
15 opportunity and the public will have the opportunity to
16 comment on LAC's responses when that -- when those
17 responses come, because, like I said, those are some
18 really important issues that -- that MMD and NMED have
19 identified.

20 A. Yeah. Well, that's an excellent question.

21 I -- I think that is above my head. That
22 would be a determination from the Hearing Officer and --
23 and MMD director. But I think we can make note of that
24 and -- and get back to you.

25 Q. Excellent. Thank you.

1 And just for the record, Madam Hearing
2 Officer, I would like to request that the record be held
3 open in order to allow the public to weigh in on LAC's
4 responses.

5 HEARING OFFICER ORTH: Thank you, Mr. Jantz.

6 MR. JANTZ: So now I'd like to turn it over to
7 Ms. Yarbrough.

8 HEARING OFFICER ORTH: Thank you.

9 Ms. Yarbrough.

10 MS. YARBROUGH: Thank you, Madam Hearing
11 Officer.

12 CROSS-EXAMINATION

13 BY MS. YARBROUGH:

14 Q. Can you hear me, Ms. Rose?

15 A. Yes. Yeah.

16 Q. Okay. All right.

17 So I'm going to shift over to the possibility
18 of pit wall failure and slope stability.

19 Is it MMD's position that there is no risk of
20 pit wall failure?

21 A. I -- I wouldn't go so far as to say that. I
22 don't know if we have a position on it.

23 Q. Okay.

24 Will the pit walls be exposed to rain?

25 A. Yes.

1 Q. And wind?

2 A. Yes.

3 Q. How about runoff?

4 A. Sorry. Couldn't hear that one.

5 Q. I said how about runoff?

6 A. Yes.

7 Q. So erosion will occur, it seems.

8 A. Yes.

9 Q. Okay.

10 I'm going to refer to the 1994 slope stability
11 report by Hall -- I'm sorry -- Call & Nicholas that
12 concluded that the stope in -- slope instability in the
13 pit is not expected to occur. However, there's a
14 concession that analysis is not rigorous enough, would
15 require more fieldwork to meet government's
16 requirements.

17 So the question is does it make sense to
18 require further study to ensure pit wall stability?

19 A. You know, this is an interesting question that
20 has been brought up. The agencies have talked
21 internally about -- about a pit stability report and
22 what it would mean. And I would encourage you to put
23 that in a written comment for consideration. But we --
24 you know, we have been considering that.

25 Q. Okay. Thank you.

1 Also, there's a recommendation in the report
2 to install survey monuments to document slope movement.

3 Do you know if that has been done?

4 A. I don't know.

5 Q. Okay.

6 So I'd like to address the issue of acid rock
7 drainage right now, ARD.

8 So the CCP indicates that ARD will be managed
9 with a passive system of directing the flow to
10 evaporation pits.

11 And the question is whether MMD will require
12 long-term monitoring and maintenance -- maintenance as
13 the pit liners degrade over time?

14 A. That is a great question, and actually it's
15 probably better answered by a representative from the
16 New Mexico Environment Department. And I know that
17 there is a representative there. She can answer that
18 question if she would like to.

19 Q. The second half of that question is whether
20 there will be long-term monitoring and maintenance
21 related to sludge removal.

22 A. I'm sorry. Could you say that one more time?

23 Q. Will there be monitoring and maintenance
24 related to sludge removal?

25 A. That's -- again that's an excellent question,

1 but I -- I have not looked at that because that would be
2 a question for the Environment Department.

3 MS. YARBROUGH: Okay. Thank you.

4 That's all we had.

5 Thank you, Ms. Rose.

6 Thank you, Madam Hearing Officer.

7 HEARING OFFICER ORTH: All right. Thank you
8 very much.

9 MS. ROSE: Thank you.

10 HEARING OFFICER ORTH: Let me ask if there's
11 anyone on the platform who has a question of Ms. Rose
12 based on her testimony. Please put that question in the
13 chat.

14 And, Mr. Myers, please let me know if anyone
15 does that, and we'll wait for a moment. I will scan the
16 room in the event someone in the room has a question.

17 Oh, sir. Come up to the podium.

18 Give us your name first.

19 MR. PARKER: Sure. Tom Parker.

20 HEARING OFFICER ORTH: Go ahead.

21 CROSS-EXAMINATION

22 BY MR. PARKER:

23 Q. My question for Ms. Rose is whether livestock
24 grazing has been removed from the --

25 HEARING OFFICER ORTH: You have to speak into

1 the microphone.

2 MR. PARKER: Okay.

3 Q. My question for Mrs. Rose -- Ms. Rose is
4 whether livestock grazing has been removed from the
5 possible mining land uses.

6 A. I am really sorry, Mr. Parker. I'm -- I can't
7 hear you.

8 Q. Okay.

9 MR. MYERS: Let me adjust the --

10 MS. ROSE: Sorry.

11 HEARING OFFICER ORTH: Hold on one second.

12 MR. PARKER: Sure.

13 (Proceedings in brief recess.)

14 MR. PARKER: Third time's a charm.

15 Q. So I'm interested to know whether livestock
16 grazing has been removed from the PMLUs.

17 A. No. I believe it's still -- it's still in the
18 PMLU. It's -- wildlife habitat is kind of the main one
19 that lists front and center. I should have put that in
20 the presentation.

21 MR. PARKER: Thanks.

22 HEARING OFFICER ORTH: Mr. Myers, are there
23 any questions in chat?

24 MR. MYERS: There are no questions in chat.

25 There are two people that have spoken about

1 giving public comment, but not questions for Ms. Rose.

2 HEARING OFFICER ORTH: All right.

3 Ms. Rose, did you have anything to add to your
4 statement, or can we move on?

5 MS. ROSE: No. Thank you. Thank you, Madam
6 Hearing Officer.

7 HEARING OFFICER ORTH: Thank you very much.

8 I need to ask Mr. Myers a question, and I'm
9 sorry about the likely disruption here. He and I
10 continue to get these menacing messages about the IT
11 department from DOH going to seize control of our
12 laptops, the three that we're using, to update -- update
13 it or something, and that the deadline for that update
14 is 6:02. It's now 10 of 6:00.

15 Mr. Myers, how should we proceed?

16 MR. MYERS: I would suggest we take a break
17 close to six o'clock and go ahead and let it update,
18 because I don't see that it's going to give us a chance
19 to go past that deadline.

20 HEARING OFFICER ORTH: Okay. Same here.

21 Let me ask then, will there be any other
22 testimony from the Division?

23 MR. WADE: No, Madam Hearing Examiner. Thank
24 you.

25 HEARING OFFICER ORTH: Thank you, Mr. Wade.

1 In that case, I did see in the chat that
2 Mr. de Saillan wanted to offer comment.

3 Mr. Myers, would you unmute or elevate
4 Mr. de Saillan.

5 MR. MYERS: Yes.

6 You should have control of your microphone,
7 Mr. de Saillan.

8 HEARING OFFICER ORTH: I believe,
9 Mr. de Saillan, you've unmuted yourself.

10 Can you hear me?

11 MR. DE SAILLAN: Yes, I can.

12 HEARING OFFICER ORTH: Oh, you're coming
13 through loud and clear.

14 MR. DE SAILLAN: It's me.

15 HEARING OFFICER ORTH: Thank you.

16 MR. DE SAILLAN: Okay.

17 HEARING OFFICER ORTH: Do you swear or affirm
18 to tell the truth?

19 MR. DE SAILLAN: I do.

20 HEARING OFFICER ORTH: Thank you.

21 Please go ahead.

22 MR. DE SAILLAN: Thank you very much.

23

24

25

1 CHARLES DE SAILLAN

2 having been first duly sworn or affirmed, gave
3 public comment as follows:

4 PUBLIC COMMENT

5 MR. DE SAILLAN: Good evening, Madam Hearing
6 Officer, and good evening to the staff of the Mining and
7 Minerals Division.

8 Appreciate the opportunity to comment here
9 today.

10 My name is Charles de Saillan, and I'm here to
11 comment on the proposed so-called pit waiver for the
12 open pit at the former LAC Minerals Cunningham Mine in
13 Santa Fe County.

14 And, Madam Hearing Officer, I'd like -- like
15 to ask your indulgence if I -- if I could. My comments
16 are going to take a little bit more than five minutes,
17 but I promise you that they will take less than 10
18 minutes, and I just want to make sure that's okay.

19 HEARING OFFICER ORTH: Yeah. It says our
20 computers are going to shut down in about nine minutes.
21 So if we lose you, when we come back on, you can finish,
22 but please make the best use of this time.

23 MR. DE SAILLAN: I will do that. Thank you
24 very much.

25 So I'm an environmental lawyer located here in

1 Santa Fe. And I've lived in Santa Fe County since 1993,
2 for almost 30 years, and I've enjoyed and I continue to
3 enjoy engaging in recreational activities in the hills
4 and mountains around Santa Fe, and that includes hiking
5 and bike riding and skiing. So I have a personal
6 interest in this proceeding.

7 And in my practice as an environmental lawyer,
8 I have represented clients on many proceedings involving
9 hardrock mining operations. I worked for six years at
10 the Office of the Attorney General where I represented
11 the Environment Department and the Office of the Natural
12 Resources Trustee on a number of mining proceedings. I
13 worked for the New Mexico Environment Department for 14
14 years, and approximately a quarter to a third of my work
15 at the Environment Department involved hardrock mines.

16 I've represented clients in proceedings
17 involving the old Tererro mine north of Pecos, the
18 Molycorp mine near Questa, the Tyrone, Chino and Cobre
19 mines in Grant County, the proposed Copper Flat mine
20 near Hillsboro, the proposed New World Cobalt mine near
21 Pecos, and this, the Cunningham Hill Mine.

22 So I have considerable experience with mining
23 issues, mostly representing regulatory agencies.

24 And this evening I'm commenting on my own
25 behalf.

1 Now, under the New Mexico Mining Act, the
2 owner and operator of a hardrock mine must prepare a
3 Closure/Closeout Plan to close and reclaim the mine
4 after mining operations cease. The mine must provide
5 for a postmining land use and a re-establishment of a
6 self-sustaining ecosystem at the mine site.

7 Now, the Mining Act does allow the Mining and
8 Minerals Division director to approve a waiver from this
9 requirement for an open pit or other mine unit if it's
10 not technically or economically feasible or if it's
11 environmentally unsound.

12 But there is an important caveat. The
13 director can approve a waiver only, and I quote here
14 from the Mining Act, if measures will be taken to ensure
15 that the open pit or waste unit will meet all applicable
16 federal and state laws, regulations and standards for
17 air, surface water and groundwater protection following
18 closure and it will not pose a current or future hazard
19 to public health or safety.

20 And that is from Section 69-36-11B of the New
21 Mexico Statutes Annotated.

22 Now, here LAC Minerals is seeking a waiver
23 from these requirements to the open pit at the
24 Cunningham Hill Mine. Now, I do not oppose the waiver,
25 but I believe that it is absolutely essential that the

1 director impose appropriate conditions on his approval,
2 assuming he approves the pit waiver. And I recommend
3 four categories of conditions.

4 First, there must be continued monitoring of
5 the site. And this -- this needs to include monitoring
6 of water quality for the foreseeable future. Monitoring
7 for hexavalent chromium, which is the more toxic and the
8 more bioavailable form of chromium, should be required
9 in addition to monitoring of total chromium. There also
10 needs to be monitoring of the other mine features,
11 particularly the covers on the waste rock piles.

12 Second, there must be treatment of
13 contaminated water. Currently the pit lake exceeds
14 water quality standards for sulfate and total dissolved
15 solids. Other contaminants may become a problem over
16 time due to evapoconcentration or due to normal erosion
17 of the pit walls.

18 Third, there must be continued maintenance.
19 Obviously, a water treatment system must be maintained,
20 but the covers and the other reclamation components must
21 also be maintained. The covers must be maintained to
22 ensure that they are not thinned by erosion. The
23 vegetation in the covers must be maintained to promote
24 stability and evapotranspiration. And the stormwater
25 controls must be maintained to prevent erosion.

1 Fourth, there must be adequate financial
2 assurance to ensure that there is funding -- adequate
3 funding for water treatment, monitoring, maintenance and
4 any necessary repairs. The financial assurance needs to
5 cover a period of at least 100 years into the future,
6 and it must be adequate to repair or address any
7 potential failures in the closure plan.

8 And I also wanted to second the request that
9 the public be given an opportunity to comment on LAC's
10 responses to MMD's requests.

11 And then a final point that I want to stress
12 is the future effects of climate change. The climate
13 models predict that the climate of New Mexico will
14 become warmer and drier in the coming decades due to
15 climate change. More of our precipitation will come in
16 increasingly violent summer thunderstorms rather than in
17 winter snowstorms. And the result of warmer
18 temperatures will likely be more evaporation from the
19 pit, and that means more evapoconcentration of
20 contaminants.

21 The result of more violent summer storms will
22 likely result in greater erosion of covers and greater
23 erosion of the pit walls. And under the Governor's
24 executive order on climate change, all state agencies
25 must evaluate the impacts of climate change on their

1 programs and operations. They must also integrate
2 climate change mitigation and adoption practices --
3 adaptation practices into their programs and operations.

4 This is Executive Order 2019-003, entitled
5 Executive Order on Addressing Climate Change and Energy
6 Waste Prevention, and it's dated January 29, 2019.

7 And of course, the Hearing Officer has the
8 authority to take administrative notice of an executive
9 order of the state just like she can take administrative
10 notice of rules, regulations and statutes.

11 That concludes my comments, and again I want
12 to thank you very much for the opportunity to speak here
13 tonight.

14 HEARING OFFICER ORTH: Thank you very much,
15 Mr. de Saillan.

16 At this point I would be happy to take
17 additional public comment, but we must get off the
18 platform in order to allow our -- these mandatory
19 updates to the laptops we're using from the Department
20 of Health.

21 So please rejoin us. I'm not sure if it will
22 be 10 minutes. It might be 15 minutes. But we will get
23 back on the platform as soon as we can.

24 Thank you.

25 MR. MYERS: And the WebEx will continue

1 because we have a co-host offsite. Even when we leave,
2 we'll actually be able to -- participants can stay on.
3 They will be just waiting to resume.

4 HEARING OFFICER ORTH: Can folks hear that you
5 said that, or should I repeat that?

6 MR. MYERS: You could repeat it just to be
7 clear.

8 HEARING OFFICER ORTH: Okay. I'm going to
9 repeat what Mr. Myers just said. Because we have an
10 offsite co-host, the WebEx session will actually
11 continue. It's just that Mr. Myers and I won't be able
12 to be with you while these machines are updating. So
13 you don't have to get off the platform.

14 Thank you.

15 (Proceedings in recess from 6:04 p.m. to
16 6:21 p.m.)

17 HEARING OFFICER ORTH: Let's come back from
18 the break, please.

19 All right. If you have time constraints and
20 by virtue of those time constraints would need to offer
21 your public comment sooner rather than later, there will
22 be three or four opportunities this evening to offer
23 public comment. But if you have time constraints and
24 need to offer it sooner, please say something in the
25 chat, and Mr. Myers will convey that to me.

1 In the meantime, I'm going to invite the NMED
2 representative, Anne Maurer, to the podium to address, I
3 believe, an earlier question or questions related to
4 Ms. Rose's testimony.

5 Ms. Maurer, would you raise your right hand.

6 Do you swear or affirm to tell the truth?

7 MS. MAURER: I do.

8 HEARING OFFICER ORTH: Thank you.

9 Go ahead.

10 ANNE MAURER

11 having been first duly sworn or affirmed, was
12 examined and testified as follows:

13 DIRECT TESTIMONY

14 MS. MAURER: Good evening, everyone, Madam
15 Hearing Officer.

16 I am Anne Maurer with the New Mexico
17 Environment Department, and I work in the Mining
18 Environmental Compliance Section of the Ground Water
19 Quality Bureau.

20 And I know pretty much everybody in here.
21 We -- I'm the de facto groundwater permit lead for
22 Cunningham Hill. We've had a series of staff members
23 who have left the Department, and so I've stepped in
24 to -- to take over and manage the groundwater discharge
25 permit for Cunningham Hill at this point and work very

1 closely with Ms. Rose.

2 As you all know, Cunningham Hill is regulated
3 under the Water Quality Act in addition to the Mining
4 Act.

5 We have groundwater Discharge Permit 55,
6 DP-55, which covers essentially the waste rock pile, the
7 residue pile, and all the water management systems
8 associated with that. It also covers abatement specific
9 to the waste rock pile discharges and the residue pile
10 discharges.

11 And we also have Abatement Plan 27, which is
12 specific to the open pit, open pit waterbody, and
13 groundwater that is downgradient of the open pit.

14 And, you know, given that this is a Mining Act
15 hearing, I'm more than happy to -- to answer, you know,
16 general questions as they pertain to the
17 Closure/Closeout Plan, but any more specific questions,
18 please just reach out to me directly to talk about the
19 groundwater discharge permit and the abatement plan.

20 However, that being said, I think there were
21 two questions specific to the ponds, and -- well, let me
22 just back up.

23 So we hold joint financial assurance with MMD
24 that cover the costs for -- that are covered under the
25 Closure/Closeout Plan, for activities and facilities

1 that need to be closed under the CCP.

2 We also hold our own financial assurance for
3 abatement activities under AP-27. And I think that
4 that's really important, because we will continue to
5 hold financial assurance specific to AP-27 until the
6 point at which standards are met.

7 So, you know, we will hold financial assurance
8 associated with the Closure/Closeout Plan until
9 standards are met under the -- the discharge permit, and
10 we will also continue to hold financial assurance under
11 the abatement plan until the point at which standards
12 are met. And I think that's really important, that, you
13 know, the discharge permit is not going away, and the
14 abatement plan is not going away. You know, we are not
15 relinquishing our authority under the Water Quality Act.

16 So to answer specific questions in regards to
17 the ponds, we renewed DP-55 in 2020, and there's a
18 condition in DP-55 that required LAC to provide
19 essentially a pond liner evaluation and also work plan
20 to address long-term liner integrity in addition to
21 sludge removal.

22 We are still in the process of reviewing that
23 work plan. We received it in 2021 and are still in the
24 process of reviewing that. So we have not approved that
25 at this point. So those -- the elements of -- of the --

1 of pond maintenance are definitely covered under DP-55
2 and are also addressed under the CCP cost estimate. And
3 we've also made a number of comments in regards to the
4 cost estimate.

5 So I think -- I think that's all.

6 HEARING OFFICER ORTH: All right. Hold on
7 just a minute.

8 If you are on the platform and you would have
9 a question of Ms. Maurer, please put it in the chat.

10 In the meantime, I will scan the room and see
11 if there's anyone in the room who has a question of
12 Ms. Maurer.

13 Mr. Myers.

14 MR. MYERS: Ms. Rachel Conn has raised her
15 virtual hand.

16 HEARING OFFICER ORTH: All right. If you
17 would unmute her, then, and --

18 MR. MYERS: She's able to control her
19 microphone, she says.

20 HEARING OFFICER ORTH: All right.

21 Ms. Conn, if you can hear me, please go ahead.

22 MS. CONN: Great. Thank you, Ms. Hearing
23 Officer.

24 I actually don't have a question for
25 Ms. Maurer. I just -- the chat function doesn't seem to

1 be working for us any longer. It was working. I was
2 just trying to indicate I wanted to make a public
3 comment and I do have a time constraint. Sorry to
4 interrupt now, but I -- we can't seem to get on the chat
5 to make that.

6 HEARING OFFICER ORTH: All right. We will go
7 about figuring that out. I'm not sure what happened
8 during our little interlude there.

9 So if you would just hang on one minute while
10 I just make sure that no one has a question of
11 Ms. Maurer.

12 MS. CONN: Thank you, Ms. Hearing Officer.

13 HEARING OFFICER ORTH: Anything, Mr. Myers?

14 MR. MYERS: (Shakes head.)

15 HEARING OFFICER ORTH: No. All right.

16 MR. MYERS: No, Madam Hearing Officer.

17 HEARING OFFICER ORTH: So thank you very
18 much --

19 MS. MAURER: Thank you.

20 HEARING OFFICER ORTH: -- Ms. Maurer.

21 And, Ms. Conn, if you would raise your right
22 hand.

23 Do you swear or affirm to tell the truth?

24 MS. CONN: I do.

25 HEARING OFFICER ORTH: Thank you.

1 Go ahead.

2 RACHEL CONN

3 having been first duly sworn or affirmed, gave
4 public comment as follows:

5 PUBLIC COMMENT

6 MS. CONN: Good evening, Madam Hearing
7 Officer and members of the public and agencies here
8 tonight.

9 Thank you for the opportunity to comment this
10 evening.

11 My name is Rachel Conn, and I'm the deputy
12 director for Amigos Bravos. We're a statewide water
13 conservation organization dedicated to protecting and
14 restoring the waters of New Mexico. Amigos Bravos has
15 been engaged in mining issues in New Mexico since our
16 founding in 1988, and we appreciate the opportunity to
17 engage here this evening.

18 One area in terms of mining oversight that we
19 have consistently engaged in over the years is financial
20 assurance and financial assurance requirements.

21 Adequate financial assurance is essential to protect New
22 Mexico's water and land and communities, as well as New
23 Mexico's taxpayers, to protect New Mexico's taxpayers
24 from liability risks.

25 If there's not adequate financial assurance,

1 the public and our environment ultimately pays the bill
2 either in the form of impacts to our resources or in the
3 form of a financial liability to cover reclamation and
4 closure and cleanup costs.

5 We urge MMD here tonight to demand the most
6 protective cost estimates for the Cunningham Hill
7 financial assurance, and we believe that a protective
8 approach is necessary because of the large amounts of
9 uncertainties and variables associated with determining
10 cost estimates.

11 Also it's my understanding that the current
12 Closure/Closeout Plan depends on a 1994 study to
13 determine both pit wall stability and financial
14 assurance needs. And a lot has changed since 1994 --
15 sometimes it feels like we're living in a totally
16 different world -- including the increase -- increased
17 climate variability associated with climate change as --
18 as a big factor that -- that has changed since 1994, the
19 understanding of those impacts and -- and how that could
20 impact a mine site and the need for additional
21 reclamation and closeout/closure requirements.

22 We believe that additional studies should be
23 required to determine the risks of pit wall failure and
24 whether the financial assurance is adequate.

25 Finally, we request that additional monitoring

1 requirements that address both groundwater and surface
2 water impacts as well as treatment of contaminated
3 water -- that the requirements for treatment of
4 contaminated water must be included in the final
5 closure/closeout plan.

6 And with that, I conclude my public comment.

7 Thank you so much for the opportunity.

8 HEARING OFFICER ORTH: Thank you very much,
9 Ms. Conn.

10 If you are on the platform and have a time
11 constraint and would like to offer your public comment
12 now instead of just a little bit later, please raise
13 your hand or put something in the chat.

14 Mr. Myers?

15 MR. MYERS: I don't see any hands raised.

16 HEARING OFFICER ORTH: Okay.

17 MR. MYERS: I'll check on the chat to see if
18 there's still a problem.

19 HEARING OFFICER ORTH: Yeah. If you would
20 please check out the privileges assigned to participants
21 and panelists and just make sure that they can chat at
22 least with the host, if you would, please.

23 In the meantime, we're going to turn to LAC
24 Minerals and Mr. Indall.

25 MR. INDALL: We have -- thank you, Madam

1 Hearing Officer.

2 We have two witnesses that will testify as a
3 panel, Mr. Lattin and Mr. Finch.

4 HEARING OFFICER ORTH: All right. Thank you.
5 Mr. Lattin and Mr. Finch, if you would raise
6 your right hand.

7 Do you and each of you swear or affirm that
8 you will tell the truth?

9 MR. LATTIN: I do.

10 MR. FINCH: I do.

11 HEARING OFFICER ORTH: Thank you. That was
12 both of you.

13 Whoever is going to go first can come up to
14 the podium. The auditorium isn't the best setup for
15 panel examination, but we're going to make it work.

16 Mr. Lattin.

17 DANIEL D. LATTIN

18 having been first duly sworn or affirmed, was
19 examined and testified as follows:

20 DIRECT TESTIMONY

21 MR. LATTIN: Okay. Good evening, Madam
22 Hearing Officer and members of the audience virtual and
23 in attendance tonight.

24 My name is Daniel Lattin. I'm a senior
25 program manager for Barrick Gold of North America,

1 speaking on behalf of LAC Minerals.

2 And I'll just give it a moment for Kevin to
3 pull up the presentation.

4 MR. MYERS: Sorry for the delay. It seems to
5 have wiped our restart files off. Now they're back.

6 And would you like Exhibit 1?

7 MR. LATTIN: Yes, please.

8 Okay. Thank you, Kevin.

9 If you could please advance to the first
10 slide.

11 Okay. So I'll be providing an overview
12 tonight of the site, starting with the history, the site
13 features that, you know, are basically the units that we
14 manage, the regulatory oversight, the reclamation work
15 that has been done, and then the path forward to
16 finalize the reclamation.

17 So this site has a really rich history in
18 mining. As a matter of fact, that Santa Fe County had
19 the first western gold rush rather than California
20 Sutter's Mill, and that occurred in the early 1920s,
21 when gold was discovered by Mexican citizens.

22 By 1865 the first stamp mill was operating,
23 along with Thomas Edison's mill constructed later in
24 1898.

25 As that is very historic, today then the focus

1 of our activities at the site really focuses on the
2 modern day mining that occurred from 1979 to 1987.

3 So the site is located on approximately 3,000
4 acres of private land at an elevation of 7,000 feet.
5 But originally the mine boundary that was permitted was
6 around 4,350 acres of land. However, Barrick donated
7 1,300 acres to the Santa Fe Botanical Garden for the
8 Ortiz Mountains Educational Preserve.

9 While the mine was developed and operated in
10 1979 through 1987, waste rock materials were placed in
11 the Dolores Gulch, which formed the waste rock pile,
12 which I'll be speaking to. Ore mined from the open pit
13 was crushed and placed on an impervious asphalt leach
14 pad where it was leached with a dilute cyanide solution
15 to extract recoverable gold. At that time the spent ore
16 was then rinsed with freshwater and relocated to the
17 residue pile.

18 LAC Minerals was acquired by Barrick in 1994,
19 and it's notable that was seven years after mining
20 ceased. So since that time Barrick's involvement in
21 this property has been solely focused on reclamation of
22 the site.

23 Next slide, please.

24 So here's an overview of the site facilities.
25 So moving from left to right on the photo, you can see

1 the open pits. Above that is the water treatment
2 evaporation ponds which sit on top of the waste rock
3 pile, and below the waste rock pile are the seepage
4 collection ponds.

5 Next is the ore treatment unit, where the ore
6 was leached -- the recoverable gold was leached out of.
7 And then once it was rinsed it was moved to the residue
8 pile down at the bottom right-hand side. Then the
9 office, which is an industrial postmining land use, is
10 shown there in red.

11 Next slide, please.

12 So for regulatory oversight, I understand this
13 is a Mining Act hearing, but I think it's important to
14 point out the regulatory oversight and then what we do
15 to maintain compliance with those agencies.

16 So first we're regulated by NMED under
17 Discharge Permit DP-55, and that's for the waste rock
18 pile and the residue pile.

19 NMED Abatement Plan AP-27 regulates the open
20 pit.

21 Mining and Minerals Division, as we're here
22 tonight to talk about, is SF002RE, and that's for
23 reclamation of surface disturbance.

24 But we also hold permits with the New Mexico
25 Office of State Engineer for our water rights and the

1 EPA for our open pit discharge permit as well as the
2 national stormwater discharge permit.

3 So each one of those regulatory agencies or
4 oversight we do have regulatory reporting to ensure that
5 we are compliant with the terms and conditions of those
6 permits.

7 So first for NMED DP-55 we have quarterly
8 groundwater monitoring of 27 wells and three springs, we
9 have monthly inspections, and then we report out to the
10 agency and the public quarterly in -- I mean in reports
11 quarterly and annually.

12 For Abatement Plan Number 27 for the open pit,
13 we perform quarterly groundwater monitoring of four
14 wells and various open pit depth sampling, and that is
15 reported in quarterly reports.

16 And last but not least, we have the New Mexico
17 Mining and Minerals Division where we perform poststorm
18 events inspections, where if we get heavy precipitation
19 events, we go out and take a look for erosion or
20 rilling. We have monthly inspections, and then lastly
21 we have annual inspections. And all of that information
22 is put into an annual report for the agencies and public
23 consumption.

24 Next slide, please.

25 So for reclamation history, since we are here

1 for a Mining Act hearing, mining concluded in 1987 which
2 created a total disturbance of about 363 acres.

3 Successful reclamation of the facility, like I
4 said previously, occurred in the mid-1990s, after
5 Barrick acquired LAC.

6 At that time reclamation was recognized by the
7 New Mexico Mining and Minerals Division Excellence in
8 Reclamation Awards in 1996 and 1998. And I think you're
9 going to see the pictures that I show, it was very
10 successful.

11 Thus far of the 332 acres to be reclaimed,
12 approximately 326 acres have been reclaimed. So that
13 represents a 98 percent completion.

14 So now I'm going to step through each of the
15 major facilities and talk specifically about what was
16 done for reclamation.

17 So for the open pit approximately 34 acres
18 were disturbed from mining, and about 15 acres have been
19 successfully reclaimed thus far.

20 So in accordance with the state-approved
21 reclamation plan, reclamation activities have created a
22 stable and steady-state condition. Those activities
23 included but are not limited to exclusion berms and
24 fencing, source controls reducing acid wall seeps, storm
25 controls reducing acid wall seeps, and periodic water

1 treatment.

2 And really what this is resulted is it's
3 resulted in a condition where the open pit is compliant
4 with AP-27 surface water standards.

5 These are photos. On the left you can see in
6 1996 the areas that were to be reclaimed. And then on
7 the right you can see that this year -- you can see the
8 effects of that reclamation, and you can see the stable
9 surface as well as the vegetation growth.

10 So for the open pit specifically, the previous
11 closure plan projected a stormwater would fill the pit
12 to an elevation of approximately 6,945 feet above sea
13 level, which would inundate a significant portion of the
14 pit vertical walls and the benches. This plan was based
15 upon precipitation data of the time, which is pre-1998,
16 which represented an annual precipitation of 17 inches
17 and also past watershed conditions.

18 So what we see today, the present steady-state
19 surface water elevation is approximately 6,795 feet,
20 which is significantly lower than previously
21 anticipated. Changes in the climate have been observed
22 as the 1998 through 2021 average annual precipitation is
23 approximately 13 inches and the watershed vegetation is
24 significantly different.

25 So what does this mean really? What it means

1 is that the original plan -- we had to take a fresh look
2 at it, because what -- what's become apparent is that
3 the pit has not and is likely not to fill to the 6,945
4 as predicted in the previous plan. So what that leaves
5 is an area of pit walls and benches that will not be
6 covered by water as planned.

7 So as a result of this, an analysis has been
8 performed to look at alternate reclamation for these
9 areas.

10 Four reclamation options for achieving a
11 postmining land use for self-sustaining ecosystem have
12 been evaluated. Each option was evaluated for technical
13 feasibility, economic feasibility, and environmental
14 soundness in accordance with the Mining and Minerals
15 Division regulations and the Mining Act.

16 The table in the bottom right-hand side of the
17 slide shows those options.

18 So the first was the original plan to fill
19 with stormwater, which now has become apparent it is not
20 technically feasible, but it is economically and
21 environmentally sound.

22 Next it would be to fill with groundwater,
23 which is not technically feasible, not economically
24 feasible, and not environmentally sound.

25 Each one of the alternatives we evaluated, as

1 you can see, partial backfill of the pit, backfill of
2 the pit to the 6,945 elevation or backfill -- full
3 backfill of the pit to the 6,990 are all not technically
4 feasible, nor economically feasible, nor environmentally
5 sound. So that's what led us to the pit waiver in
6 accordance with the regulation.

7 So a pit waiver is necessary because a
8 self-sustaining ecosystem is not technically --
9 technically -- excuse me -- technically or economically
10 feasible and is environmentally unsound for water
11 surface, vertical rock walls and benches. The area of
12 these vertical rock walls, benches and the pit water
13 surface is three acres and 16 acres, so a total of
14 approximately 19 acres, as conceptually shown below.

15 So in the bottom right figure you can see that
16 there's the previous closure plan projected water
17 surface, and then the light area is the areas that have
18 not been or will not be inundated by water. So the pit
19 waiver only modifies the requirement for physical
20 reclamation of surface disturbance area.

21 And it's important to note, as NMED spokesman
22 here said, that water quality will continue to be
23 regulated and maintained to meet the NMED AP-27
24 requirements.

25 So moving on to the waste rock pile,

1 approximately 72 acres were disturbed, and about 68
2 acres have been successfully reclaimed.

3 So in accordance with the state-approved
4 reclamation plan, those activities have created a stable
5 and a steady-state condition. They include the
6 interceptor wall and treatment system to capture and
7 treat any impacted waters, recontouring, cover placement
8 and revegetation of the surface, which included planting
9 approximately 15,800 tree and seed -- shrub seedlings,
10 design and implementation of stormwater diversions and
11 controls, and lastly the Dolores Gulch residual
12 groundwater plume cleanup.

13 The result that we see from these activities
14 is a successful revegetation and DP-55 compliant
15 facility with diminished impacted water flows.

16 On this slide it shows a progression of the
17 revegetation of the facility from 1995 through 2000,
18 2006, and then this year's photo on the far right. The
19 photo on the far right does show successful
20 revegetation, an important viewshed as the trees have
21 come back and it's blended into the natural viewshed.

22 Moving on to the ore treatment unit and
23 surface facilities, approximately 75 acres were
24 disturbed, and 75 acres have been successfully
25 reclaimed.

1 In accordance with the state-approved
2 reclamation plan and -- reclamation activities performed
3 have created a stable and steady-state condition. That
4 included demolition and removal of the crushing
5 facility, ore conveyor system, process plant, and
6 asphalt heap leach pad, removal of impacted subsoils,
7 recontouring and cover placement and revegetation, in
8 addition to stormwater controls and diversions.

9 And the result is that this area has been
10 released by Mining and Minerals Division.

11 Again you can see the progression and the time
12 lapse photos from 1995 to 2000 and 2022.

13 For the residue pile approximately 49 acres
14 were disturbed, and 49 acres have been successfully
15 reclaimed.

16 In accordance with the state-approved
17 reclamation plan, those activities included
18 recontouring, cover placement and revegetation,
19 stormwater diversions and controls, and an accelerated
20 cleanup of the residual groundwater plume, which
21 continues to be regulated under DP-55.

22 As a result this area is reclaimed and
23 released by Mining and Minerals Division.

24 Once again you can see the progression from
25 1995 on the left, 2000 on the bottom in the middle, and

1 then this year in the upper right-hand corner.

2 So you can see here just looking at the site
3 facilities again is that it should be very apparent that
4 the site is reclaimed to about 98 percent. And so
5 really all that's left are the ponds and the pits and
6 some of the treatment facilities associated with the
7 ponds.

8 So, you know, we need to look forward on
9 what's left, what activities do we need to -- to
10 complete to close this site up.

11 So for the open pit we're in accordance with
12 the Mining and Minerals regulations of pit waiver for
13 surface reclamation, water treatment, and maintenance of
14 the source controls at the open pit as needed
15 periodically.

16 And for the waste rock pile reclamation of the
17 water treatment ponds, which are about four acres, the
18 Dolores Gulch residual groundwater plume cleanup,
19 maintenance of the cover as needed, and then reclamation
20 of the ARD treatment system and associated ponds, about
21 two-and-a-half acres.

22 And for the residual pile reclamation of the
23 residual plume remediation, as well as the ponds that
24 are associated with that plume cleanup.

25 I think it is worth pointing out that many of

1 these activities are related to NMED requirements under
2 DP-55 and AP-27. So for the Mining Act it's important
3 to show that approximately six acres of reclamation is
4 required at this site.

5 Next slide, please.

6 And last but not least, I think with the fire
7 season that New Mexico experienced this year, it's
8 important to point out, and I'm proud to say, that the
9 folks before me at the site had the foresight to see
10 that the watershed and the forest had been overgrown.
11 So we have invested voluntarily into a forest management
12 plan, which is really there to enhance the stand
13 composition, return the ecosystem to a functioning
14 habitat for, you know, wildlife, and, you know, I think
15 we're all aware of this year, to reduce the risk of
16 uncharacteristic fire.

17 And I'm proud to say that over 200 acres have
18 been thinned in the past several years, and we'll be
19 continuing that program in the coming years.

20 And I think that concludes my testimony.

21 HEARING OFFICER ORTH: All right. Thank you,
22 Mr. Lattin.

23 I'll invite questions of you after we've heard
24 from Mr. Finch.

25 MR. LATTIN: Thank you.

1 STEVEN T. FINCH, JR.

2 having been first duly sworn or affirmed, was
3 examined and testified as follows:

4 DIRECT TESTIMONY

5 MR. FINCH: Madam Hearing Officer, can you
6 hear me?

7 HEARING OFFICER ORTH: Yes, I can.

8 MR. FINCH: Thank you.

9 I'm waiting for Kevin to load up my
10 presentation.

11 Oh, there we go.

12 HEARING OFFICER ORTH: Go ahead.

13 MR. FINCH: Thank you.

14 I'm going to kind of echo some of the stuff
15 that Daniel just testified to, but maybe in a little
16 more technical detail on a few items.

17 So if we can go to the next slide, Kevin.

18 First I'd like to just briefly go over some of
19 my experience or expertise. I have a bachelor of
20 science and master of science in geology. I have two
21 professional -- or I have a professional certification
22 from the American Institute of Professional Geologists,
23 and I'm a registered professional geoscientist.

24 My relevant experience, I've had 32 years of
25 actually a wonderful career at John Shomaker &

1 Associates as a hydrogeologist-geochemist. I was on the
2 Copper Rule Technical Advisory Committee. And at the
3 Cunningham Hill Mine Reclamation Project, which is that
4 acronym CHMRP, I've been working out there since 1991,
5 so for quite a few years.

6 More details on my experience can be found in
7 my resume, which is in Exhibit 4, I believe.

8 All right. Next slide, please.

9 Okay. We've seen this map this evening. This
10 is a map of the Cunningham Hill Mine Reclamation Project
11 site showing the facilities that have been talked about
12 for the update Closure/Closeout Plan under Mining and
13 Minerals Division Permit SF002RE.

14 And I just want to point out again to show you
15 that the areas that have been reclaimed and released are
16 in the more gold color, and then -- but the focus of
17 what I want to talk about are in the green and blue and
18 then some of the other identified smaller facilities
19 like the ponds.

20 Here is a table of the reclamation areas, and
21 these areas are summarized in the updated
22 Closure/Closeout Plan under Table 1, I believe it is.
23 And I'm not going to go into detail here, but there is
24 one number that we'll be discussing in more detail, and
25 that's the acres for requested pit waiver, which is

1 19.37 acres. And I'll explain the areas under that
2 19.37 acres here in a little bit.

3 Next slide, please.

4 The key references are, obviously, the --
5 these are covers for various reports in the updated
6 Closure/Closeout Plan. On the far left is the updated
7 Closure/Closeout Plan cover, and then appended within
8 that document is evaluation of the open pit for the
9 Closure/Closeout Plan and Abatement 27. And then on the
10 right is the -- the open pit waiver justification
11 report, which is also appended in the updated
12 Closure/Closeout Plan.

13 So from here on out I'll talk about four
14 topics, the open pit reclamation, the waste rock pile
15 reclamation, site-wide monitoring, and then the
16 Closure/Closeout Plan update.

17 For the open pit, I just would like to point
18 out there are -- we have 35 years of data, which is a
19 really nice data set to work with, and I believe it's --
20 that's since mining stopped, 35 years.

21 Next.

22 So here's a map just to give you a little
23 geographic background of -- a little bit different from
24 the other maps provided today.

25 On the gold stars you'll see the local

1 communities of Cerrillos and Madrid, and Highway 14,
2 which is south of us here from where we are in Santa Fe.
3 There's County Road 55, which goes south from Cerrillos
4 to the property, which is called -- the label is LAC
5 property boundary. You can see the Ortiz Mountains
6 Educational Preserve, that part that was donated to the
7 county.

8 There's another little outline there you see
9 called Upper Cunningham Gulch watershed. That is the
10 watershed that currently flows into the open pit, which
11 is labeled there as open pit. The box which is labeled
12 AP-27 model area, that is the model that was used for
13 the abatement plan and also to demonstrate that any
14 plume from the open pit would remain within the property
15 boundary.

16 Okay. Next.

17 Okay. A few more features for the open pit.
18 You can see the open pit there on kind of the lower
19 left-hand corner, and there's a dashed line running
20 through it. That dashed line is called the Golden fault
21 zone. This is a key feature that created the ore body
22 there at the open pit where gold was mined out.

23 I'm going to also -- let's see -- go to the
24 next slide -- have a little blow-up of this so we can
25 look closer at the open pit.

1 There you go. Thank you.

2 And in the lower left-hand corner you can see
3 where it's labeled Upper Cunningham Gulch, and that's
4 stormwater that if it does flow would flow into the open
5 pit.

6 There are several wells there labeled. Some
7 are related to DP-55, and others are part of the AP-27
8 abatement plan.

9 So -- and what happened here when the mine
10 started, there was a well in the middle where it's
11 labeled open pit, and that well was used to dewater for
12 mining. And then the other wells were added,
13 particularly the one to the south labeled PW77-1. And
14 those two wells actually had fairly good capacity
15 because the open pit is actually a retro pipe where the
16 ore body is fractured.

17 Can you go to the next dongle, it should bring
18 something -- there you go. Thank you.

19 There is a coverage here I just put up over
20 that map, and that's the fractured area of the ore body
21 that lines up with the Golden fault zone. So when
22 dewatering occurred, it occurred locally within that
23 area, and rocks around that shaded gold area are low
24 permeability, were not as affected by dewatering.

25 Okay.

1 There are two places where acid wall seeps
2 emerged after mining.

3 And on the right-hand side you can see the
4 aerial image of the open pit, and you see two red
5 arrows. Those red arrows represent where stormwater was
6 going in two different routes to the pit walls and then
7 reporting at the pit wall as an acid wall seep.

8 On the left-hand side you can see the photos.
9 The upper photo shows stormwater running off from the
10 upper bench going to a lower bench and then it would
11 seep in. That's where the small red arrow is. That's
12 the same location as that photo.

13 And then the larger red arrow is a flow path
14 that occurred subsurface. From where that little blue
15 area is outlined at the beginning of the red arrow,
16 that's where water used to -- stormwater used to seep
17 in, and then it would flow underground through the
18 fracture system and report in the wall, as shown in that
19 photo in the lower left-hand in the green area.

20 So it took us a while to figure out the
21 mechanisms for -- for acid wall seeps for those two
22 locations.

23 I'd like to go to the next slide.

24 The original plan was to flood out those acid
25 wall seeps to some elevation above that with stormwater

1 from Upper Cunningham Gulch as represented by that blue
2 shaded area overlying the pit.

3 Next slide, please.

4 So as part of AP-27, there were source
5 controls that need to be implemented to improve water
6 quality, and those source controls -- I have outlined
7 them here. There were five of them.

8 There were repairs to the Upper Cunningham
9 Gulch where it was seeping -- where stormwater was
10 seeping underground before it got to the open pit.

11 There were stormwater controls for the
12 receiving runoff area west of the pit.

13 And there were in pit stormwater controls to
14 keep stormwater off the benches and -- and roads.

15 There were repairs to access roads by
16 installing caliche base.

17 And there was also a caliche cap on one of the
18 largest remaining bench areas.

19 So -- pardon me. Sorry about that.

20 Next slide, please.

21 So these are photos of the reclamation areas
22 to mitigate the acid wall seeps.

23 The upper left-hand photo is the stormwater
24 grate that was installed for the pit watershed area to
25 the west that collects stormwater, and then it directly

1 sends it to the pit waterbody as clean water.

2 And then the upper right are the Upper
3 Cunningham Gulch diversion repairs. And you can see a
4 nice new liner there with -- that's been properly placed
5 to convey stormwater to the open pit.

6 The lower left is a photo of repairs to the
7 diversion structure that quantifies the amount of water
8 going to the open pit. So you see that's a rectangular
9 weir with a V notch weir installed in it.

10 And then the photo on the lower right shows
11 that northeast upper bench that was reclaimed with
12 caliche, and a drain was put in on that, too. And in
13 the background of that photo you can see the caliche
14 surface on the access road going down into the pit.

15 Next slide, please.

16 So I want to kind of briefly go over open pit
17 wall stability.

18 There is the Call & Nichols (verbatim) report
19 from 1994 that basically said the rock is competent and
20 will remain in a stable condition. That was quite some
21 time ago, I do agree. Back to our 35 years of data, we
22 have been -- I have been out there many times over this
23 time period, have not seen any signs of unravelling
24 or -- or failure of a -- of the -- of the pit walls.

25 So I think the reason for that is because the

1 initial geotechnical evaluation was -- was partly -- was
2 correct.

3 But also in addition there have been
4 reclamation efforts that have stabilized the south and
5 west slopes.

6 The stormwater controls put in limit
7 weathering and slope failure.

8 And we have stability even after what I call a
9 100-year event that happened in 2019. I believe it was
10 more than two-and-a-half inches that occurred in -- in
11 less than 30 minutes.

12 The other is sediment in the bottom of the pit
13 that's from stormwater runoff and not from slope failure
14 of pit walls. I just want to clarify that.

15 Next.

16 Okay. Now I'll go over the reclaimed waste
17 rock pile.

18 And there -- here we have a good history of
19 investigations that -- what I call key references. Most
20 of these were done under DP-55. They were also provided
21 to the Mining and Minerals Division.

22 So starting in 2007 all the way to 2019, we've
23 gone through numerous iterations of evaluating the cover
24 and the performance of the cover to protect groundwater.

25 Next.

1 So here's a photo of the site, and the black
2 outline represents the area of the waste rock pile.

3 And there's a bunch of labels like A-6, B-6
4 and so forth. In 2011 we installed a soil moisture
5 monitoring network to understand how the cover was
6 performing and to determine where the source was for
7 acid rock drainage that did -- that was occurring at the
8 toe of the pile, which is down by that little red line
9 up in the upper right-hand corner called the interceptor
10 wall. The interceptor wall collects acid rock drainage
11 that occurs from the waste rock pile and conveys it to a
12 pond to contain it so it can be mitigated.

13 That soil moisture monitoring system was from
14 2011 to 2016, and the primary findings were that the
15 cover was performing as designed, but there were areas
16 somewhere else where -- where stormwater was entering
17 the pile, more or less short-circuiting and causing
18 these acid rock drainage events.

19 Next slide.

20 So we implemented stormwater controls. We can
21 see there's a common theme here. And those stormwater
22 controls included diversion berms along the West Groin
23 to peel water off back into the natural arroyo and
24 piping and channel repairs to the East Groin.

25 Additional repairs were done recently to the

1 East Groin, I think about two years ago, and so that has
2 shown, I think, a very successful mitigation measure.

3 Next slide.

4 Here is a history of the acid rock drainage
5 flow from the waste rock pile.

6 So starting -- this is a bar graph. Starting
7 in 1991, which is time or years on the X axis, to
8 current, 2022. And the Y axis on the left-hand side is
9 annual acid rock drainage flow in gallons per minute,
10 and then the Y axis on the right side is the
11 precipitation in inches, the annual precipitation. So
12 the blue line represents the annual precipitation, and
13 then the little bars are the annual acid rock drainage
14 flow.

15 And as you can see, prior to reclamation it
16 was problematic. There was quite a bit of flow. And
17 since the waste rock pile has been reclaimed and
18 stormwater controls put in place, the last several
19 years, except for a little blip in 2019, have shown
20 almost a very negligible amount of ARD flow, something
21 less than half a gallon a minute maybe, quarter a gallon
22 a minute. I'm not sure. It's just a fraction.

23 Currently it's zero. We've been observing
24 zero ARD flow all year long, even after the heavy rains
25 we had this summer.

1 Next.

2 All right. I'll go over the site-wide
3 monitoring. And this includes what we do for everything
4 for AP-27, DP-55, and the Closure/Closeout Plan.

5 Here we have a map of the facilities.

6 So for the site-wide monitoring we do monthly
7 visual inspections of the facilities, even the ones that
8 have been reclaimed.

9 We have -- there are two weather stations on
10 site, one on the waste rock pile and one at the -- over
11 there by the residue pile remediation ponds, that are
12 collecting data continuously.

13 We record meter readings for -- for all the
14 stormwater diversions, groundwater pumping, anything
15 that's required for DP-55 and for the water rights
16 permits.

17 And then there's an extensive groundwater
18 monitoring network that's not shown on this map.

19 So water quality constituents of concern which
20 are covered under DP-55 and AP-27 and are summarized
21 here.

22 And for AP-27, which is the open pit, it meets
23 the -- currently meets the New Mexico Environment
24 Department Surface Water Quality Bureau surface water
25 standards for that.

1 Then there's groundwater standards. The open
2 pit waterbody has elevated TDS and sulfate that's being
3 treated as we speak, and then the reclaimed residue pile
4 plume has some residual nitrate and cobalt, and it's --
5 it's near its final phases of cleanup. The waste rock
6 pile/Dolores Gulch, which is below the waste rock pile,
7 still has some pockets of elevated TDS, sulfate,
8 suppressed pH, in a few areas aluminum, manganese, iron,
9 cadmium.

10 Next.

11 So here is a map of the site, and the property
12 boundary is kind of the outer limits of the map. And
13 you can see a place where it's in the lower right-hand
14 corner where it's identified.

15 All those dots with labels are monitoring
16 wells for DP-55 and AP-27.

17 And I just want to point out that on the
18 downgradient of all these facilities there's two blue
19 circles. Those are wells that provide downgradient
20 monitoring. When they were installed, they were clean,
21 and they are currently clean. And so anything related
22 to this as -- has remained where it is at the facilities
23 where it's currently being cleaned up, not downgradient
24 of it, not affecting any offsite properties.

25 Next.

1 Okay. Closure/Closeout Plan update. I kind
2 of hit some points on the updated plan.

3 So as I opened it up, the updated plan
4 specifically addresses the waste rock pile and the open
5 pit and some of the ponds.

6 There are acreages that we've talked about,
7 there's been quite a bit reclaimed and quite a bit
8 released. So we're dealing with a very small area left
9 on -- to be reclaimed and then the waste rock pile in
10 the open pit area. So let me go over those things.

11 Starting with the open pit. What you see here
12 is a map of the open pit. And the -- the white outline
13 is the watershed for the open pit. And then the yellow
14 kind of color is the reclaimed area within the
15 watershed, which includes a few portions of the waste
16 rock pile. And then the orangey kind of color or pink
17 is the unreclaimed area of the open pit walls and
18 benches. And then the -- obviously, the blue is where
19 the current waterbody resides.

20 So the -- the pit waiver is for that --
21 whatever we want to call it, pink color and the blue
22 color combined, which is -- totals 19.37 acres.

23 Next.

24 So just to kind of point out a few things. I
25 believe Daniel showed this same cross-section. It's the

1 cross of the open pit.

2 The previous plan had a projected fill to --
3 of water surface elevation of about over 6,945 feet, but
4 it's still -- even with that plan there were some
5 unreclaimed pit walls and benches that would remain.

6 Under the current plan -- or for the proposed
7 pit waiver request, the -- we believe the water level
8 will remain where it is now, where it says Current water
9 surface.

10 Next.

11 So this is just the regulation cited right out
12 from the Mining and Minerals Division for a pit waiver.
13 And so when we do this, we went through a rigorous
14 analysis of what is -- is it technically feasible, is it
15 economically feasible, or is it environmentally unsound
16 when you look at options for reclaiming the pit. And --
17 but the main thing is no matter what you do even with a
18 pit waiver, you still have to meet all applicable
19 surface water and groundwater standards related to that.

20 Next.

21 So these are the main alternatives that are
22 defined in the pit waiver requests of -- excuse me.

23 I'm not sure why I'm getting feedback. I'm
24 trying to be close but not too close.

25 So we looked at -- reevaluated stormwater. We

1 reevaluated a groundwater source for onsite as well as,
2 hey, can we get a groundwater source imported. We
3 looked at backfilling options and with onsite material
4 or with imported material. And even some combinations
5 of those.

6 So go to the next slide, Kevin.

7 There's just a summary of the analysis. I'm
8 not going to go into great detail, but is this
9 technically feasible? Are the materials available? Can
10 it be implemented? And will it be self-sustaining? For
11 our economic feasibility, what are the financial
12 implications? Does the cost outweigh the benefit? And
13 what is the cost per unit area reclaimed?

14 For environmentally sound, does it impact the
15 neighboring community? What effect does the alternative
16 have on natural resources? And another one which is I
17 think important, climate change impacts, what's the
18 carbon footprint for implementing that alternative?

19 Next, please.

20 MR. MYERS: I'm getting it's hard to hear
21 according to people online.

22 MR. FINCH: Okay. I'll try to do this without
23 feedback.

24 So here is a summary of the open pit
25 reclamation options, and same table that Daniel provided

1 earlier.

2 The only alternative with a yes is filling
3 with stormwater, however it is deemed technically
4 infeasible. We've looked at so many different ways,
5 even extreme watershed manipulation.

6 The costs for backfilling is -- is pretty --
7 is pretty up there in costs. So it's -- it's not
8 economically feasible either.

9 And then on top of that, any backfilling
10 option would generate a lot of carbon dioxide because of
11 trucking.

12 So that's a summary of the analysis for
13 alternatives to reclaim the open pit.

14 And so where we landed is what I call best
15 course of action.

16 And to maintain the postmining land use for
17 wildlife and livestock.

18 And then for -- as far as the Mining and
19 Minerals Division self-sustaining ecosystem
20 requirements, we met for all the disturbed and reclaimed
21 areas except for the 19.37 acres of open pit benches,
22 walls, and open pit waterbody.

23 AP-27 permit requirements will ensure the open
24 pit waterbody will meet surface water and groundwater
25 protection standards.

1 There are no pit filling alternatives that are
2 technically feasible, economically feasible, or
3 environmentally sound that we found.

4 And a pit waiver will allow for the applicable
5 permit requirements to be achieved and will be in the
6 best interest of wildlife, stakeholders, adjacent
7 communities, and land owner.

8 That concludes my testimony.

9 HEARING OFFICER ORTH: Thank you, Mr. Finch.

10 Kevin, do you think that the sound needs to be
11 off on that laptop maybe?

12 MR. MYERS: I'm pretty sure it is, but it's
13 good to check again.

14 (Proceedings in brief recess.)

15 HEARING OFFICER ORTH: Okay. Thank you.

16 So we will turn now to questions of Mr. Finch
17 and Mr. Lattin. If you are on the platform, please put
18 your question in the chat, and while I turn to those in
19 the room.

20 So, Mr. Wade or Ms. Rose for MMD, do you have
21 questions?

22 MS. ROSE: I do not. Thank you.

23 MR. WADE: And this is Mr. Wade.

24 I do not either.

25 HEARING OFFICER ORTH: Thank you very much.

1 Mr. Jantz, do you have questions -- or,
2 Ms. Yarbrough, do you have questions of Mr. Finch or
3 Mr. Lattin?

4 MR. JANTZ: I do.

5 What do you think is the best way to handle
6 this?

7 HEARING OFFICER ORTH: Well, so you can throw
8 the question out and let them decide which is the better
9 fellow to answer that particular question.

10 MR. JANTZ: So I guess should I -- should I be
11 at the microphone, then have them come to the
12 microphone, or can they repeat the question?

13 HEARING OFFICER ORTH: Yeah. You know, I'm
14 happy to give up my microphone if Kevin agrees that that
15 would work.

16 Would that work, Kevin?

17 MR. MYERS: (Nods head.)

18 HEARING OFFICER ORTH: Okay. So I'm going to
19 give you my microphone, and Mr. Finch and Mr. Lattin can
20 share that one.

21 MR. JANTZ: Okay. Thank you.

22 Is it okay if I stand here?

23 HEARING OFFICER ORTH: Yeah. Go ahead.

24 MR. JANTZ: Okay.

25 DANIEL E. LATTIN and STEVEN T. FINCH, JR.

1 having been previously duly sworn or affirmed, were
2 examined and testified further as follows:

3 CROSS-EXAMINATION

4 BY MR. JANTZ:

5 MR. JANTZ: So thank you.

6 This is a question for Mr. Lattin.

7 You mentioned that LAC was doing a forest
8 management plan and anticipated doing it for a bit
9 longer? Do you have a sense of how long you anticipate
10 continuing the forest management plan?

11 MR. LATTIN: Good question. Thank you, Eric.

12 I do not, and it depends on the availability
13 of our resources. You know, typically the resources
14 that are used are firefighters that work in the
15 off-season. So it would really depend on the
16 availability of the -- those -- those folks to do the
17 thinning.

18 MR. JANTZ: Okay. Great. Thank you.

19 And this may also be a good question for you.

20 Have any survey monuments been installed on
21 the pit walls, other than the prism that I think was on
22 the south wall?

23 MR. LATTIN: I would actually defer to
24 Mr. Finch.

25 MR. JANTZ: Okay.

1 So, Mr. Finch?

2 And it's Mr., right, not Dr.?

3 MR. FINCH: That's correct. Thank you.

4 MR. JANTZ: Uh-huh.

5 MR. FINCH: I'm not aware of any survey
6 monuments.

7 MR. JANTZ: Okay. Thank you.

8 So you talked a little bit about acid wall
9 seeps, and I'm glad that those have been dealt with.

10 What I was wondering about, have you
11 identified any additional acid wall seeps since the last
12 time you did the reclamation for -- or the remediation
13 for those acid wall seeps?

14 MR. FINCH: No. We do inspections after each
15 major rainstorm --

16 MR. JANTZ: Okay.

17 MR. FINCH: -- and we have not identified any
18 other areas of acid wall seeps.

19 MR. JANTZ: Do you see a risk for further acid
20 wall seeps at this site?

21 MR. FINCH: No, I don't.

22 MR. JANTZ: Okay.

23 You've talked a lot about the stormwater
24 control systems as part of the efforts to control acid
25 wall seeps and to keep the -- to keep the pit wall

1 stable, et cetera, right?

2 Have -- are those stormwater control systems
3 designed for more frequent 10- or 100- or 1,000-year
4 storm events?

5 MR. FINCH: I'll defer that to Daniel.

6 MR. JANTZ: Okay.

7 MR. FINCH: He's more familiar with the
8 engineering documents --

9 MR. JANTZ: Okay.

10 MR. FINCH: -- that went behind that.

11 MR. JANTZ: Okay.

12 MR. LATTIN: Yeah. Thank you.

13 So the stormwater control systems were
14 designed by Daniel B. Stephens --

15 MR. JANTZ: Okay.

16 MR. LATTIN: -- and are a public record, and I
17 really can't cite the design parameters from memory, but
18 I would direct you to those -- those publicly available
19 documents.

20 MR. JANTZ: Okay. Great. Yeah. We'll look
21 at those.

22 And just out of curiosity, have -- has the '94
23 Call & Nicholas report been sort of reevaluated in light
24 of more frequent storm events, 100-, 1,000-year storm
25 events due to climate change?

1 MR. LATTIN: No, not that I'm aware of, and I
2 understand that that's a geotechnical evaluation --

3 MR. JANTZ: Um-hum.

4 MR. LATTIN: -- not a stormwater
5 precipitation, water balance evaluation.

6 MR. JANTZ: Okay.

7 All right. That's all I have.

8 Thank you.

9 HEARING OFFICER ORTH: Okay. Thank you.

10 Mr. Myers, did anyone ask in chat a question?

11 MR. MYERS: Yes. There is one, and just a
12 reminder to get as close as possible to the podium
13 microphone. There was some difficulty hearing that,
14 some of the people online.

15 And I'm just trying to get back to --
16 Mr. Lelopath, I believe, had his hand raised, so I'm
17 going to suggest we unmute him, if that's all right.

18 HEARING OFFICER ORTH: Yes. That's all right.

19 Mr. Lelopath, we are unmuting you so that you
20 can ask your question of the LAC panel.

21 MR. MYERS: Okay. I'm told that that's not --
22 that's no longer a hand raise. So --

23 HEARING OFFICER ORTH: Ah, okay.

24 MR. MYERS: -- (unintelligible and/or
25 inaudible) with that.

1 HEARING OFFICER ORTH: All right.

2 So are there any other questions from anyone
3 of the LAC panel?

4 Oh, sir. Mr. Parker.

5 MR. PARKER: Thank you.

6 CROSS-EXAMINATION

7 BY MR. PARKER:

8 MR. PARKER: This question is for Steve Finch.

9 I'm curious where the combinations of
10 alternatives have been reported, because as far as I
11 recall anyway, things were evaluated pretty much
12 one-by-one.

13 MR. FINCH: Thank you, Tom.

14 That is correct. They were evaluated
15 one-by-one. There is some discussion between
16 backfilling, partial backfilling, and partial pit
17 filling with water, I believe. I'd have to dive deep
18 into Exhibit 5.

19 But the numbers for what storm -- available
20 stormwater or groundwater still wouldn't fill the pit.
21 And that's -- that's specified in there, what the
22 requirements are to fill the pit. And even if you
23 combine those two numbers for groundwater on site and
24 surface water runoff, the -- it doesn't -- both those
25 combined do not meet the requirement of the calculated

1 pit volume for it to fill to a -- to the point needed
2 for reclamation.

3 HEARING OFFICER ORTH: Thank you.

4 Any other questions of the LAC panel?

5 No? All right.

6 Thank you very much, gentlemen.

7 Please, if you would like to offer public
8 comment and you have a time constraint such that you
9 would like to offer that comment before we hear from
10 Friends of Santa Fe County, put something in the chat or
11 raise your hand. I'll wait a moment. Otherwise we'll
12 take just a short break, and then we'll come back to --
13 to hear from Friends of Santa Fe County.

14 Nothing, Mr. Myers?

15 MR. MYERS: No.

16 HEARING OFFICER ORTH: All right. Let's take
17 10 minutes. Let's come back at 7:40, and we'll hear
18 from Friends of Santa Fe County.

19 (Proceedings in recess from 7:33 p.m. to
20 7:43 p.m.)

21 HEARING OFFICER ORTH: Let's come back from
22 the break, please.

23 Mr. Myers, did anyone request an opportunity
24 at this moment to make public comment?

25 MR. MYERS: No, Madam Hearing Officer.

1 HEARING OFFICER ORTH: All right. Thank you.

2 We'll turn then to the presentation of the
3 Friends of Santa Fe County.

4 I see Mr. Myers has put Mr. Kuipers'
5 presentation on the screen.

6 Mr. Kuipers, I think I see you there. If you
7 would please raise your right hand.

8 Do you swear or affirm to tell the truth?

9 MR. KUIPERS: I do.

10 HEARING OFFICER ORTH: Thank you very much.

11 And I have been asked by the court reporter to
12 ask you to keep it -- keep it slow, and as she's not
13 amplified so I'm going to have to be the one to
14 interrupt you if you speed up.

15 Thank you.

16 MR. KUIPERS: And I appreciate that
17 suggestion.

18 JAMES R. KUIPERS

19 having been first duly sworn or affirmed, was
20 examined and testified as follows:

21 DIRECT TESTIMONY

22 MR. KUIPERS: So good evening, everybody.

23 My name is Jim Kuipers. I'm the principal at
24 Kuipers & Associates.

25 And for those of you that don't know me, I

1 have about 40 years experience in the mining industry.

2 The last 25 years I've worked for public interest

3 groups, tribes, government, primarily, and have been

4 working with folks on the New Mexico Mining Act, with

5 the Environment Department, and others for the past 25

6 years.

7 I have a lot of experience with pit waivers

8 and various other things, know probably about 80 percent

9 or 90 percent of the people in the room, including Steve

10 Finch.

11 Hi, Steve.

12 And so it's something that, you know, I

13 take -- it is a good opportunity in New Mexico that we

14 oftentimes have these opportunities for hearing, and

15 just want to mention that a lot of my comments are

16 predicated on the experience I've had over that past 25

17 years working with everybody.

18 So here's an outline of the comments I'm going

19 to go into. And maybe just up front let me suggest

20 that, particularly for the LAC folks, Barrick, that one

21 of the things that there's a great deal of interest in

22 New Mexico is ensuring that we address these mines in a

23 long-term way.

24 And the groups that I've worked with, GRIP,

25 Amigos Bravos, Friends of Santa Fe County, now, all of

1 them have an interest in working with the companies,
2 together with the agencies, and seeing if we can work
3 these issues out. We actually have a history of
4 reaching various points of agreement, settlement,
5 informal and both formal. And I think it's something
6 that, just so you know, there's a tradition of that
7 here.

8 And so in the spirit of that, I would just
9 suggest that these comments are really offered for
10 further discussion with the company. We haven't had a
11 good opportunity to really sit down and start to dive
12 into some of these things yet. I -- but we do plan on
13 and hope to do so in the near future. So really this is
14 something more of an outline for future discussions.

15 These are also things we've talked with the
16 agencies about. And we look forward to further
17 discussion with them, together with the company, on
18 these subjects.

19 I just want to start with a bit of
20 clarification. And I think a lot of folks know this,
21 but it seems like it's something that every time we talk
22 about a pit waiver we have to kind of go back through
23 this and make sure, and I think some of the discussion
24 we've heard tonight from both the agencies as well as
25 from the company and from their consultant, Steve, it

1 helps to clarify this.

2 What I'd mention is it's kind of hard to read
3 it in plain language out of the Closure/Closeout Plan
4 and the pit waiver, but what I want to emphasize here is
5 according to the Mining Act a postmining land use or
6 self-sustaining ecosystem essentially can be waived from
7 that requirement, but it's that requirement only that
8 it's waived from. And when we talk about postmining
9 land use of grazing, wildlife habitat, vegetation
10 relative to a self-sustaining ecosystem, it's limited to
11 just that.

12 And what we want to make sure in understanding
13 and accepting, if you will, the pit waiver, is what
14 other measures will ultimately be taken to ensure that
15 in fact the open pit or waste unit meets all applicable
16 laws, regulations, standards, following closure, and
17 will not pose a current or future hazard to public
18 health or safety.

19 And when we talk about future in New Mexico,
20 it's something that people have a very clear vision,
21 because we've done a lot of work on the Questa Mine,
22 Chino, Tyrone, Continental, other mines in the state,
23 and I think there's a very acute understanding that in
24 very rare circumstances do you actually walk away from
25 these mines.

1 This mine certainly isn't a Questa or a Chino
2 or Tyrone, but at the same time it's not a walkaway
3 mine. And I think that's evidenced by the fact we're
4 having this conversation 35 years after the mine closed,
5 25 years after reclamation was completed.

6 I think it was helpful the drawings that have
7 been provided and other things. I would just mention
8 that it was a little bit difficult to look at the
9 different colors and explain things, but I think the
10 explanation that was provided helps folks to understand
11 that the pit waiver is just with respect to the
12 difference in vegetation that you can deduct between the
13 difference in water elevation.

14 I would mention that when you sit -- see the
15 open pit water surface area in pink on the left, and
16 then you see it in blue on the right, it's one that just
17 makes this a little bit confusing sometimes from an
18 apples and apples comparison standpoint.

19 But I do think the explanation that was given
20 tonight is helpful and -- and is consistent with what
21 folks understand.

22 So if we do have a pit waiver, there's a
23 number of things that we think are important to be
24 considered as conditions or otherwise for the company to
25 perhaps consider modifying their proposal or otherwise

1 find a way to address.

2 But what we really want to do and in all cases
3 the goal truly is elimination or minimization of the
4 sources and of the need for long-term monitoring,
5 maintenance, and ideally, you know, again the idea of
6 walkaway is from an altruistic standpoint what we want
7 to do, but it's -- may not be achievable. And in this
8 case we have some site-specific challenges.

9 The number one starts with the fact that we've
10 got engineered source controls, stormwater controls,
11 covers intended to limit infiltration, various other
12 aspects that are laudable, and the work that has been
13 done is good work, but there's a need to make sure those
14 continue to perform over the long-term, and long-term
15 meaning hundreds if not thousands of years in the
16 future.

17 We have water treatment going on at this site.
18 It's not again the 1,500-, 2,000-gallon-per-minute
19 treatment that we talk about and all are very familiar
20 with for some of the other major mines in the state, but
21 nonetheless we do have periodic treatment for the pit
22 that will be necessary. And we really don't know how
23 that will work out going forward in the future, and we
24 still have seepage coming from the waste rock pile that
25 needs to be addressed and other things.

1 The big thing that we've all experienced and,
2 I think, know is -- I think everybody's done their best
3 to predict what might happen in the future, but there's
4 a lot of uncertainty in any of those predictions, and
5 that needs to be assured.

6 Financial assurance, as you've already heard,
7 is a significant aspect for everybody. In recognizing
8 that there are long-term needs for monitoring,
9 maintenance, perhaps replacement at some point, what
10 folks want to know is that that financial assurance is
11 in place to carry out those aspects long after the
12 company's gone, and for as long as it's possible or
13 probable, if you will, that the regulatory agencies in
14 the state would be responsible for that.

15 And I don't think most regulatory agencies in
16 the state, or in any state for that matter, were created
17 with an understanding or realization that they were
18 going to inherit and ultimately become the responsible
19 party's foresights like this, because the reality is
20 that we -- we know that no corporation or company can
21 actually exist forever. So this -- this long-term
22 aspect is very important.

23 When does it become time to redo monitoring
24 and maintenance and things like that? You know, I think
25 25 years is really the minimum. We see sites, though,

1 where we talk about the prediction of pit lakes where 50
2 years, 100 years, 200 years in the future through
3 evapoconcentration and other things, that's when they
4 begin to exceed standards. And that's the kind of thing
5 we need to discuss about here.

6 And really in terms of when we talk about
7 source controls and the need to maintain -- monitor and
8 maintain and in some cases replace those, we're talking
9 the need to go out 100 years, even as long as 500 years.

10 And I'm not sure how familiar, Daniel, you
11 are, and other Barrick folks that you work with are, but
12 I do think there's a precedent already in Nevada with
13 BLM where they take monitoring and maintenance long-term
14 out to 500 years.

15 And that's certainly something that while it's
16 been the norm in the State of New Mexico to go out 100
17 years, I think it -- it's important for you to know that
18 the interest on behalf of the public would be in
19 exploring and discussing something that went out
20 further.

21 A couple of points on pit stability and mass
22 wasting. And I think it's important to mention that
23 we're -- we're talking both. There are situations where
24 you have pit instability, where you can have large areas
25 that are re -- you know, related to faults. Other

1 geologic features can cause you to lose a lot of the pit
2 wall at once, and sources without a whole lot of warning
3 about that, although there are ways to be forewarned, if
4 you will.

5 And there's mass wasting, which is just simply
6 the fact that gravity is acting on these sharp pit walls
7 that you see, and over time they -- they slough and
8 degrade. And you can actually see evidence of that in
9 this pit. You can see evidence of it in any pit. And
10 that does slowly but surely cause additional mass
11 wasting over time that can be significant.

12 When we talk safety, it's important to talk
13 worker and regulatory safety. And I should mention I --
14 you know, we're not talking about in terms of monitoring
15 an active liner system that's operating continuously
16 like you would see in an operating mine -- expect to see
17 in an operating mine today. But we -- it would be good
18 to have something that allows for an assessment of if
19 there is the beginning of significant movement.

20 And I might mention that I'm not aware of any
21 of the high wall failures that are -- you know, have
22 been recorded in the last 20 years that resulted from a
23 storm event. That's typically not what triggers them.
24 It's really more typically a fault or other geologic
25 phenomena that just simply gives away to gravity at some

1 point.

2 Sometimes it is groundwater as the pit lake
3 rises does help in lubricating some of these, and
4 certainly stormwater doesn't -- can help in that. But
5 most are actually geologically and otherwise a triggered
6 set of stormwater events.

7 The biggest concerns we -- we have -- and I
8 think worker and regular -- regulatory safety, public
9 safety can be addressed, but ultimately as your pit
10 becomes unstable, as you have mass wasting occur, your
11 stormwater diversions and source controls are impacted.
12 Those are important from a water quality standpoint, and
13 maintaining pit water quality that's -- that's with the
14 predictions that you are based upon, is maintenance of
15 those source controls.

16 So it's important that those are also included
17 in -- in, you know, the designs and financial assurance,
18 et cetera.

19 When you see all these things happen, they
20 impact water quality. So it's important again the
21 waiver is understood not to waive the need to address
22 water quality, not to meet the standards in AP-27, but
23 to address vegetation, because we can expect in the
24 future that there will be some exposure to mineralized
25 material. I'm not suggesting how significant that will

1 be.

2 And there will be changes in the pit capacity
3 and level over time. And that's, I think, something
4 that we have a present condition that's predicted,
5 although I think, from what I read at least, it's
6 gaining in elevation, still continuing to go up
7 pretty -- go up maybe another 40 feet.

8 I think it's important to go beyond that and
9 try to predict what's going to happen, for example, if
10 we get into a dry period, impacted more severely by
11 climate change, or a wet period, what's going to happen
12 over even the next year or two as we see what results
13 from this last year.

14 I should change the slide -- okay. There we
15 go.

16 This is a -- I'm going to say a most extreme
17 case in terms of what can happen from a pit stability
18 and mass wasting standpoint. This is Montana Tunnels
19 mine in Montana, where it's a lead/zinc mine that was
20 mined about 20 years ago, shut down around 10 to 15
21 years ago. And it's one of the more rapid degrading
22 mine sites that I or other people I work with from BLM,
23 Forest Service -- we've had discussions about this --
24 have seen.

25 This is an example of what can happen quickly.

1 This can also happen over time. And you simply see that
2 the high walls, roads, other aspects start to degrade.

3 I want to make sure I -- I'm very clear that
4 I'm not suggesting that this kind of scenario will
5 happen in this case at Cunningham Hill, but this is the
6 kind of thing that happens, does need to be considered.

7 This is actually another set of pictures of
8 Cunningham Hill, and I think all the different photos
9 and other things have been very helpful.

10 You know, in terms of the Call & Nicholas
11 report, I'm not saying that it's not a valuable report,
12 but there's a different -- I'm going to say for a --
13 suggest a better understanding of pit wall failures, the
14 importance in terms of how we estimate them, how we look
15 at those.

16 A good example that I would point out is the
17 Questa Mine. There was a point in time in which there
18 was a suggestion made that there was no chance of mass
19 instability and/or pit instability at that mine site.
20 That suggestion was made by a very credible professional
21 engineer, geotechnical engineer.

22 But that assumption was challenged, and today
23 everybody recognizes at the Questa Mine there are
24 several places where there are major faults and other
25 things and actual parts of the pit wall that are failing

1 and that have had to be addressed and needed to be
2 accounted for in the Closure/Closeout Plan, and in the
3 Superfund cleanup plan there, as well.

4 So it's something where I do think it's worth
5 further discussion, consideration as to what that would
6 involve, what the costs would be, the timing. Perhaps
7 it's something that could be done over the next five
8 years as conditioned. And also again I want to make
9 sure we're not overshooting on the scope of what we're
10 suggesting needs to be done.

11 Talk about pit lake water quality. And, you
12 know, again I think it's important to note the
13 expectation of the public, others is that the
14 requirements of AP-27, they are continued to be
15 enforced, continuing to be looked at, is something that
16 you can't walk away from. And I haven't heard that
17 suggestion in what I've heard tonight or otherwise.

18 And I think it's just important to note that
19 when you look, for example, at the results from the
20 January, 2020 lab analysis -- and I would just point out
21 copper as one example here, the aquatic life standard is
22 .05, and the January, 2020 lab analysis was .04. I
23 believe these are milligram per liter. And with
24 evapoconcentration, other impacts, other things, it
25 doesn't take much for that .04 to reach up to .05, the

1 aquatic life standard.

2 And so there is reason to be concerned about
3 water quality. Again the expectation is that there
4 would be plans, financial assurance in place to do
5 additional treatment for as long as necessary.

6 And I'd suggest that really none of us can
7 accurately predict how long that may be necessary or
8 even at this point how frequent that may be. That's
9 really something that as the -- I like to say the Zen
10 master says, we're all going to have to wait and see,
11 and time will tell as to how frequent and what nature of
12 additional treatment needs to be done.

13 This is just demonstrating and, you know,
14 making more the point that we have a pit level. I
15 understood the pit level presently is 6,800, rising to
16 6,840. You know, that's the kind of thing we really
17 need to make sure we all understand and -- and have a
18 common expectation on.

19 And then also that the predictions and other
20 parts of -- in terms of tasks, financial assurance are
21 all predicated around not just one assumption today, but
22 understanding where we think this is going to the best
23 of our ability in the future.

24 Some of our comments and things we -- we
25 definitely want to discuss further are the waste rock

1 covers. And, you know, I think it's -- you know, it's
2 that the idea initially was to provide a waste rock
3 cover that limited infiltration while at the same time
4 providing for vegetation.

5 And that, you know, has been effective, as
6 pointed out by the decrease in the amount of leachate or
7 acid rock drainage coming out of the pile. But that
8 still continues even at a low rate, and if those source
9 controls aren't maintained, one would expect that that
10 rate could turn the other direction.

11 It's notable that the reclamation was
12 completed in '96, and then when you look through the
13 record, all the way through present, there has been a
14 need for ongoing repairs, maintenance, monitoring and
15 other things that have gone over. We've had the more
16 recent approval of a maintenance program to take care of
17 some of the more severe erosion that's shown up over
18 time.

19 That's the kind of activity that I think will
20 be required for as long as we think there's still
21 material in the pile that -- that is going to result in
22 exceedances of standards if those engineered controls
23 aren't maintained. And I expect that to be hundreds of
24 years in the future, but that requirement will still
25 exist.

1 And this is just some of the examples from the
2 recent report by MMD of what's being observed. And
3 again I'd point out that we're not talking major mass
4 failures of rock piles, the covers, things of that
5 nature, but we are talking the kind of erosion and other
6 things that are going to happen over time can be
7 expected.

8 This also isn't to take away from the success
9 of the reclamation at the site. I want to make sure I
10 make that clear. All sites I -- I'm involved in
11 reclamation sites in New Mexico. All of them, I
12 believe, need a certain degree of monitoring,
13 maintenance, and other aspects over time. None of us
14 are going to be so successful or good at what we do to
15 avoid that entirely.

16 So one of the things that our comments would
17 emphasize is using a preventative main approach --
18 maintenance approach to how you look at the waste rock
19 covers and other things. My own experience and history
20 with this -- and I should mention I'm working with the
21 Tohono O'odham Nation in Arizona at the Mission mine,
22 where I think it's been a more difficult reclamation
23 I've worked on given some characteristics.

24 But this idea of a preventative maintenance
25 approach is one of not waiting for things to get so bad

1 that we start to be concerned about whether water
2 quality or other aspects are being threatened, but
3 rather one where we get ahead of it, stay ahead of it.
4 And, you know, I think the mining industry folks are
5 very familiar with this approach from the standpoint of
6 how they work with their mining fleets, how you address
7 maintenance in a mill so you have high availability,
8 those various aspects.

9 But really it's the same idea but applied more
10 specifically to how you ensure that the covers are
11 operating as intended, as engineered controls
12 continuously over time.

13 And one of the other reasons I think it's
14 important to look at this approach and -- and adopt it
15 is this is how you need to structure financial
16 assurance. Financial assurance, if it ends up being
17 trying to figure out how to approach it from an episodic
18 standpoint, is very challenging. So to avoid that, an
19 approach that makes sense in terms of how you calculate
20 monetarily and otherwise, that's also an important
21 aspect of why I push preventative maintenance as an
22 approach.

23 We've heard a few comments and other things on
24 ARD treatment this evening, and this is just some
25 pictures again from the recent inspection of the

1 evaporation ponds.

2 And, you know, again I think this site's very
3 fortunate in that we're talking low ARD leachate rates
4 coming out of the pile. We can actually treat those
5 effectively using evaporation. In this case we don't
6 even need to use mechanical evaporation. We can just
7 let nature do most of the work for us.

8 But it does require long-term monitoring,
9 maintenance, and, in fact, replacement. These things
10 don't last forever. They fill up with sludge. The sun
11 deteriorates them. You need to make sure things like
12 bird netting are maintained.

13 And Nevada actually has a very interesting
14 similar history of approaching similar leachate coming
15 from leach piles and other things into wetlands systems
16 that are very small, similar to this. But that's also
17 where Nevada looks at 500-year financial assurance and
18 puts in replacement costs, that sometimes they're 20
19 years. I've seen replacement costs taken out once every
20 50 years in those 500-year estimates. It really shows
21 that over time it needs to be something considered.

22 You also heard folks talk about climate
23 change, and -- and I would also suggest the same
24 discussion applies to use of average data in models and
25 things of that like nature, because it really -- really

1 is problematic in a similar way.

2 But we've -- we've had a lot of discussions at
3 all of the different mine sites and -- and hearings and
4 things over the years, more intently over the past 10
5 years in particular, though, about anthropogenic climate
6 change, essentially that caused by us humans here on
7 this planet, and the changes that are occurring. And
8 certainly there -- there are still sceptics out there,
9 but I think, you know, certainly by now most of us
10 understand that it's something that is happening, and we
11 need to start to at least look at it very seriously
12 in -- in what we do.

13 The predictions are for the Southwest that
14 heavier rainfall events and periodic annual
15 precipitation may become more intense. And that's a --
16 that's a pretty large generalization. But I think in
17 what at least I've observed -- we saw one of those
18 events here in Montana with the Yellowstone floods and
19 the work I do with Stillwater Mining as part of the
20 agreement there that's existed for over 20 years now.

21 We saw the impact in how these things can
22 happen. You're seeing that in various other ways in New
23 Mexico for certain.

24 But the point I would make is when you go to
25 the NOAA Atlas, right now in describing the climate for

1 the site in the CCP, it discusses average data. But
2 what we're talking about is recognizing that 100-year
3 events are going to be more common, 200-, 500-, and
4 1,000-year events are going to be more common, as well.

5 The event that occurred in the Yellowstone
6 basin area, 1,000-year event, in various different
7 parts. And it was very interesting because literally
8 one part of one drainage would get a 1,000-year event,
9 while the next drainage might only have seen a more
10 typical 100-year event. And so it's something that
11 even, you know, where it occurs and how it occurs is
12 very important to consider.

13 But this just shows the variability of what
14 can happen in the entire sequence. You know, more --
15 most commonly we talk about 100-year events, and you can
16 see that that 24-hour, 100-year event is 3.37 inches of
17 moisture in that 24-hour period. A 1,000-year event is
18 4.51.

19 So you -- you know, it's -- when we talk about
20 designing and thinking about these higher events, we're
21 not talking about something where it -- the number is 10
22 times the 100-year, but really when you look it's maybe
23 an additional 25, 30, 40 percent.

24 This is where as an engineer I push, recommend
25 very hard that it's a good idea for any corporation, any

1 entity responsible for these things to think about this
2 from a standpoint of robustness, resiliency, and what is
3 the real cost of increasing what we do from 100 years to
4 1,000 years, and is that something we really should
5 consider, particularly when we have these long-term
6 liabilities involved.

7 The other thing is just to recognize that, you
8 know, like this year this looks like it may be a -- one
9 of the wettest years in many in New Mexico. This is
10 actually a climate change graph that you can obtain that
11 shows the Santa Fe County municipal area and what's
12 happened just this past year.

13 And I might mention the normal year is below
14 the gray here, and then this present year is being shown
15 by what is happening here with this difference. So you
16 can see that this has been a very wet year. Not as wet
17 as 2006, though, when you look over here at this small
18 graph over in the left-hand corner, but more significant
19 apparently than 1999.

20 So it's -- it's interesting to look at these.
21 And again I point out that we need to look not only at
22 periods of extreme dryness, drought, but we also need to
23 consider these wet periods, because in particular when
24 you look at things like the waste rock pile, this is
25 what drives the drainage from that pile.

1 So just a bit more on storm events is -- one
2 of the things I noted is we don't get a lot of
3 information about the designed storm events that are
4 used for the various stormwater channels and other
5 things on the site. Really the only thing mentioned was
6 the open pit outflow channel, which isn't really
7 relevant anymore given the fact that the pit lake is not
8 likely to rise to that level. And it would be nice
9 to -- to understand it more as well as talk about the
10 thought of increasing the capacity of those channels.

11 And again my recommendation is that at a
12 minimum everybody should be going to 200-year, 24-hour
13 designed storm events. That's the standard in Canada.
14 And preferably I would recommend we all would use a
15 20 -- or 500-year, 24-hour designed storm event as an
16 additional measure of conservatism.

17 And again I would just point out that
18 increasing the size of our ditches, containment, other
19 aspects to this, we're not talking about a huge amount
20 of money doubling or tripling the size of these as I
21 showed.

22 Two more slides.

23 Long-term monitoring, maintenance,
24 replacement. So at the end of the day, that's really
25 the discussion that we want to have, that the public, I

1 think, recognizes are the key issues, that are going to
2 really consider and address what folks are concerned
3 about in terms of water quality and other aspects.

4 Key parts of that discussion are recognizing
5 that ultimately, because of the way the process works,
6 because MMD after 12 years is, at least as they've done
7 elsewhere, going to go ahead and release the site,
8 really no longer be involved despite what may happen in
9 one form or another. Therefore, this all becomes NMED's
10 responsibility.

11 And this is something that those of us that
12 have worked, trying to figure out the Mining Act and how
13 it interacts with the Water Quality Act, other
14 aspects -- this is something we're coming to realize.

15 The tasks that are involved in this long-term
16 monitoring, maintenance, replacement, they need to be
17 clearly articulated. Without that articulation we can't
18 really figure out what to do with them in financial
19 assurance and other things. So that's something that I
20 think further in terms of what's been described needs to
21 be described further, needs to be perfected better, if
22 you will, for the CCP purpose.

23 Again we need to make sure all the tasks, all
24 the aspects of both AP-27 and DP-55 -- at least we would
25 recommend they're combined and included in the CCP.

1 Understand that AP-27 isn't necessarily part of the CCP
2 process, financial assurance, if you will, also, but one
3 of the things that I think is very difficult, not only
4 as a -- as a technical person, but also somebody who
5 works with lay people, the public a lot, is the idea of
6 kind of having two separate permits being renewed at
7 different times in different ways, that's something
8 that's very difficult to kind of manage and -- and other
9 parts.

10 If we could put this whole process, which is
11 bifurcated actually in MMD AP and DP separately right
12 now into one basket, that I think would be advantageous
13 for all parties to try to do so rather than in the way
14 it's set up to do now. Be good to be having the DP
15 renewal process at the same time as MMD reviews it, as
16 well.

17 Again I want to emphasize a conservative
18 approach, assume reasonable worst case. We're not
19 talking that -- you know, when we talk reasonable worst
20 case, we're not talking predicting a catastrophic
21 failure, that type of thing. But we do want to consider
22 those things that we know from history we can reasonably
23 predict to happen.

24 And things like failure of the pit walls over
25 time which results in mass waste and the other things,

1 that will happen. It will take a long time, be
2 something that can be dealt with, but it is the kind of
3 thing that rather than to say, well, we just don't think
4 it will happen, we think it needs to be considered, and
5 it can be considered and dealt with in a -- in a
6 reasonable way.

7 We need to address all the factors potentially
8 impacting water quality as has been mentioned, you know,
9 things like long-term vegetation, what happens if we
10 have a fire, drought, disease, various things that could
11 impact the vegetation upstream in the gulch.

12 Preventative maintenance of the cover for the
13 same reasons and because we know that -- I know
14 particularly that over time what looks like a good
15 result after 10 or 20 years can actually after 30 years
16 turn the other way on you. And it's just the kind of
17 thing that if you're depending on vegetation as an
18 important aspect needs to be considered.

19 Stormwater features that always require
20 maintenance, monitoring, replacement.

21 And then as we suggested, the ARD pond.

22 And, you know, the difficulty in addressing
23 all of these, again there's a lot of uncertainty, and
24 the only way you can really address uncertainty is to
25 have a contingency plan in place, not only for what you

1 anticipate, but for those things that are unanticipated,
2 and something that always needs to be out there
3 considering the fact that we haven't considered
4 everything that might occur in the future.

5 So finish up with just a few comments on
6 financial assurance.

7 Again NMED -- we're looking for them really to
8 carry the ball as this goes forward in the future.
9 Realize a lot of this hearing discussion tonight is
10 about MMD's requirements, but you can see it really is
11 going to be NMED that we're looking to in the AP permit
12 and DP permits to address the site long-term.

13 One of the concerns we have is just simply
14 that NMED doesn't do financial assurance nearly as
15 frequently. They don't have requirements and guidance
16 in the same way that MMD does.

17 I would note, however, that they do have
18 provisions in AP-27, some part of those provisions,
19 which are particularly provisions that I think are very
20 positive or good in terms of ensuring protection of
21 liability, but they do have provisions in AP-27, created
22 some 20-plus years ago, that I think are a good place to
23 start, but it would be one aspect to consider and -- and
24 whether ED just continues to use perhaps some of MMD's
25 rules and guidance.

1 Again a conservative approach is very
2 important in terms of reasonable worst cause case,
3 maintenance and replacement schedules, for example,
4 ensuring that those are part of the financial assurance.

5 Would suggest we would like to see a net
6 discount rate of something around 2 percent. 3 percent
7 or so has not been far, 3.3 percent, from what has been
8 looked at by the state and agreed to by other parties.
9 But when you consider the kind of inflation rate that
10 we're seeing now, inflationary period and other aspects,
11 I think it would be wise to further consider that rate
12 and drop it down to 2 percent.

13 And then as I mentioned previously -- and this
14 is something that I'm not necessarily expecting myself
15 that the agencies require, but I certainly would like
16 the company to consider, and as part of what we would
17 want to discuss with the company, the idea of 500 years
18 of financial assurance instead of 100 years.

19 And I mention that particular because I don't
20 think this aspect is entirely foreign to Barrick given
21 the fact that they do business in Nevada with the BLM,
22 where this is a requirement that they have for mines
23 such as heap leach and other mines that have longer term
24 requirements.

25 As I mentioned, we need to include funding for

1 contingencies.

2 And then the suggestions that I mentioned
3 earlier in terms of how long we need to show that we're
4 in compliance. I've suggested here 25 years for water
5 quality. As I said, when we look at predictions, other
6 aspects that we've seen in other mines, 25 years really
7 may not be enough. It may be that we see water quality
8 start to change 75, 100, 200 years in the future.

9 That's part of what we need to discuss.

10 And then the idea is we need at least 100
11 years of maintenance in the future. Again I'd carry
12 that out even further, but as a minimum we need to look
13 at maintenance of the site as part of the furtherance of
14 financial assurance for the next 100 years.

15 Appreciate everybody's time and patience and
16 lateness of the meeting, and that's it. If I can answer
17 any questions, I'll be glad to do so.

18 HEARING OFFICER ORTH: Thank you, Mr. Kuipers.
19 Your pace was just right.

20 Mr. Wade or Ms. Rose, do you have questions of
21 Mr. Kuipers?

22 MR. WADE: This is Gabe.

23 I do not have any questions.

24 HEARING OFFICER ORTH: Thank you very much.

25 Mr. Indall, do you have questions of

1 Mr. Kuipers?

2 MR. INDALL: No questions.

3 HEARING OFFICER ORTH: All right. Thank you.

4 If you're on the platform and you have a
5 question of Mr. Kuipers, please raise your hand or
6 indicate that you have a question through the chat.

7 Anything, Mr. Myers?

8 MR. MYERS: No, Madam --

9 HEARING OFFICER ORTH: No? All right.

10 Well, thank you very much, Mr. Kuipers.

11 MR. KUIPERS: Thank you.

12 HEARING OFFICER ORTH: Mr. Jantz, was there
13 anything further you wanted from Mr. Kuipers, I should
14 ask.

15 MR. JANTZ: No, Madam Hearing Officer.

16 HEARING OFFICER ORTH: All right. Thank you
17 very much.

18 We will move -- do we move then to Mr. Parker,
19 or is there someone else?

20 MR. JANTZ: We don't have any other witnesses,
21 Madam Hearing Officer.

22 HEARING OFFICER ORTH: All right. Thank you,
23 Mr. Jantz.

24 Mr. Parker, I see you indicated on the sign-in
25 sheet that you wish to offer comment.

1 Would you like to do that now?

2 MR. PARKER: Sure, Madam Hearing Officer.

3 HEARING OFFICER ORTH: All right. I have to
4 swear you in.

5 Would you raise your right hand.

6 Do you swear or affirm to tell the truth?

7 MR. PARKER: I do.

8 HEARING OFFICER ORTH: Thank you.

9 TOM PARKER

10 having been first duly sworn or affirmed, gave
11 public comment as follows:

12 PUBLIC COMMENT

13 MR. PARKER: So it's pretty late, and I
14 certainly apologize in advance for reading this. So
15 I'll try to leave out things that have already been
16 touched on by others or can just be relegated to
17 comments.

18 I would like to thank the Mining and Minerals
19 Division for the compilation of all of the pertinent
20 information for this matter on its web site. My hope is
21 that the New Mexico Environment Department can manage
22 the same when the AP-27 revision process begins.

23 And I want to thank Daniel Lattin of LAC for
24 making himself and Steve Finch of John Shomaker &
25 Associates available to me last week for the tour and

1 for his follow-up e-mails. As I understand it,
2 Mr. Lattin has committed to keeping Friends of Santa Fe
3 County and its attorneys in New Mexico Environmental Law
4 Center in the loop going forward.

5 And thanks especially to Steve Finch for his
6 explanations and for riding on the floor in the back of
7 the pickup club cab with all the gear.

8 I don't oppose the issuance of a pit waiver.
9 The suggestions for appropriate conditions have been
10 made by others or can be incorporated in the written
11 stuff.

12 The sort of meat of things from my perspective
13 is that the level of detail in the information presented
14 by LAC is insufficient to disqualify the surface water
15 diversions as technically infeasible. LAC concedes, as
16 Daniel stated, that it would be both economically
17 feasible and environmentally sound.

18 So this takes us to the series of slides.

19 Are you ready, Kevin? We'll see if we can
20 manage this.

21 So this slide, I believe -- well, okay. I'm
22 sorry. I did these -- what we really want, Kevin, is
23 the side -- slide that, I think, Steve Finch showed of
24 the drainage basin. That -- that slide. Okay. Great.

25 All right. So -- okay.

1 So the point is that LAC owns only a fraction
2 of the watershed that contributes to the pit. That's
3 the Upper Cunningham Gulch watershed. The majority is
4 owned by Santa Fe County and the Lone Mountain Ranch.

5 The next slide reproduces page 14 of Appendix
6 H as revised in May of 2020. So more reading, I fear.
7 No. Sorry.

8 Page 14. I put -- okay. One I think -- one
9 more maybe.

10 No. That's a summary. Oh, okay.

11 Basically the slide says that the effect --
12 here we go. I think I finally got it. Sorry.

13 LAC has invested in -- invested in a watershed
14 restoration program -- program that involves selective
15 thinning. However, it is unknown how much additional
16 yield can be generated by watershed restoration and
17 management. In addition, LAC property only includes a
18 portion of the Upper Cunningham Gulch watershed.

19 And so that fact means that it's technically
20 not feasible to fully implement restoration programs for
21 increasing watershed yield. I don't believe that MMD
22 nor NMED can require LAC to cooperate with its neighbors
23 in the watershed, but I do believe that LAC can
24 voluntarily and publicly commit to doing so. That's
25 what I'm asking for.

1 If cooperative efforts to thin the watershed
2 are successful, technically not feasible may be accurate
3 in the context of MMD regulations, but possible may be
4 the correct word in the real world.

5 Okay. So the next slide is from Table 2 of
6 Appendix H. That's -- that's the table that's got the
7 red and the green on it. Red and green. Yeah. No.

8 Okay. We're going to get there. Apologies.

9 Okay. So my point here is -- and the red and
10 the green are my additions. They're not in the
11 original. The biggest takeaway is that on the most
12 superficial level, which is what this is, and I admit
13 it, there appears to be a lot of effect from thinning of
14 trees in the watershed. LAC thinned approximately 90
15 acres in its portion of the watershed in 2017 and 2018.
16 My understanding is that it intends to thin more in
17 2023.

18 In 2016, before the thinning, about 13 inches
19 of total precipitation produced only 0.15 acre-feet of
20 flow at the measurement weir. After the thinning
21 approximately the same amount of rainfall in 2021
22 produced 5.24 acre-feet of flow. So there is some kind
23 of leverage in that.

24 As a retired employee of an environmental
25 consultant, I know things are not that simple. A

1 certain size rainfall event is required to produce
2 measurable flow. Required size of that event can change
3 with watershed con -- watershed condition, as can the
4 relationship between event size and flow produced. The
5 probability of any particular size event can change over
6 time.

7 And this is basically -- dovetails into what
8 Jim Kuipers said.

9 LAC has extensive data available to it. They
10 have chosen not to present it. I asked them to do so
11 and to provide their detailed analysis of what the
12 implications are of the data in terms of effectiveness
13 of tree thinning, and, depending on how long they stick
14 around, which we really haven't talked about -- I
15 suspect it will be for quite a while -- any observable
16 trends in the distribution of the intensity of storm
17 events with climate change.

18 So I'm not saying that I know what's going on.
19 I'm saying that LAC hasn't presented the information in
20 enough detail, in my opinion.

21 Okay. The next slide reproduces page 21 of
22 Appendix H, again with additions from me.

23 And it simply says that onsite stormwater
24 would be economically feasible if there were adequate
25 quantity for pit filling. LAC has implemented the 90

1 acres at a cost of about \$1,500 per acre. Restoration
2 of the entire watershed would cost 1. -- well, 2
3 million, roughly, which may be economically feasible if
4 enough stormwater was generated.

5 So what I'm getting at is it seems to me in
6 cooperation with its watershed neighbors that additional
7 sources of funding could be found, and this is orders of
8 magnitude better than any of the other alternatives.

9 Okay. The next slide is page 26 of Appendix
10 H, again with additions.

11 I've put the green question marks at what I
12 regard as the key undocumented point at this part. I
13 would like to say in parentheses that I'm doubtful that
14 the environmental community would unanimously agree that
15 the stormwater alternative is environmentally sound, but
16 I do believe it's an idea worthy of additional
17 consideration.

18 And finally, Figure 8 is another map from the
19 CCP of October in 2021. And the only point of this is
20 the pit happens to be fortuitously situated between two
21 drainages, Cunningham Gulch and Dolores Gulch, and
22 there -- there is a pos -- a possibility of reducing the
23 effects of tree thinning on the watershed and the
24 environment by doing it on both of these watersheds, but
25 more lively.

1 So we don't necessarily have to get all of it
2 out of the Cunningham Hill Gulch drainage. The -- a
3 500-acre-foot storm event in Dolores Gulch watershed has
4 been reported by LAC. Depending on the details, it may
5 be possible to physically arrange things so that from
6 more damaging extraordinary flows those are the only
7 flows captured at the lower, especially after the pit
8 full -- fills it does.

9 So finally, the bottom line to me is if it --
10 even if it proves impossible to fill the pit by thinning
11 the watersheds, that activity is in itself
12 environmentally beneficial and should be cooperatively
13 undertaken by LAC and its neighbors in the watershed. A
14 catastrophic fire in the watershed will not be
15 beneficial to the quality of the water in the pit lake,
16 nor to the recreational value of the Ortiz Mountains
17 Educational Preserve.

18 Thanks.

19 HEARING OFFICER ORTH: Thank you, Mr. Parker.

20 While I'm checking with folks in the room if
21 they have questions of Mr. Parker, if you are on the
22 platform and you have a question, please raise your hand
23 or indicate something in the chat.

24 Is there anyone in the room -- oops. I don't
25 have my video on.

1 Is there anyone in the room who has a question
2 of Mr. Parker based on his testimony?

3 No. All right.

4 Mr. Myers, anything in the chat?

5 MR. MYERS: (Shakes head.)

6 HEARING OFFICER ORTH: No.

7 All right. Thank you very much, Mr. Parker.

8 Let me ask if there is anyone else on the
9 platform who would like to offer public comment before
10 we adjourn this hearing. You will have a chance to
11 offer written public comment after this hearing, and
12 we're going to discuss that date next. Please raise
13 your hand or indicate in the chat that you'd like to
14 offer comment.

15 Anyone at all.

16 I believe all of the folks in the room now are
17 affiliated with a party or have already commented.

18 Anyone in the room that I've missed?

19 No.

20 Mr. Myers, anything?

21 MR. MYERS: No.

22 HEARING OFFICER ORTH: No. All right.

23 So thank you, all, for that.

24 We have just a few things to talk about.

25 First I'd like to clarify the documents that

1 will become part of the record as a result of having
2 been submitted in connection with this hearing.

3 I have LAC Exhibits 1 through 5.

4 Mr. Myers has all of the PowerPoint
5 presentations. All of this, the exhibits and all of the
6 PowerPoints that were displayed tonight, will be put on
7 the MMD web page.

8 Mr. Jantz, is there anything else from
9 friends?

10 MR. JANTZ: No, Madam Hearing Officer.

11 HEARING OFFICER ORTH: All right.

12 Mr. Indall, anything else besides this binder?

13 MR. INDALL: No. No -- none.

14 HEARING OFFICER ORTH: Okay. So thank you for
15 that.

16 We also have a sign-in sheet.

17 Now, I looked at the letter that Mr. Jantz
18 referenced earlier.

19 Let me speak into the microphone.

20 October 25th, I believe, was the -- the letter
21 you mentioned, Mr. Jantz, right?

22 MR. JANTZ: Correct, yes.

23 HEARING OFFICER ORTH: I did see a fair amount
24 of correspondence between and among LAC and actually
25 several state agencies reflecting their review.

1 Mr. Indall, you may need to consult with your
2 consultants, but if I were to ask you when you would
3 expect that LAC would have its responses to that
4 October 25th correspondence.

5 MR. INDALL: I believe we were given 45 days,
6 Madam Hearing Officer. So I think --

7 HEARING OFFICER ORTH: Okay.

8 MR. INDALL: -- schedules being what they are,
9 that would probably be --

10 HEARING OFFICER ORTH: All right. Forty-five
11 days.

12 So as I understand it, Mr. Jantz, the request
13 is that Friends be able -- and others be able to submit
14 some comment after that.

15 MR. JANTZ: Precisely.

16 HEARING OFFICER ORTH: Okay.

17 So now I have to ask the Division. We may --
18 if you want to have this conversation offline, we can
19 have it offline. You may need to reflect on it
20 tomorrow, for example, among yourselves.

21 But is it -- then knowing that there's 45 days
22 for the company's response, is it appropriate to leave
23 this hearing record open for that period of time plus --
24 plus something for others to comment on it, or is it
25 appropriate to do the usual two-week, for example,

1 period following this evening in which public comments
2 could be submitted and for the Division to handle
3 others' comments on the company's response to the
4 October 25th correspondence outside of this hearing
5 record and as part of -- of the larger review?

6 MR. SHEPHERD: Yeah. Madam Hearing Officer,
7 Holland Shepherd here.

8 I think -- I think we'd like some time to
9 reflect on that. I would like to do that.

10 HEARING OFFICER ORTH: Okay.

11 MR. SHEPHERD: Typically it's a shorter time
12 frame after the hearing is over, and we're asking here
13 for 45 days plus some. So I'd like to talk to staff
14 about that, get back to you.

15 HEARING OFFICER ORTH: All right. So for
16 those who might -- on the platform who might not have
17 heard the answer from the Division, Mr. Shepherd
18 indicated that he'd like to reflect on the question with
19 staff. So we won't have an answer tonight.

20 Let me just say that the deadline as it
21 currently stands for written comment following this
22 hearing that will be made part of this hearing record
23 currently stands at November 18th. That's a Friday, a
24 little more than two weeks from now. That's our typical
25 deadline following these hearings.

1 After I hear from Mr. Shepherd about this
2 October 25th correspondence request, I will send an
3 e-mail to the folks involved tonight, Mr. Jantz,
4 Ms. Yarbrough, Mr. Wade, Mr. Indall, and we'll get
5 this -- we'll get this question resolved. It's just not
6 going to be tonight.

7 So let me ask if there's anything else we can
8 do while we're together tonight collectively.

9 No?

10 Well, thank you, all, very much.

11 We'll adjourn, then, and have a safe trip
12 home. Good night.

13 MR. INDALL: Thank you.

14 (Proceedings adjourned at 8:46 p.m.)

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1 STATE OF NEW MEXICO)
2) ss.
3 COUNTY OF BERNALILLO)
4
5

6 I, CHERYL ARREGUIN, the officer before whom the
7 foregoing proceeding was taken, do hereby certify that
8 the witnesses whose testimony appears in the foregoing
9 transcript were duly sworn or affirmed; that I
10 personally recorded the testimony by machine shorthand;
11 that said transcript is a true record of the testimony
12 given by said witnesses; that I am neither attorney nor
13 counsel for, nor related to or employed by any of the
14 parties to the action in which this proceeding is taken,
15 and that I am not a relative or employee of any attorney
16 or counsel employed by the parties hereto or financially
17 interested in the action.

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