

# **EXHIBIT C.6**

New Mexico Designation

1 IN THE SUPREME COURT OF THE UNITED STATES

2 BEFORE THE OFFICE OF THE SPECIAL MASTER

HON. MICHAEL J. MELLOY

3

4 STATE OF TEXAS )

)

5 Plaintiff, )

)

Original Action Case

6 VS. )

No. 220141

)

(Original 141)

7 STATE OF NEW MEXICO, )

and STATE OF COLORADO, )

8 )

Defendants. )

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12 REMOTE ORAL AND VIDEOTAPED DEPOSITION OF

13 ROBIN CYPHER

14 SEPTEMBER 21, 2020

15 \*\*\*\*\*

16

REMOTE ORAL AND VIDEOTAPED DEPOSITION of ROBIN

17 CYPHER, produced as a witness at the instance of the

Defendant State of New Mexico, and duly sworn, was

18 taken in the above-styled and numbered cause on

September 21, 2020, from 2:00 p.m. to 4:08 p.m.,

19 before Heather L. Garza, CSR, RPR, in and for the

State of Texas, recorded by machine shorthand,

20 remotely at the offices of HEATHER L. GARZA, CSR, RPR,

The Woodlands, Texas, pursuant to the Federal Rules of

21 Civil Procedure and the provisions stated on the

record or attached hereto; that the deposition shall

22 be read and signed.

23

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21 Ms. Kayla Brown

22  
ALSO PRESENT:

23 Bobby Salehi

24 Bonnie DeWitt

25

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1 THE VIDEOGRAPHER: The time is 2:00 p.m.

2 We're on the record.

3 ROBIN CYPHER,

4 having been first duly sworn, testified as follows:

5 E X A M I N A T I O N

6 BY MR. ROBLES:

7 Q. Will you please state and spell your name?

8 A. Robin Cypher, R-O-B-I-N, C-Y-P-H-E-R

9 Q. Ms. Cypher, have you ever had your deposition  
10 taken before?

11 A. No, I have not.

12 Q. I know that your attorney has probably talked  
13 to you about the deposition and, you know, what to  
14 expect, but there are some things that I want you to  
15 know about the deposition that I'm going to take of  
16 you. If I ask a question that is confusing, difficult  
17 to understand, would you let me know that?

18 A. Absolutely.

19 Q. And if, for example, I ask a question and you  
20 want to consult with your attorney, would you let me  
21 know that, as well?

22 A. Yes, I will.

23 Q. And if for any other reason, you want to take  
24 a break, again, this is a deposition, not an  
25 interrogation, would you let me know that, as well?

1 A. Yes, I will.

2 Q. It'd be fair to say that you've been asked to  
3 testify in this deposition as a representative of --  
4 of the Texas Commission on Environmental Quality?

5 A. That's correct.

6 Q. Before we begin your testimony, I want to  
7 learn a little bit about your experience that makes  
8 you qualified to sit in the position that you  
9 currently hold. Would you please tell us about your  
10 education that's relevant for this matter?

11 A. I have a master's in wildlife biology from  
12 Southwest Texas State University. I worked  
13 two-and-a-half years in an environmental laboratory  
14 running wet chemistry samples followed by  
15 two-and-a-half years collecting field samples, water  
16 quality samples. I was then hired in 2001 as an  
17 aquatic scientist by -- by the Texas Commission on  
18 Environmental Quality for the Surface Water Quality  
19 Monitoring Program.

20 Q. So before -- I want to ask a little more  
21 detail about your experience and education. I take it  
22 you must've received a bachelor's degree in some  
23 particular subject; is that right?

24 A. That's correct.

25 Q. And what was -- and what degree did you

Texas  
Counter De...

New Mexico  
Designation

1 receive?

2 A. I received a BA in journalism.

3 Q. And when did you receive that degree?

4 A. 1990.

5 Q. And from what university or college?

6 A. Again, Southwest Texas State University.

7 Q. How did you find yourself changing course and  
8 going from journalism to wildlife science?

9 A. It was something that always interested me,  
10 science. I just chose journalism initially.

11 Q. And when did you receive your master's  
12 degree?

13 A. I believe it was 1997.

14 Q. At this particular university, what does it  
15 mean to have master's degree in wildlife science?

16 A. I don't understand your question.

17 Q. What is the subject -- what subject matter --  
18 what is the subject matter of wildlife science?

19 A. It can be a mixture of the analogy, aquatic  
20 ecology, land management, fire ecology, mammology,  
21 plant science.

22 Q. In receiving that -- that particular degree,  
23 how much chemistry -- how many -- how much chemistry  
24 did you study?

25 A. I had two classes of inorganic chemistry and



1 one class of organic chemistry.

2 Q. Now, you had mentioned that you worked four  
3 years before being hired on with the Texas Commission  
4 of Environmental Quality; is that right?

5 A. Not quite. Five years. Two-and-a-half in  
6 the laboratory and two-and-a-half in the field.

7 Q. And what was the name of laboratory where you  
8 were employed for I believe two years?

9 A. So Lower Colorado River Authority.

10 Q. And is that a governmental agency?

11 A. It's a quasi governmental agency.

12 Q. What do you mean by that?

13 A. They are not exactly state governments, but  
14 they were mandated by the state government to manage  
15 water --

16 Q. What --

17 A. And electricity and --

18 Q. I apologize for interrupting. And if at any  
19 point, I stop you from completely answering a  
20 question, would you let me know that, as well?

21 A. Sure.

22 Q. In the course of your work for that  
23 particular organization, did you examine water  
24 quality?

25 A. I don't understand your question. I analyzed

1 water quality samples, and I collected water quality  
2 samples. I did not evaluate the data.

3 Q. When you say -- when you use the term  
4 analysis, what do you mean?

5 A. Analytical analysis -- laboratory and  
6 analytical analysis.

7 Q. Then I believe you were employed by another  
8 agency; is that right, for approximately three years?

9 A. No. That's incorrect.

10 Q. All right. Did you stay with the same agency  
11 and then take a different position?

12 A. That is correct.

13 Q. Okay. What position is that?

14 A. It was, again, at the Lower Colorado River  
15 Authority, and it was in their field services area.

16 Q. What did you do in that field services area?

17 A. I collected water quality samples throughout  
18 the Colorado River basin in the State of Texas.

19 Q. Aside from collecting water samples, did you  
20 conduct any analysis or do any subsequent work with  
21 those samples?

22 A. No, I did not.

23 Q. What year did you begin your work at the  
24 Texas Commission on Environmental -- for Environmental  
25 Quality?

1 A. 2001.

2 Q. And what position were you hired?

3 A. As an aquatic scientist on the Surface Water  
4 Quality Monitoring Team.

5 Q. Since 2001, have you changed positions at the  
6 Texas Commission on Environmental Quality?

7 A. No, I have not.

8 Q. So it's fair to say that as we sit here today  
9 in 2020, you hold the same position; is that correct?

10 A. That is correct.

Texas  
Counter De...

11 Q. Now, I've seen -- what would be the best way  
12 to explain it -- that you have been listed as a  
13 project quality assurance specialist. Does that sound  
14 right?

15 A. For the SWQM project, yes, I'm a quality  
16 assurance specialist, it's one of my duties.

New Mexico  
Designation

17 Q. Okay. So would you please explain to me what  
18 it means to be a project quality assurance specialist?

19 A. The EPA requires a quality assurance project  
20 plan for any of their grant funded projects. The SWQM  
21 program works under the EPA grant, so they're required  
22 to have a grant, a QAPP. I moderate that document. I  
23 maintain it.

Texas  
Counter De...

24 Q. So do you supervise others in the performance  
25 of their work? Is that a fair assessment of one of

1 the -- one of the tasks as a project quality assurance  
2 specialist?

3 A. Part of our quality assurance program is to  
4 conduct field audits on our TCEQ region staff who  
5 collect water quality samples under this QAPP. Me and  
6 my team go out every year to look at the -- to observe  
7 our region staff collecting water quality samples,  
8 look at their data handling, their data management,  
9 make sure that they have all the required equipment  
10 and follow the procedures.

11 Q. Is it correct to say that you work for the  
12 Surface Water Quality Monitoring Program?

13 A. That is the program that I work under, yes.

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14 Q. Would you please explain the mission or the  
15 goals of the Surface Water Quality Monitoring Program?

16 A. Our goal is to monitor and assess the data  
17 for the statewide waters of Texas.

Texas  
Counter De...

18 Q. What is the process by which the Surface  
19 water Quality Monitoring Program identifies problems  
20 in surface water?

21 A. Most generally, it is through the Texas  
22 integrated report of Surface Water Quality, 305B, 303B  
23 list?

24 Q. So when you say that, what is the process by  
25 which you've developed that particular report?

1 A. In general, the Clean Water Act states that  
2 states must provide further quality of the data every  
3 two years. On even number of years, we produce a  
4 report called the integrated report. What we have is  
5 our data in the database that's provided to us by  
6 stakeholders -- sorry -- data providers and region  
7 staff. Those data are evaluated against the water  
8 quality -- the Texas state water quality standards to  
9 produce our 305B integrated report and 303B list.

10 Q. How does the Surface Water Quality Monitoring  
11 Program determine that in particular, let's just say a  
12 river, for instance, has an emerging problem that  
13 needs to be addressed?

14 A. One way through the integrated report is if  
15 it's determined to not be meeting its state standard  
16 or fails to meet the criteria that had been assigned  
17 to it in state standards or screening levels.

18 Q. Is it correct to say the surface water --  
19 Surface Water Quality Monitoring Program evaluates the  
20 effectiveness of the various controls that are in  
21 place with surface water quality?

22 A. That could be part, but that is not entirely  
23 true.

24 Q. Why do you say that?

25 A. The controls that may be in place may not

1 have any -- may not actually be in a position where we  
2 can sample the water, if that makes sense.

3 Q. I would like to say yes, but I -- I am sorry.  
4 I did not follow. Would you please help me understand  
5 what you mean by that?

6 A. The -- the integrated report may be able to  
7 identify controls that are not working. That would  
8 just be one of the factors it could find, but there  
9 are many others. It's not the -- it's not the only  
10 thing integrated report would identify.

11 Q. Okay. So generally speaking, once data is  
12 collected and the -- and the data is -- is then  
13 assembled, how do you evaluate whether water quality  
14 for a particular water body is declining or becoming  
15 worse?

16 A. Well, with the integrated report, it is  
17 either meeting the standard or it is not meeting the  
18 standard.

19 Q. If we have a water body that essentially is  
20 becoming worse and becoming -- and is increasingly  
21 coming closer and closer to the standard, what  
22 efforts, if any, are undertaken to try to prevent  
23 water quality from diminishing to a point where it's  
24 below standard?

25 MS. BARFIELD: The question is overbroad

1 and outside the scope of the testimony the witness is  
2 designated to provide, particularly from a geographic  
3 standpoint.

4           Go ahead.

5       A.    I cannot answer that question.

6       Q.    (BY MR. ROBLES)  Is it because -- I apologize.  
7 I interrupted you.

8       A.    I cannot answer that question as stated.

9       Q.    Is it because the question is confusing?

10      A.    My scope does not include water quality  
11 management actions.  It monitors.

12      Q.    Who --

13      A.    We don't improve or install water quality  
14 management plans in place.

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Designation

15      Q.    What are quality assurance monitoring  
16 procedures?

17      A.    Quality assurance monitoring procedures.  I'm  
18 not sure I understand that question.

19      Q.    So on the various documents on the TCEQ  
20 Website, as well as in the text of the Website, there  
21 is what's described as quality assurance monitoring  
22 procedures, and so does that ring a bell?

23      A.    I think you've misstate -- okay.

24      Q.    Okay.

25      A.    I believe you mean the surface water quality

1 monitoring procedures.

2 Q. Fair enough. Thank you for correcting me.

3 Would you please describe those procedures?

4 A. They are a list of standardized field

5 procedures that are provided to -- well, our water

6 quality samplers and other data providers that

7 describe the procedures and protocols to be used when

8 out in the field when collecting water quality

9 samples.

10 Q. What are the procedures for determining total

11 dissolved solids in a water body?

12 A. We use the multiprobe with the specific

13 conductance sensor.

14 Q. What is a multiprobe?

15 A. A multiprobe is a field instrument that

16 contains several sensors or may contain several

17 sensors like dissolved oxygen, temperature, PH, and

18 conductivity.

19 Q. So is it correct to say that a legible

20 current is run through the water, and that is a manner

21 in which it is determined how -- you know, the total

22 -- the dissolved solid load in that particular water

23 body? Is that a fair statement?

24 A. No.

25 Q. How would you describe it?



1 A. Conductivity is the measure of electrical  
2 current running based on the anion/cation balance in a  
3 water system that dissolve ions. The multiprobe, if  
4 equipped with a conductivity sensor, can measure that  
5 electrical current. There is an algorithm within the  
6 sensor that can convert conductivity measurements into  
7 total dissolved solid measurements; however, for TCEQ,  
8 we only collect specific conductance. For the  
9 integrated report, we determine total dissolved solids  
10 by multiplying the specific conductance by a factor.

11 Q. So correct me if I'm wrong, but I believe  
12 it's your testimony that TCEQ only looks for certain  
13 identified dissolved solids?

14 A. That is not correct.

15 Q. What -- how would you restate that question,  
16 so that it is correct?

17 A. I don't understand your question to be able  
18 to restate it.

19 Q. Okay. So what other dissolved solids for  
20 which TCEQ searches when it evaluates surface water?

21 A. Total dissolved solids is a sum of dissolved  
22 salts, some organics, and maybe some other  
23 constituents. It's very dependent upon the  
24 geophysical area that it's in. So it's the sum of a  
25 lot of different salts.

New Mexico  
Designation

1 Q. So it's correct to say that when TECQ  
2 determines total dissolved solids in a water body, it  
3 looks for salts?

4 A. Salts are a part of total dissolved solids.

5 Q. Okay. So, now, are you saying that you do  
6 not look for salts or that salts are a component of  
7 dissolved solids?

8 A. Salts are a component of total dissolved  
9 solids.

10 Q. In your evaluation of a water body, does TCEQ  
11 conduct the sort of testing that will be able to  
12 identify salts as opposed to the other types of  
13 dissolved solids that may be in a water body?

14 A. We additionally look at sulfate and chloride.

15 Q. So is it -- and correct me if I -- if I  
16 misunderstand. Is it -- is it correct to say that  
17 when TCEQ examines the total -- the total dissolved  
18 solids in a water body, it looks -- it determines the  
19 content of salts?

20 A. Again, inorganic salts are a part of total  
21 dissolved solids.

22 Q. What are the Texas surface water quality  
23 standards?

24 A. They are the criteria that are used -- that  
25 have been assigned to water bodies to meet assigned

1 uses, such as aquatic life use, contact recreation

2 use, fish consumption use, public water supply use.

3 Q. Where would I find those standards?

4 A. Those standards are available on the TCEQ

5 Website.

6 Q. Now, what is -- is it -- are these standards

7 developed by TECQ or some other governmental body?

8 A. They are developed by TCEQ, and I believe

9 some of them are in conjunction with EPA.

10 Q. Do you know what the stand -- what standard

11 is set for total dissolved solids in a particular

12 water body in the State of Texas?

13 A. Total dissolved solids are site specific,

14 meaning that each water body may have a different

15 total dissolved solid assigned to it in the standard.

16 Q. How is a determination made as to the -- I

17 guess the -- the base level for total dissolved solids

18 in a particular water body?

19 A. I can't answer that. I do not know that

20 answer.

21 Q. Where would I go to find the different base

22 levels of total dissolved solids in the different

23 water bodies in the State of Texas?

24 A. I can't answer that question.

25 Q. Is it because that question is confusing?

Texas  
Counter De...

Texas  
Counter De...

1 A. Yes.

2 Q. Okay. Now, if I'm -- correct me if I'm  
3 wrong, but I believe you stated that different water  
4 bodies have different set standards for total  
5 dissolved solids; is that right?

6 A. That is correct.

7 Q. Okay. Where would I go to find that  
8 information?

9 A. That is in the Texas water quality standards.

10 Q. Do you know how it is determined what is the  
11 set standard for total dissolved solids for a given  
12 water body?

13 A. I would have to refer you to the Texas water  
14 quality standard for that particular water body.

15 Q. I was asking if you knew.

16 A. I would refer to the Texas water quality  
17 standards for that criteria for that water body.

New Mexico  
Designation

18 Q. What is the total maximum daily load program?

19 A. The TMDL program identified -- water bodies  
20 identified through the integrated report as having an  
21 impairment. The TMDL program may -- if it's an  
22 appropriate water body, they may implement a plan to  
23 reduce permitted loadings to that water body so that  
24 it can maintain its -- it can meet the standard.

25 Q. So the program, is it correct to say it's a

1 technical analysis as to the maximum load of a  
2 pollutant that a water body can receive and still  
3 attain water quality standards?

4 A. I cannot speak for the TMDL program. I do  
5 not know how they come up with those plans.

6 Q. Now, do you -- do you know what an  
7 implementation plan is?

8 A. Yes.

9 Q. What is an implementation plan?

10 A. Once a TMDL has been accepted by EPA,  
11 approved by EPA, an implementation plan is initiated,  
12 which, again, describes the sources or potential  
13 sources for the loadings into a water body.

14 Q. So is it correct to say that an  
15 implementation plan is a -- is a series of measures  
16 that are meant to reduce the total load of a  
17 particular pollutant in a water body?

18 A. I believe it can be part of that. It --  
19 TMDLs are -- are -- plans are generally focused  
20 towards permitted dischargers.

21 Q. So then let me ask this question: What is a  
22 point source?

23 A. A point source is, say, an end of pipe, a --  
24 a direct contributor to a -- to discharge into a water  
25 body.

New Mexico  
Designation

1 Q. So a point source could also be the source of  
2 a pollutant for a given body of water; is that right?

3 A. It could be, correct.

4 Q. What are point source controls?

5 A. That is outside my purview.

6 Q. Okay. Is it -- based on your understanding  
7 of implementation plans, is it correct to say that  
8 point source controls are used to control the  
9 introduction of pollutants into a water body?

10 MS. BARFIELD: Lacks foundation. Lacks  
11 foundation. It's also outside the scope of her  
12 designated testimony.

13 Q. (BY MR. ROBLES) You can go ahead and answer.

14 A. That's outside of my purview.

15 Q. Who is responsible for making the  
16 determination that a particular water body should have  
17 an implementation plan at the TCEQ?

18 A. I believe the TMDL team makes that  
19 assessment.

20 Q. So you used an acronym. What does that  
21 acronym, TMDL, stand for?

22 A. The total maximum daily load team program.

23 Q. Is it your understanding that point source  
24 controls are -- or I should say that point sources are  
25 identified in order to determine whether they

1 contribute to pollutants in a particular water body?

2 MS. BARFIELD: It's overbroad and  
3 outside the scope of her designated testimony.

4 Q. (BY MR. ROBLES) You can go ahead and answer.

5 A. That's outside of my purview.

New Mexico  
Designation

6 Q. What is a water quality categories and  
7 management strategy?

8 A. After water bodies have been assessed through  
9 the integrated report, they are assigned a category.

10 The categories will determine what management  
11 strategies may be assigned to them going forward.

12 Q. Who determines whether the appropriate  
13 category has been signed?

14 A. I believe it's a mix of programs, our program  
15 and the TMDL program.

16 Q. Okay. What role does the EP -- the  
17 Environmental Protection Agency play in the  
18 development of water quality categories and management  
19 strategy?

20 A. I can't answer that.

Texas  
Counter De...

21 Q. Now, you mentioned that there are five water  
22 categories; is that right?

23 A. There are five main water categories, yes.

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24 Q. Okay. What is Category No. 1?

25 A. Category No. 1, I believe, means all uses are

1 fully supporting.

2 Q. When you use the term "all uses are fully  
3 supporting," what does that term mean?

4 A. The water quality standards assigns uses to  
5 water bodies if they all meet the uses through the  
6 integrated report, then they're assigned a Category 1.

7 Q. So when you say "uses," what do you mean?

8 A. Aquatic life use, contact recreation use,  
9 public water supply use, fish consumption use.

New Mexico  
Designation

10 Q. So it's fair to say that a Category 1 --  
11 Category 1 rating means that the particular water body  
12 is available for all uses?

13 A. I believe that's a fair thing to say.

14 Q. What is Category 2?

15 A. I believe a Category 2 means that it's  
16 meeting some of its uses, but not all. There was  
17 enough data to assess for at least some of its uses.

18 Q. What is done, if anything, if a particular  
19 water body is in Category 2?

20 MS. BARFIELD: Overbroad; outside the  
21 scope of her designated testimony, which was limited  
22 to the geographic area of the Rio Grande basin.

23 Q. (BY MR. ROBLES) You can go ahead and answer.

24 A. Category 2 is nothing usually happens to my  
25 knowledge. You just continue routine monitoring.



1 Q. What is Category 3?

2 A. I believe Category 3 is that no uses were  
3 assessed.

4 Q. So are you saying that the TCEQ would not  
5 have conducted a study or that there's just no data  
6 available?

7 A. There was no data available.

8 Q. When does that generally occur, when there's  
9 no data available?

10 A. It can occur for a number of reasons. The --  
11 the assessment requires that data would fall within a  
12 seven to ten-year period of record. There may not be  
13 data within that designated period of record. The  
14 sample site at that water body may have been dropped  
15 for some reason or another. The data provider decided  
16 to move their resources elsewhere.

17 Q. What is Category 4?

18 A. Category 4 are water bodies that have been  
19 impaired, have been determined not to be a use or  
20 uses, and it has three subcategories. It has a 4A, a  
21 4B, and a 4C.

22 Q. So what is -- what is Category 4A?

23 A. 4A means that the water body was impaired,  
24 but an implementation plan is in place.

25 Q. Is -- is there a particular threshold that

1 needs to be met so that a water body does require the  
2 implementation -- or the -- I guess the -- the  
3 application of an implementation plan?

4 A. I cannot answer that question.

5 Q. What is Category 4B?

6 A. I believe Category 4B is the impairment was  
7 caused by a pollutant not pollution.

8 Q. What is the distinction between a pollutant  
9 and non pollution?

10 A. A pollutant could be something that is  
11 natural, like a -- a high metal is naturally found in  
12 the ground. There's -- there's no management that's  
13 going to reverse that, or it could be something like  
14 there is a dam in place for hydroelectric and that dam  
15 is not going to be removed.

16 Q. So if I understand -- help me understand  
17 this. If a naturally-occurring pollutant exists in a  
18 water body, that is not necessarily a particular  
19 problem for which the implementation plan would be  
20 appropriate?

21 MS. BARFIELD: The question is overbroad  
22 and outside the scope as phrased for her defined  
23 testimony.

24 Q. (BY MR. ROBLES) You can go ahead and answer.

25 A. It would depend on what the problem is or

1 what the implementation plan is for.

2 Q. You had mentioned a naturally-occurring  
3 mineral essentially acting as a pollutant in a water  
4 body. Do you remember that?

5 A. I mentioned a metal.

6 Q. A metal. Okay. So let's take your example  
7 of a metal that's naturally occurring, polluting a  
8 water body. If it's naturally occurring, is that  
9 reason enough not to impose an implementation plan?

10 MS. BARFIELD: The question is  
11 overbroad, goes outside the scope of her defined  
12 testimony, and potentially calls for expert testimony.  
13 She's designated to talk about what's going on in the  
14 Rio Grande basin area. The question is also  
15 incomplete hypothetical. There's a lot going on  
16 there.

17 Q. (BY MR. ROBLES) Are you able to answer the  
18 question?

19 A. No, I cannot.

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20 Q. What is Category 5?

21 A. Category 5 is assigned to waters that are  
22 impaired -- that have been found to be impaired  
23 through the integrative report.

24 Q. As you use the term impaired, what do you  
25 mean?

1 A. The water bodies are not meeting their uses  
2 as described in the water quality standards.

3 Q. So is it correct to say that Category 5 -- a  
4 water body that's in Category 5 is no longer usable in  
5 a category that you've previously described?

6 A. I don't know what you mean by "usable."

7 Q. Okay. So if a water body no longer meets the  
8 applicable water quality standards, is it correct to  
9 say it's no longer usable?

10 A. Again, I don't know what you mean by the  
11 word "usable."

12 Q. If a water body does not meet the applicable  
13 water quality standards, as defined under, you know,  
14 as defined by TCEQ, should that water no longer be  
15 used?

16 MS. BARFIELD: Overbroad, ambiguous,  
17 incomplete hypothetical, outside the scope of this  
18 witness's designated testimony, lacks foundation.

19 Q. (BY MR. ROBLES) Are you able to answer the  
20 question?

21 A. No, I cannot answer the question.

22 Q. So when a -- when the -- when the -- a water  
23 body falls between applicable water quality standard,  
24 what, if anything, should happen?

25 MS. BARFIELD: Same objections.

1 A. I don't know what that question means.

2 Q. (BY MR. ROBLES) So if a water body falls in  
3 Category No. 5, what, if anything, should happen?

4 MS. BARFIELD: Same objections.

5 A. Category 5 actually has three sub numbers to  
6 it. There's a 5A, 5B, and 5C. 5A, that water body is  
7 a candidate for a TMDL. 5B, that water body is a  
8 candidate for a potential water quality standards  
9 change. If it's a 5C, that water body will continue  
10 being monitored to verify that there is indeed an  
11 impairment.

12 Q. (BY MR. ROBLES) So how do you determine that  
13 a water body is impaired?

14 A. If the water body fails to meet the water  
15 quality standard.

16 Q. So is impairment the appropriate word to use  
17 as opposed to the way I was using the word use?

18 MS. BARFIELD: Vague and ambiguous.

19 A. I don't know what that means.

20 Q. (BY MR. ROBLES) So a water body in Category  
21 No. 5, right, it -- if a water body is in Category 5,  
22 it has impaired use?

23 A. It has an impairment, and could -- which will  
24 be a use, yes.

25 Q. Okay. So I wanted to make sure we understood

1 -- you know, that I understood what you meant by  
2 dissolved solids and total dissolved solids. How  
3 would you define dissolved solids?

4 MS. BARFIELD: Asked and answered.

5 A. Dissolved solids are a sum of the dissolved  
6 salts and some organics and possibly some metals.  
7 They are chiefly defined by the geology and the area  
8 around them.

9 Q. (BY MR. ROBLES) What do you mean when you use  
10 the term total dissolved solids?

11 A. The sum of dissolved salts and organics and  
12 trace metals or even hydrocarbons can be in a total  
13 dissolved solid.

14 Q. When TECQ examines for total dissolved  
15 solids, does it look for any -- does it look for  
16 specific salts?

17 A. Again, total dissolved solids is a sum of  
18 dissolved constituents in a sample. Those  
19 constituents can be dissolved salts, hydrocarbons, and  
20 small organic -- little bit of organic matter.

21 Q. How would someone go about finding out the  
22 percentage or the amount of total dissolved solids  
23 that is, in fact, the salt as opposed to another  
24 inorganic material or organic material?

25 A. Salinity would probably be your best bet on

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1 getting a determination of the amount of inorganic  
2 salts.

3 Q. How are inorganic salts identified in the  
4 integrated report?

5 A. We use total dissolved solids, which includes  
6 inorganic salts. There is also sulfate and chloride  
7 measurements.

8 Q. So is it fair to say that sulfate and  
9 chloride are individual ions?

10 A. They can be. If they disassociate, they can  
11 be. Sometimes they don't and maintain as the sulfate  
12 cation and chloride cation.

13 Q. Okay. But salts are generally the  
14 combination of two different ions, for example, sodium  
15 and chloride; is that right?

16 A. That is correct.

17 Q. So is there any way when I look at the  
18 integrated report to be -- so that I can determine how  
19 much or what percentage of total dissolved solids are,  
20 in fact, sodium chloride?

21 A. You cannot do that using the integrated  
22 report.

23 Q. Is there some other database that I could go  
24 to that the TCEQ maintains where I could look at a  
25 water body and determine how much sodium chloride is

1 in a particular water body?

2 A. Not that I know of. I can't answer that with  
3 any degree of certainty.

4 Q. Is there any place or database that TECQ  
5 maintains where I can go and determine how much of  
6 other salts, of potassium and magnesium salt, is in a  
7 given water body?

8 A. Our surface water quality database, the SWQM  
9 IS, S-W-Q-M, I-S, may have some of the data.  
10 Potassium magnesium are metals and so they would show  
11 up as a metal component or a metal constituent.

12 Q. Now, you -- and you said that very quickly so  
13 I'm going to give myself a little forgiveness. You  
14 used an acronym, and I can't -- I can't repeat the  
15 acronym because you said it quickly.

16 A. Sorry.

17 Q. But what is that acronym and what does it  
18 mean?

19 A. The database is S-Q-U-M-I-S, the surface  
20 water quality monitoring information system. It is  
21 the database that houses our surface water quality  
22 monitoring data.

23 Q. So is it fair to say that if I look through  
24 this particular database, I could find -- I could find  
25 what TECQ has recorded about the existence of sodium



1 chloride in the Texas water bodies that have been  
2 exempt?

3 A. You would find the analytical results if they  
4 were -- if samples were collected for them in the SWQM  
5 IS database -- in the water quality database.

6 Q. So I want to continue our conversation about  
7 terms so that you know that I know that you and I are  
8 talking about the same things. So when I say Basin  
9 23, what does that mean to you?

10 A. Basin 23 is the Rio Grande basin.

11 Q. Now, as I understand it, TECQ has divided  
12 Basin 23 into 14 different segments; is that right?

13 A. It may be more than 14.

14 (Exhibit No. 3 was marked.)

15 Q. (BY MR. ROBLES) Okay. Well, I'm going to  
16 show you a map that's -- and ask you -- you recognize  
17 -- well, to help us hopefully get to the point where  
18 you and I are talking about the same thing. Do you  
19 see what's been marked Exhibit 3?

20 A. I am not seeing anything. Oh, there it is.

21 Q. There it is.

22 A. I do see a map.

23 Q. Do you recognize the map that 's marked  
24 Exhibit 3?

25 A. I recognize that it is part of the Rio Grande

1 basin.

2 Q. Do you recognize the various -- the legend  
3 was represented in the map in terms of the segments  
4 and the specific, I think they call IU -- or the  
5 acronym is IUID -- AIUD? I'm sorry.

6 A. The map appears to show station  
7 identifiers -- identification for water quality  
8 stations, and it seems to de-mark segment boundaries.

9 Q. You seem rather hesitant as you answer  
10 questions about this particular map. Is there  
11 anything about it that makes you uncertain as to its  
12 accuracy or reliability in terms of helping us  
13 understand, you know, how that segment of the Rio  
14 Grande along the City of El Paso has been segmented  
15 and various stations that are located there?

16 A. I think I could understand it. It's just a  
17 bit cluttered, and I wanted to make sure I had  
18 everything down.

19 Q. So when I mentioned to you that there were 14  
20 segments along the, you know, Basin 23, would this map  
21 help you know how many there are and how many there  
22 aren't?

23 A. This map shows again -- this map shows what  
24 are called classified segments. There may be  
25 additional segments that are called unclassified.

1 They are given a designation. Those are -- the  
2 classified water bodies are described in the water  
3 quality state standards. Un-classifieds tend to be  
4 smaller water bodies that are not described in the  
5 water quality standard.

6 Q. So I wanted to show you this particular map,  
7 and we -- I will end up talking to you about Segment  
8 2314 and Segment 2308. Do you see those?

9 A. I do see those.

10 Q. Now, in your work with the TECQ, is it fair  
11 to say that you have had an opportunity to review the  
12 -- the collection of data from those two particular  
13 segments?

14 A. I have had the opportunity to observe our  
15 TCEQ region staff collect samples in the Rio Grande in  
16 that area.

17 Q. Okay. So what would be your role in the --  
18 you know, in -- in supervising or conducting quality  
19 assurance testing of the data that's collected in that  
20 segment of the Rio Grande along the City of El Paso?

21 A. Again, as far as the quality assurance, my  
22 team goes out to all the region offices every other  
23 year -- every region office every other year so we get  
24 to watch observe them collecting water quality samples  
25 and managing the data, ensuring that they're

1 calibrating their instruments, collecting it as  
2 prescribed -- prescribed in the SWQM procedures  
3 manual. Quality assurance practices, the project  
4 specifications based in a QAPP, the laboratories sign  
5 off that they are following the reporting limits, and  
6 those, when they come into the TCEQ, they are screened  
7 by our data management and analysis team before they  
8 are loaded into the SWQM IS database, the surface  
9 water quality monitoring database.

10 Q. Are you part of the team that goes out to  
11 monitor the collection of those samples and subsequent  
12 analysis or do you supervise the team that goes out  
13 and monitors the collection of samples and the  
14 analysis of those samples?

15 A. The Surface Water Quality Monitoring Program  
16 coordinates the data collection with our TCEQ region  
17 staff and our other data providers, however, the  
18 Surface Water Quality Monitoring Program, my program,  
19 may occasionally be called upon to collect water  
20 quality samples, as well.

21 Q. What is your recollection about the type of  
22 work that you and your team have done in that segment  
23 that's identified in Exhibit 3, Segment 2314, 2308?

24 A. I -- outside of collecting routine water  
25 quality quarterly samples, I don't have any other

1 recollection of any other data sampling -- samples  
2 collection.

3 Q. In your review, the collection -- the samples  
4 from Segment 2314 and 2308, have you or your team  
5 members had any concerns about the validity or  
6 reliability of the samples collected?

7 A. We rely on the QA/QC procedures that we have  
8 in place.

9 Q. And in relying upon those procedures, have  
10 you had any concerns with the samples being collected  
11 from Segment 231 and 238 -- 2308, I'm sorry?

12 A. Not that I'm aware of.

13 MR. ROBLES: I see that we've gone a  
14 little -- gone about 50 minutes. Take a ten-minute  
15 break, and, you know, this is more for Theresa, I  
16 guess also for you. My guess is we'll finish about  
17 another hour or so.

18 MS. BARFIELD: Okay.

19 MR. ROBLES: All right.

20 MR. DUBOIS: Heather, this is Jim  
21 Dubois. You've got a phone number up instead of me  
22 anymore. It's (303) 241-1304. That's me.

23 THE REPORTER: Okay. Thank you.

24 THE VIDEOGRAPHER: The time is 2:54 p.m.  
25 We're off the record.

1 (Break.)

2 THE VIDEOGRAPHER: The time is 3:08 p.m.

3 We're on the record.

4 Q. (BY MR. ROBLES) Who or what program at TCEQ  
5 is charged with identifying, managing surface water  
6 salinity?

7 A. I can't answer that question as it's stated  
8 because it's overbroad.

9 Q. Is there a person at TCEQ who has the  
10 responsibility, among other responsibilities, to  
11 identify the salinity levels in Texas' water bodies?

12 MS. BARFIELD: Overbroad; outside the  
13 scope of the geographic area that the witness is  
14 designated to talk about.

15 Q. (BY MR. ROBLES) You can go ahead and answer.

16 A. My Surface Water Quality Monitoring Program  
17 does not measure salinity in inland freshwaters. We  
18 only measure salinity in tidal or marine portions.

19 Q. So it's also correct to say that there is no  
20 program at TCEQ that is passed among other things to  
21 identify and manage salinity in surface -- or fresh --  
22 surface water that is fresh?

23 A. I could only say that the Surface Water  
24 Quality Monitoring Program does not do that.

25 Q. Have you heard or do you know about the Rio

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1 Grande Salinity Project?

2 A. I have heard of it.

3 Q. Okay. What have you heard about the Rio

4 Grande Salinity Project?

5 A. That there was a Rio Grande Salinity Project.

6 It's very limited in my knowledge.

7 Q. Okay. Well, you know, so much for mining the

8 depths of your knowledge about that. From whom did

9 you hear about the Rio Grande Salinity Project?

10 A. I think I may have heard it in passing in

11 meetings. I cannot recall a specific person.

12 Q. Do you know if there is a person or people or

13 program that is tasked in part to address the -- to

14 become involved in and participate in the Rio Grande

15 Salinity Project?

16 A. I do not know that answer.

17 (Exhibit No. 4 was marked.)

18 Q. (BY MR. ROBLES) I'm going to show you a

19 document that is marked Exhibit 4. In preparation for

20 your deposition today, did you review the document

21 which is marked Exhibit 4?

22 A. No, I did not.

23 Q. Do you know who Linda, I believe it's

24 Brookins, the director of water supply division, is?

25 A. I know her.

1 Q. Who is she?

2 A. The way I know her is she was once in my  
3 management chain, but that --

4 Q. Has --

5 A. -- was years ago.

6 Q. Okay. Or one of her subordinates ever  
7 discussed with you the Rio Grande Salinity Management  
8 Program?

9 A. Not that I recall.

10 Q. Do you know -- and this is from this document  
11 -- an individual named Herman Settemeyer?

12 A. I recognize the name.

13 Q. How do you recognize the name Herman  
14 Settemeyer?

15 A. I just recognize the name. Possibly from  
16 meetings in the past.

17 Q. Do you recognize the name Suzy Valentine?

18 A. Yes. Again, the name is from meetings.

19 Q. Have you ever heard or do you recall hearing  
20 from Herman Settemeyer anything about the Rio Grande  
21 Salinity Project?

22 A. I do not recall ever communicating with  
23 Herman Settemeyer.

24 Q. Do you ever recall hearing Suzy Valentine  
25 discuss the Rio Grande Salinity Project -- Management



1 Project?

2 A. I cannot recall that with any accuracy.

3 Q. Do you recall if the TCEQ had any meetings or  
4 seminars regarding their participation in the Rio  
5 Grande Salinity Management Program?

6 A. I do not recall.

7 Q. To your knowledge, who would be responsible  
8 or what program would be responsible for being  
9 involved in the Rio Grande Salinity Management program  
10 at TCEQ?

11 MS. BARFIELD: That there actually is a  
12 program with that title at TCEQ currently.

13 Q. (BY MR. ROBLES) You can go ahead and answer.

14 A. Because I don't know anything about the Rio  
15 Grande Salinity Management, I could not tell you who  
16 would be responsible for it.

17 Q. Am I wrong in saying that your particular  
18 program would be that program at TCEQ that would be  
19 best suited to identify and monitor salinity in the  
20 Rio Grande basin?

21 A. That would be a management decision.

22 Q. Is there another group or program that --  
23 that is better suited than yours to identify and  
24 manage salinity in the Rio Grande basin?

25 A. I find that question to be sort of subjective

1 if I don't -- I can't answer that the way it's stated.

2 Q. Is there another group or program at TCEQ  
3 that has the training, experience, and knowledge to  
4 handle the management of Rio Grande facility program  
5 or a program like it?

6 A. Again, I don't know anything about the  
7 salinity management program, so I can't tell you if  
8 there are staff available.

9 Q. Is there another program or group in TCEQ  
10 that has the experience, knowledge, and training to  
11 handle -- to identify salinity and manage salinity in  
12 a particular river basin?

13 A. I cannot answer that question. It's  
14 overbroad.

15 Q. Why do you say it's overbroad?

16 A. Experience, knowledge, and training to  
17 identify and manage salinity in a particular river  
18 basin. It would depend on what they were trying to  
19 achieve.

20 Q. When you say it depends on what they're  
21 trying to achieve, what do you mean?

22 A. What they are trying to achieve through their  
23 management practice.

24 Q. So what is that program or group at TCEQ that  
25 has the -- the best resources available to it to

1 identify a salinity problem in a water model?

2 MS. BARFIELD: Overbroad; outside the  
3 scope of the testimony she's identified to discuss.

4 A. Again, my program does not measure salinity  
5 in inland freshwaters, only in marine and tidal.

6 Q. (BY MR. ROBLES) Do you know if a program at  
7 TCEQ's does examine salinity in inland freshwaters?

8 A. I do not know of a program that does that.

9 Q. Do you know if any person or program at TCEQ  
10 has developed estimates regarding the economic impacts  
11 of elevated salinity in fresh -- in freshwater bodies?

12 MS. BARFIELD: Objection; this witness  
13 is not designated on that bullet point in the notice  
14 as set forth in our response to the notice.

15 Q. (BY MR. ROBLES) Do you know if -- or you can  
16 go ahead and answer.

17 A. I do not have any knowledge about economic  
18 impacts.

19 Q. I'm going to show you what's been marked  
20 Exhibit 5.

21 (Exhibit No. 5 was marked.)

22 Q. (BY MR. ROBLES) Do you see that in front of  
23 you?

24 A. Yes, I do.

25 Q. What is it?

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1 A. That appears to be a page from the 2020  
2 integrated report for Basin 23.

3 Q. And, again, please take as much time as you'd  
4 like to review it -- I should say Exhibit 5 -- because  
5 I want to ask you questions about it.

6 A. Okay.

7 Q. From what you can tell, is Exhibit 5 a fair  
8 and accurate copy of a page of the 2020 Texas  
9 Integrated Report?

10 A. Yes. It appears to be.

11 MS. BARFIELD: I'm just going to object,  
12 too, that there's more than one page here. Were you  
13 intending that question to reflect just this first  
14 page?

15 MR. ROBLES: Right. There's, I think,  
16 127 pages. I didn't think it --

17 MS. BARFIELD: Well, that was --

18 MR. ROBLES: -- it made sense to attach  
19 them all so I'm only referring to specific pages, if  
20 that answers your question.

21 MS. BARFIELD: Go ahead.

22 Q. (BY MR. ROBLES) Now, is this the integrated  
23 report that you had referenced in your earlier  
24 testimony today?

25 A. This is a portion of it.

1 Q. Now, would you help us -- would you walk us  
2 through this particular document, what is referred to  
3 by the acronym SEGID?

4 A. That refers to the segment ID, and it is a  
5 numeric designation.

6 Q. Now, I had shown you previously what was  
7 marked as Exhibit 2 -- or -- no, I'm sorry, it was  
8 Exhibit No. 3. Do you remember that? That was the --  
9 the portion of Basin 23 that had the segments and  
10 stations identified on it.

11 A. Oh, the map.

12 Q. Yes. The map. So -- and I mentioned to you  
13 that I was going to refer to Segment 2314 from that  
14 particular map, and that's the -- the segment that's  
15 being referenced in Exhibit 5; is that right?

16 A. Yes.

17 Q. Now, what is an AUID?

18 A. An AUID stands for assessment unit ID.

19 Q. And what -- what -- what is that unit that's  
20 being assessed? Is it an area or something else?

21 A. It is a -- an area of a segment.

22 Q. So it's correct to say that this particular  
23 page deals with a segment that -- which is the Rio  
24 Grande above the International Dam; is that correct?

25 A. That is correct.

1 Q. And it's also reviewing an area from the  
2 International Dam upstream to the Anthony Drain  
3 confluence; is that right?

4 A. That is correct.

5 Q. Now, as we move down, I've highlighted  
6 certain sections that I want to ask you about. So do  
7 you see where it says, "General use"?

8 A. Yes.

9 Q. So I'm going to ask you about the particular  
10 columns that are underneath that section that is  
11 marked general use in Exhibit No. 5. Do you see  
12 dissolved solids?

13 A. Yes.

14 Q. Now, is it correct to say that certain  
15 dissolved solids are identified with specificity, like  
16 chloride, for instance?

17 A. Yes.

18 Q. And there's one for sulfate; is that right?

19 A. Yes.

20 Q. And then there's a column for total dissolved  
21 solids?

22 A. Yes.

23 Q. Now, it's correct to say that there is no --  
24 there is no reference in this particular exhibit with  
25 regard to that portion of total dissolved solids that

1 is composed of salt; is that right?

2 A. Yes. That's correct.

3 Q. So as we move along from perimeter, period of  
4 record, and then you see criteria, do you see that?

5 A. Yes.

6 Q. Now, with regard to the third line, which is  
7 dissolved solids, total dissolved solids, do you see  
8 that number 1800?

9 A. Yes.

10 Q. Now, is -- is it correct to say that that  
11 1800 number is -- is -- is supposed to represent all  
12 the constituents which make up total dissolved solids?

13 A. That is the criterion that has been assigned  
14 to Segment 2314 for total dissolved solids in the  
15 Texas Water Quality Standards.

16 Q. So what do you mean by criteria?

17 A. Criteria is the numeric criterion that has  
18 been assigned to the dissolved solids for the -- that  
19 -- a water body must meet that concentration of  
20 dissolved solids to be considered not impaired.

21 Q. So the criterion column represents a numeric  
22 value, which the water body should meet?

23 A. That is correct.

24 Q. And as I move along to the end column, do you  
25 see that CAT?

1 A. Yes.

2 Q. And you would agree with me that CAT  
3 represents category?

4 A. That's correct.

5 Q. And you and I had a discussion about what  
6 category means?

7 A. Yes.

8 Q. Now, as I look at this particular document, I  
9 do not see that -- or with regard to the total  
10 dissolved solids, that there is a category assigned to  
11 that particular constituent of surface water; is that  
12 right?

13 A. I do not see a category for total dissolved  
14 solids, no.

15 Q. Should the integrated report list the cat --  
16 if applicable, the category to which the constituent,  
17 you know -- let me -- that was a horrible question.

18 Is it correct to say that the integrated  
19 report should list the category for the particular  
20 pollutant that's found in surface water that's listed  
21 in Exhibit 5?

22 A. The integrated report, the -- the water body  
23 will take on the -- how should I put this -- worst  
24 category. In this instance, you can see on a line  
25 above for recreation use, the bacteria was found to



1 exceed the state standard for E. coli, therefore, it's  
2 been assigned a Category 5C, and that would be the --  
3 the water body would roll up to a Category 5C.

4 Q. If I remember correctly, you know, 5C  
5 represents a category in which an implementation plan  
6 is being considered; is that correct?

7 A. That's not correct.

8 Q. What is the correct definition for 5C?

9 A. 5C -- a water body in 5C is assigned for more  
10 monitoring to verify the impairment.

11 Q. But with regard to the -- to total dissolved  
12 -- or dissolved solids, it would be fair to say that  
13 nothing is listed under category?

14 A. That is correct.

15 Q. Is that an omission or oversight?

16 A. No. Since that water body is not found to  
17 have an issue with dissolved solids or, in fact, it  
18 looks like anything -- it's not failing to meet the  
19 state's standards so there's no water management plan  
20 that needs to happen so it's not assigned a category.

21 Q. I'm going to turn the page to Page 2 --

22 A. Okay.

23 Q. -- and then turn the page to Page 3. Do you  
24 see Page 3 of Exhibit 5 in front of you?

25 A. Okay. What page was I supposed to be looking

1 at?

2 Q. Well, I -- I apologize if I'm being  
3 confusing. I have attached four pages to this  
4 particular -- this particular exhibit --

5 A. Yes.

6 Q. -- but I understand your confusion because as  
7 you read down below, you see Page 126 of 127.

8 A. Yes.

9 Q. Do you see that page?

10 A. All right. I'm on Page 126 of 127.

11 Q. Of Exhibit 5. We're still talking about the  
12 same thing, I take it?

13 A. Yes.

14 Q. Now, this particular segment or I should say  
15 area, you would agree with me, is that area from the  
16 Anthony Drain confluence upstream to the New  
17 Mexico/Texas state line?

18 A. That is correct.

19 Q. Is that -- and I'm sorry. I know you nodded  
20 your head, but I didn't recall hearing an answer.

21 A. That is correct.

22 Q. Now, moving down to the general use where you  
23 see a method, is it correct to say that in this  
24 particular integrated report, there is no accounting  
25 for the presence of sodium chloride or a salt of any

1 other kind?

2 A. Could you restate that question?

3 Q. Is it correct to say that on this particular  
4 page of Exhibit 5, which is listed Page 126 of 127, is  
5 it correct to say that this particular portion of the  
6 report does not identify the existence of sodium  
7 chloride or another salt?

8 A. It does not single out sodium chloride.

9 Q. If -- if I was to ask you, where could I go  
10 in the TCE -- TCEQ database of documents and reports  
11 to find out what is the level of sodium chloride in  
12 that particular segment, where would I go?

13 A. I don't believe that we have a document like  
14 that, and our database contains data rather than  
15 reports.

16 Q. I apologize if I'm butchering the way that  
17 you-all collect information and store it. Is there  
18 somewhere where I could go find -- at TCEQ where I  
19 could find the data that would tell me or anyone else  
20 the salinity levels for this particular segment that  
21 we're referencing in Exhibit 5?

22 A. Surface water quality data are in the surface  
23 water quality monitoring information system, surface  
24 water quality database. Those data may be in there if  
25 they were collected.

1 Q. So as we sit here today, is it fair to say  
2 that you do not know if that database has collected  
3 information about the existence of sodium chloride,  
4 salt, in the waters -- the surface waters of the Rio  
5 Grande?

6 MS. BARFIELD: Mischaracterizes her  
7 testimony; vague and ambiguous.

8 Q. (BY MR. ROBLES) You can go ahead and answer.

9 A. To my knowledge, there is no data in the  
10 database for sodium chloride. There will be data for  
11 sodium, and there will be data for chloride. There  
12 will also be specific conductance, which could be  
13 converted to salinity.

14 Q. Do you know why the data is recorded so that  
15 there is no testing for sodium chloride, but there is  
16 testing for sodium separate and apart from the ion  
17 chloride?

18 A. Sodium is a metal that is tested for, and  
19 chloride is the anion that we have state standards  
20 for.

21 Q. Is there a reason why TCEQ tests for sodium?

22 A. Again, I believe there is a water quality  
23 standard for it.

24 Q. It's just simply not reflected in the Texas  
25 integrated report; is that a fair statement?

1 A. Let me think about this for a second. I  
2 would like to retract my statement. I do not know for  
3 sure that there is a water quality standard for  
4 sodium.

5 Q. In -- based on your experience having worked  
6 at TCEQ for almost 20 years, have you encountered a  
7 situation in which you, your team members, or a  
8 program has identified salinity as a problem in a  
9 freshwater -- fresh surface -- in fresh inland surface  
10 water?

11 MS. BARFIELD: Overbroad; vague and  
12 ambiguous; outside the scope of the testimony she's  
13 designated to give.

14 A. Throughout 20 years, yes, we have used the  
15 total dissolved solids or specific conductance pointed  
16 out that this -- a water body may have high salt  
17 content.

18 Q. (BY MR. ROBLES) I'm sorry. Are you finished  
19 with your question -- or your answer? I'm sorry.

20 A. I am. I am finished.

21 Q. Have you, a member of your team, or another  
22 program at TCEQ, have any of you identified elevated  
23 levels of salinities, sodium chloride, as -- as an  
24 issue of concern in Basin 23?

25 A. I could say that we have not identified

1 sodium chloride as a concern in Basin 23.

2 Q. Have you, any members of your team, or  
3 another program at TC -- TCEQ identified sodium as an  
4 issue of concern with regard to the surface water  
5 Basin 23?

6 A. Not to my knowledge.

7 Q. Have you, any members of your team, or any  
8 other program at TCEQ identified chloride as an issue  
9 of concern in the surface waters of Basin 23?

10 A. I cannot answer that with any surety. I  
11 would have to look at another report as part of the  
12 integrated report.

13 Q. What report is that?

14 A. It could either be the 303D list or it could  
15 be the impaired waters -- list of impaired waters, I  
16 believe it's called.

17 Q. So I'm going to show -- well -- I'm going to  
18 show you what's marked as Exhibit 6.

19 (Exhibit No. 6 was marked.)

20 Q. (BY MR. ROBLES) Do you recognize the document  
21 that's being presented as Exhibit 6?

22 A. It appears to be the 303D list for the 2020  
23 integrated report.

24 Q. Okay. I apologize that it's a little -- let  
25 me shrink this down a bit. So it's correct to say I'm

1 only showing you one page of -- of a multi-page  
2 document; is that right?

3 A. That's correct.

4 Q. And is it correct to say that your program is  
5 responsible for compiling the information, which is  
6 presented in the Texas 303D list?

7 A. That is correct. My program produces this  
8 document.

9 Q. And I forgot to ask previously with regard to  
10 Exhibit No. 5. Is it correct to say that you and your  
11 program are responsible for compiling the information,  
12 which is contained in Exhibit 5, the integrated  
13 report?

14 A. That is correct.

15 Q. Now, turning your attention back to Exhibit  
16 No. 5, would you please explain what is a Texas 303D  
17 list?

18 A. The 303D list is a list of water bodies that  
19 are impaired -- found to be impaired -- determined to  
20 be impaired from the integrated report. They are  
21 water bodies that have been assigned to Category 5.

22 Q. So what does 303D refer to?

23 A. The clean water act, Section 303D.

24 Q. Of the federal or the state?

25 A. The federal Clean Water Act.

1 Q. Now, is it correct to say that this  
2 particular page of Exhibit 5 refers to a segment -- an  
3 area which is the Rio Grande below the Riverside  
4 diversion dam?

5 A. That is correct.

6 Q. Now, would you please explain, in general  
7 terms, what type of information is presented in the  
8 Texas 303D list with regard to the specific concerns  
9 that a particular surface water -- surface water might  
10 have?

11 A. That's a very vague question. Could you  
12 narrow it down, please.

13 Q. When preparing the Texas 303D list, what type  
14 of information do you and your program intend to show?

15 A. The 303D list shows the segment ID and the  
16 description of the segment, the impaired parameters,  
17 and the use that's -- those parameters fall under, the  
18 assigned category, and the year that this -- that this  
19 particular parameter was first listed or placed on the  
20 303D list.

21 Q. Now, turning your attention to what's  
22 underneath that section that's for Segment 2307, is it  
23 correct to say that chloride was -- chloride in the  
24 water was identified as an impairment in this  
25 particular segment?



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IN THE SUPREME COURT OF THE UNITED STATES  
BEFORE THE OFFICE OF THE SPECIAL MASTER  
HON. MICHAEL J. MELLOY

STATE OF TEXAS )  
)  
Plaintiff, )  
) Original Action Case  
VS. ) No. 220141  
) (Original 141)  
STATE OF NEW MEXICO, )  
and STATE OF COLORADO, )  
)  
Defendants. )

THE STATE OF TEXAS :  
COUNTY OF HARRIS :

I, HEATHER L. GARZA, a Certified Shorthand Reporter in and for the State of Texas, do hereby certify that the facts as stated by me in the caption hereto are true; that the above and foregoing answers of the witness, ROBIN CYPHER, to the interrogatories as indicated were made before me by the said witness after being first remotely duly sworn to testify the truth, and same were reduced to typewriting under my direction; that the above and foregoing deposition as set forth in typewriting is a full, true, and correct transcript of the proceedings had at the time of taking of said deposition.

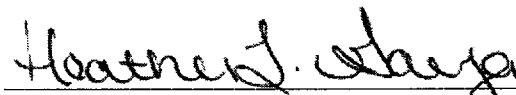
I further certify that I am not, in any capacity, a regular employee of the party in whose

1 behalf this deposition is taken, nor in the regular  
2 employ of this attorney; and I certify that I am not  
3 interested in the cause, nor of kin or counsel to  
4 either of the parties.

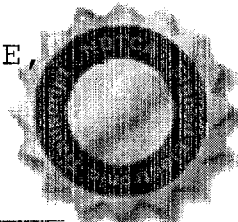
5  
6 That the amount of time used by each party at  
7 the deposition is as follows:

8 MR. ROBLES - 01:52:10  
9 MS. BARFIELD - 00:00:00  
10 MR. DUBOIS - 00:00:00  
11 MR. WALLACE - 00:00:00  
12 MS. BARNCASTLE - 00:00:00

13 GIVEN UNDER MY HAND AND SEAL OF OFFICE,  
14 this, the 8th day of October, 2020.



15 HEATHER L. GARZA, CSR, RPR, CRR  
16 Certification No.: 8262  
17 Expiration Date: 04-30-22



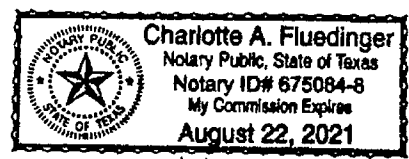
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S I G N A T U R E   O F   W I T N E S S

I, ROBIN CYPHER, solemnly swear or affirm under the pains and penalties of perjury that the foregoing pages contain a true and correct transcript of the testimony given by me at the time and place stated with the corrections, if any, and the reasons therefor noted on the foregoing correction page(s).

*Robin Cypher*  
\_\_\_\_\_  
ROBIN CYPHER



*Charlotte A. Fluedinger*

Job No. 65506