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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF ADMINISTRATIVE LAW JUDGES	E X H I B I T S COMPLAINANT'S EXHIBITS: IDENTIFIED RECEIVED
IN THE MATTER OF: ) ) No.: CWA-07-2018-0095	AX-10, 5B 330 330
C&S ENTERPRISE, LLC. )	AX-10, 7B 333 333
	AX-10, 8B 335 335
Courtroom 145 U.S. District Courthouse	AX-10, 9A 339 339
123 East Walnut Street. Des Moines, Iowa 50309	AX-10, 12A 340 340
Wednesday, October 3, 2018	AX-10, 14A 342 342
The parties met, pursuant to the notice, at	,
9:00 a.m.	AX-10, 18A 348 348
BEFORE: HONORABLE SUSAN L. BIRO Administrative Law Judge	AX-10, 19B 351 351
APPEARANCES:	AX-10, 20A 352 352
For the Agency: CHRIS MUEHLBERGER, Esquire	AX-10, 21B 354 354
BRITT BIERI, Esquire U.S. Environmental Protection Agency	AX-10, 22A 355 355
Region 7 11201 Renner Boulevard	AX-24A 365 365
Lawrence, Kansas 66219	AX-26, 2A 337 337
(913) 551-7697 For the Respondent:	AX-29, 2A 359 359
ELDON McAFEE, Esquire Brick Gentry P.C. 6701 Westown Parkway, Suite 100 West Des Moines, Iowa 50266 (515) 271-5916	AX-31, Appendix B, 310 310 28A
Page 276 CONTENTS VOIR WITNESSES: DIRECT CROSS REDIRECT RECROSS DIRE For the Agency: Peter Stokely 280 371 429 For the Respondent: Scott Morrow 440 501 632	Page 278EXHIBITSRESPONDENTSIDENTIFIEDRECEIVEDRX-1 through 5470470RX-6471471

	Page 279		Page 281
1	P R O C E E D I N G S	1	A Eight years.
2	(9:00 a.m.)	2	Q And would that take us back in time to about
3	JUDGE BIRO: Okay. Is there any preliminary	3	the time you graduated college?
4	matters to address before we continue?	4	A Correct.
5	MR. BIERI: None from EPA, Your Honor.	5	Q Okay. What's your current job title at EPA?
6	MR. McAFEE: No, Your Honor. Thank you.	6	A The job title is environmental scientist.
7	JUDGE BIRO: Okay, thank you, gentlemen.	7	Q Okay. Your CV, which is marked as AX-6,
8	Would the Agency like to call its next	8	says that you are also the Clean Water Act, Section
9	witness?	9	404 coordinator, is that right?
10	MR. BIERI: Thank you. We call Pete	10	A Right. Yes, that's part of what I do
11	Stokely.	11	Q Okay.
12	JUDGE BIRO: Mr. Stokely, would you please	12	A at headquarters.
13	stand in the witness box while the court reporter	13	Q Can you describe your responsibilities
14	swears you in?	14	within or under that umbrella?
15	Whereupon,	15	A Well, mainly it's running a monthly phone
16	PETER STOKELY	16	call with regional staff in the Section 404
17	having been duly sworn, was called as a	17	enforcement program, and also, you know, sending out
18	witness and was examined and testified as follows:	18	information, updates to my mailing list and, you know,
19	JUDGE BIRO: Please be seated.	19	running the call, and I am most recently coordinating
20	THE COURT REPORTER: Could you state your	20	a national meeting that we had in Chicago.
21	name and spell it for the record, please?	21	Q And these are all on 404 issues?
22	THE WITNESS: Okay. My name is Peter	22	A Yes.
23	McDonald Stokely, and the last name is S-T-O-K-E-L-Y.	23	Q Okay. And what about your other
24	THE COURT REPORTER: Thank you.	24	responsibilities within the Agency since you've been
25	JUDGE BIRO: Please be seated, Mr. Stokely.	25	at headquarters?
	Page 280		Page 282
1	Page 280	1	Page 282
1	DIRECT EXAMINATION	1	A Well, I continue to do technical case
2	DIRECT EXAMINATION BY MR. BIERI:	2	A Well, I continue to do technical case support, case development, through photo
2 3	DIRECT EXAMINATION BY MR. BIERI: Q Good morning, Mr. Stokely.	2 3	A Well, I continue to do technical case support, case development, through photo interpretation and mapping. That's Clean Water
2 3 4	DIRECT EXAMINATION BY MR. BIERI: Q Good morning, Mr. Stokely. A Good morning.	2 3 4	A Well, I continue to do technical case support, case development, through photo interpretation and mapping. That's Clean Water Section 404 enforcement mainly, and besides that
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1	Where did you go to college?	1 co-authored a couple articles that dealt with the use
2	A I went to West Virginia University.	2 of aerial photo interpretation, Geographic Information
3	Q All right. And did you take classes in	3 Systems for environmental forensics or, you know,
4	photo interpretation there?	4 discovering conditions that were that occurred in
5	A Yes. As part of the I was a forestry	5 the past and things like that.
6	major, so as part of the forestry curriculum there was	6 Q Okay. Was that published in the by the
7	aerial photo interpretation classes.	7 American Bar Association, or do you know?
8	Q All right. I think I know the answer to	8 A The most recent one was published by the
9	this, but do you have any particular areas of	9 American Bar Association.
10	expertise, in your mind?	10 Q And can you describe the relationship
11	A Well, since I mean, more recently, I	11 between Section 404 of the Clean Water Act and aerial
12	mean, I guess over most of my career I started as a	12 interpretation?
13	photo interpreter for the Superfund Program, looking	13 A Well, aerial photo interpretation is a tool
14	at hazardous waste sites, but that was only for about	14 that can support multiple programs and multiple
15	a year. Since then it's been primarily Clean Water	15 disciplines. In terms of the Clean Water Act, Section
16	Act, Section 404, either mapping wetlands, mapping	16 404, since we're regulating the discharge of dredge or
17	streams, or helping develop enforcement cases, Section	17 fill material into wetlands or other waters, the photo
18	404 enforcement cases.	18 interpretation aspect comes in handy for identifying
19	Q Okay. How many Section 404 enforcement	19 and mapping wetlands, streams, and streams, the
20	cases do you think you've worked on over the past 30	20 connections between the wetlands and the streams.
21	years, ballpark?	21 And then over time, you can see changes to
22	A You know, a hundred maybe.	22 those wetlands or streams, either from manmade or
23	Q Okay. Are there matters touching on 404	23 natural changes, through photo interpretation.
24	issues that may not be enforcement cases that you've	24 Q And you talked, when you were discussing one
25	worked on outside of those hundred?	25 of your publications, about GIS. What does GIS mean?
	D	D 000
	Page 284	Page 286
1	Page 284	Page 286
1	A Yes.	1 A GIS is Geographic Information Systems.
2	<ul><li>A Yes.</li><li>Q Okay. In the course of your work for the</li></ul>	<ol> <li>A GIS is Geographic Information Systems.</li> <li>Q And what is that?</li> </ol>
2 3	A Yes. Q Okay. In the course of your work for the last 30 years at EPA, can you estimate or approximate	<ol> <li>A GIS is Geographic Information Systems.</li> <li>Q And what is that?</li> <li>A Well, it's a that's a computer-based</li> </ol>
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	Page 287		Page 289
1	Q Have you ever been disqualified by a court	1	A As my salary as a federal government
2	as an expert?	2	employee.
3	A No.	3	Q Okay. Nothing extra?
4	Q We're going to get into this in more detail,	4	A No.
5	but can you just kind of generally describe how you	5	Q I want to talk about some general terms that
6	use your expertise in aerial interpretation in	6	you use in your report and that we've been using in
7	analyzing water bodies with respect to the Clean Water	7	court the last day.
8	Act? Kind of what you do.	8	Can you describe the difference between an
9	A Well, I mean, the first the first step	9	intermittent and ephemeral water body?
10	would be someone identifies a particular area that	10	A Well, as a in terms of how I would define
11	they're interested in looking at, a site or an area,	11	them, I guess starting with the ephemeral type of
12	and then I would and they ask me to get involved,	12	stream, it's a it's a stream or a water body that
13	then I would begin acquiring aerial photography and	13	flows in response to rainfall events primarily. The
14	other maps and other data of the area.	14	rainfall stops, the ephemeral stream quits flowing.
15	So, you know, it sort of starts with the	15	Intermittent streams also respond to
16	identification of a site, the acquisition of aerial	16	rainfall events but they have a groundwater component
17	photos and other information that's relevant, and then	17	to it, at least for some parts of the year, so they
18	analyzing it.	18	would flow longer, they would flow as a result of
19	When I use the Geographic Information System	19	rainfall events but also groundwater that would
20	as my tool for viewing and analyzing the aerial photos	20	contribute flow when it's not in the periods when
21	and the other data so, you know, acquisition and	21	it's not raining.
22	analysis, you know, and frequently the analysis is	22	Q Do ephemeral streams typically have
23	were there wetlands, how you know, how long have	23	interaction with groundwater?
24	they been there, how have they changed, are the	24	A Yes. The groundwater table an ephemeral
25	hydrologically connected to other waters. And then,	25	stream intersects the higher groundwater table, at
	Page 288		Page 290
		1	rage 290
1	you know, have there been more recent changes or	1	least at certain times of the year.
1 2	you know, have there been more recent changes or impacts to them, so that's typically what I'm asked to	1 2	_
			least at certain times of the year.
2	impacts to them, so that's typically what I'm asked to	2	least at certain times of the year. Q Okay. And then a perennial stream, what is
2 3	impacts to them, so that's typically what I'm asked to look for and analyze.	2 3	least at certain times of the year. Q Okay. And then a perennial stream, what is that?
2 3 4	impacts to them, so that's typically what I'm asked to look for and analyze. And then, you know, form opinions or results	2 3 4	<ul><li>least at certain times of the year.</li><li>Q Okay. And then a perennial stream, what is that?</li><li>A A perennial stream is a stream that flows</li></ul>
2 3 4 5	impacts to them, so that's typically what I'm asked to look for and analyze. And then, you know, form opinions or results and draft a report.	2 3 4 5	<ul><li>least at certain times of the year.</li><li>Q Okay. And then a perennial stream, what is that?</li><li>A A perennial stream is a stream that flows year-round. It also responds to rainfall events and</li></ul>
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1	themselves in the topography of land. They have water	1	able to see water in an aerial image definitive of
2	you know, you can determine watershed size and	2	what type of stream it would be?
3	compare that.	3	A No.
4	Q What do you mean by curvilinear?	4	Q The case we're here to discuss is the C&S
5	A Well, you know, streams are not unless	5	Enterprise case. Do you remember how you first
6	they're ditches, are not linear. They curve, but I	6	learned of this matter, sir?
7	use this term "curvilinear". They're curving but	7	A Yes. I received an email from Delia Garcia,
8	linear, they go from point A to point B.	8	you know, sending me a map, sending some other
9	Q Okay. In your report, which we'll talk	9	information, and asking me what I thought about this.
10	about quite a bit later, which is AX-31, you talk	10	Q All right. And I think I have that. I'm
11	about dark photographic tones. How do those play into	11	going to show you what's been marked as AX-13. This
12	your analysis?	12	is page 1.
13	A Well, water exhibits dark photographic tones	13	Is that the email that you received?
14	on aerial photography. Water, soil, moisture tend to	14	A Yes.
15	have darker photographic tones. And so in terms of a	15	Q Okay. I'm going to zoom out a little bit.
16	stream, you you know, if there is water in there,	16	Everyone here knows I messed this up yesterday, so
17	you can see it, it could have a dark photographic	17	sensitive about it.
18	linear tone. You know, shadow can also create a dark	18	Okay. Can you just kind of generally
19	tone on an aerial photograph. But water tends to	19	describe the contents of this email?
20	absorb light more and creates a dark signature.	20	A So, the bottom part is her email to me,
21	Q Are wet areas on a photo typically darker as	21	discussing this case, and she sent me some
22 23	well?	22 23	information. It looks like she's attached a
23 24	A They are. Wet soils, moist soils are darker than dry soils.	23	PowerPoint presentation, which was contained aerial photographs.
25	Q All right. Are you able to observe features	25	Q Did you review that PowerPoint presentation?
20		20	
	Page 292		Page 294
1	Page 292 of a bed and bank in a stream through aerial imagery,	1	Page 294 A Yes.
1 2	of a bed and bank in a stream through aerial imagery, if you can see it?	1 2	<ul><li>A Yes.</li><li>Q All right. And was that the end of your</li></ul>
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	Page 295		Page 297
1	A Yes.	1	them yourself versus relying upon others?
2	Q Okay. And that's Exhibit 31. What did you	2	A Well, I mean, in the case of a PowerPoint
3	mean by relatively permanent in AX-13?	3	presentation, for instance, it's the image that I
4	A Well, relatively permanent is, as I used it		could acquire somewhere else has probably been clipped
5	then, it's a relatively permanent geographic feature.	1	to a smaller geographic area. I don't know what the
6	You know, it's been around a long time. I could tell		resolution preservation aspects of it would be in the
7	by the aerial photos, and also mapped as intermittent		PowerPoint, so I like to go back to the original data
8	by the U.S. Geological Survey. You know, I put those		and get it; you know, the original resolution data.
9	factors together and considered it to be relatively	9	Q Did you do that with every single photo
10	permanent in flow as well, at least in terms of the	10	with all of the photos that you were provided copies
11	guidance that the Agency has put out interpreting what		of from EPA?
12	relatively permanent is, which is seasonal flow.	12	A Yes.
13	Q And did anything you reviewed after the date	13	Q Can you tell us the sources that you recall
14	of this email change your opinion that this was a	14	from which you you acquired images? Excuse me.
15	relatively permanent water?	15	A Right. So, the primary sources would be the
16	A No.	16	U.S. Geological Survey, state data warehouses. In
17	Q Can you describe for us what you mean by the	1	this case it was Ohio State University Iowa State
18	term in your report "watershed"?	1	University, I'm sorry. There is a private vendor of
19	A Watershed?	1	satellite images called Digital Globe, and then
20	Q Yes.	1	there's a private vendor of low-altitude oblique
21	A Watershed, watershed is the area of land		aerial photography named Pictometry, called
22	where when precipitation falls, it's the area that	1	Pictometry. And then so those are the sources I
23	gathers that moisture and rainfall and runoff and puts		used in this case.
24	it in a you know, points it downstream to a	24	Q Okay. And I know these terms are familiar
25	tributary. It's the area of a that contributes to	25	to you, but what does oblique mean?
	-		
	Dama 200		
	Page 296		Page 298
1	a tributary.	1	Page 298 A So, oblique is an aerial photograph that's
1 2	a tributary. Q Okay. Is that precipitation and groundwater	2	A So, oblique is an aerial photograph that's taken on an angle. Most aerial photographs are taken
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1	matter and preparing your report, did you look at	1	helps you understand stream flow. So, the
2	other information other than images?	2	precipitation just helps you understand the area and
3	A Yes.	3	what you might expect in the way of stream flow.
4	Q What else did you look at?	4	Q Do you recall the average precipitation
5	A So, I looked at U.S. Geological Survey maps.	5	based on the data you reviewed of the Deep River,
6	I looked at the National Hydrography database, which	6	Iowa, area?
7	is USGS's digital stream database. There was LIDAR	7	A Yes. In this case I believe it was 37
8	imagery available, and I looked at some of that.	8	inches annually, on average.
9	There was also stream stats, which is another U.S.	9	Q And do you draw any conclusions from the
10	Geological Survey application to map out the watershed	10	annual rainfall of approximately 37 inches and the
11	of this small tributary. I can't think of what other	11	size of this watershed, how that plays into this
12	off the top of my head.	12	matter?
13	Q And in your report did you try to include	13	A Well, I've done this kind of comparison, you
14	everything that you referenced everything that you	14	know, throughout my career in terms of, you know,
15	reviewed?	15	watershed size and annual precipitation. So, that's
16	A Yes.	16	what I did here, and what I concluded is the
17	Q All right. Did you look at any photographs	17	precipitation in this part of Iowa is similar to where
18	that appeared to you to be taken from the ground at	18	I live in Virginia. We get about 39 inches, so it's
19	the facility or at this property?	19	fairly moist, fairly wet, consistent throughout the
20	A Yes.	20	months pretty consistent.
21	Q You referenced, I think it was the National	21	And then I factored that into the watershed
22	Hydrog Hy	22	of approximately 100 acres and, you know, thought
23	A Hydrography.	23	about that and compared that to other sites and
24	Q Hydrography database. What is that?	24	streams that I've looked at, and that, you know,
25	A So, that's the U.S. Geological Survey's	25	helped form my opinion about this stream being an
	Page 300		Page 302
1	Page 300 digital steam mapping. So, it's	1	Page 302 intermittent stream.
1 2	_	1 2	
	digital steam mapping. So, it's	1	intermittent stream.
2	<ul><li>digital steam mapping. So, it's</li><li>Q How did that help you in this case?</li><li>A Well, whenever I'm looking at tributaries, I</li><li>like to see what the U.S. Geological Survey has said</li></ul>	2	intermittent stream. Q Okay. Did you do a site visit in this case to actual on-the-ground? A No.
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1	the same today versus what they were before 2015?	1	geographically when you make that statement?
2	A Yes.	2	A Oh, west of the 100th parallel or whatever.
3	Q Okay. But you did look at photographs of	3	Q What states does that run through?
4	the ground that others took following the fill,	4	A Oh.
5	correct?	5	Q Sorry.
6	A Yes.	6	A You know, western Kansas where the
7	Q Did those ground photographs in any way	7	precipitation starts dropping off into the, you know.
8	influence your opinions in this case?	8	10 to 15 inches a year and then less.
9	A Well, they helped me I remember a couple	9	Q Are you able to pull up on your computer
10	of them. You know, one showed some sort of drop inlet	10	your ArcGIS program and just kind of give us a little
11	where water would flow into a pipe system. I saw some	11	run-through of how you use it?
12	pictures of the tributary upstream from the impacts,	12	A Yes.
13	some of the conditions and features up there. So,	13	Q Okay. Let's see if we can pull this up, and
14	they helped me just get a better understanding of this	14	once it gets set up, I'll ask you a couple questions,
15	tributary and what happened.	15	okay?
16	Q I want to talk a little bit about USGS.	16	A Okay. I mean, it's set up now. Maybe I'll
17	What is the USGS?	17	just zoom out a little bit so that there is sort of a
18	A The USGS is the U.S. Geological Survey.	18	larger geographic area.
19	Q All right. And what do they do with respect	19	Q Okay. Can you just kind of just take us
20	to streams such as the one at issue here?	20	through, it doesn't necessarily need to be specific to
21	A Well, they you know, a long time ago they	21	this case 'cause I'm going to run through a lot of
22	were charged to create maps of the United States, and	22	these images with you, but can you just summarize for
23	topo maps, and they also included streams and	23	us an abbreviated version of kind of what you do when
24	stream mapping on those maps. So, they map streams,	24	using ArcGIS to analyze an aerial image?
25	they map topography, they map features and they create	25	A Well, I mean, one of the first things I
	Page 304		Page 306
	Page 304		
1		1	_
1	maps. It's one of the things they do.	1	guess you can see there's a table of contents on the
2	<ul><li>maps. It's one of the things they do.</li><li>Q Do you know if the USGS has mapped the</li></ul>	2	guess you can see there's a table of contents on the left which contains all the data, all the aerial
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	Page 307		Page 309
1	more over here to the lower right-hand corner.	1	off the top of the photograph a little bit.
2	So, that's just sort of generally. And	2	Q Okay.
3	then, you know, I would use the tool to scroll around	3	(Pause.)
4	and search wider areas if I need to, and then I can	4	Okay, I am publishing this exhibit here,
5	also zoom in to areas of interest.	5	AX-31, Appendix B, page 28. You've outlined
6	Q The photographs that you're looking at, do	6	approximately the watershed. A little bit of it got
7	you know the date of that photo?	7	cut off on the top, is that right?
8	A This is July, I believe it's July 3, 2010.	8	A Yes.
9	Q Okay. And are you able to overlay layers on	9	Q All right. And if that was fully drawn and
10	top of that photograph, or on top of photographs in	10	accurate, you believe that to be about 100 acres?
11	ArcGIS?	11	A Yes.
12	A Yes.	12	Q And where does that information come from?
13	Q And can you just kind of demonstrate for us	13	A That comes from the stream stats
14	and this is going to show up odd on the record, but	14	application. I didn't explain it. The way that works
15	I just want everyone to see kind of the methods that	15	is you can put a point on the web-based
16	you employ?	16	application, which is a map base, you can put a point
17	A So, I mean, one of the things I could do	17	on any tributary and it will then and you ask it to
18	would be overlay what I've already mentioned, the NHD,	18	delineate the watershed, it will delineate the
19	the National Hydrography Data, and I don't know if you	19	watershed above that point on any tributary.
20	can see that, but a blue line has now appeared where	20	In this case, I asked it to delineate the
21	this tributary is located as well as the other	21	watershed where the unnamed tributary flows into Deep
22	tributaries, Deep Creek, and some of the others that	22	Creek.
23	are just on this image.	23	Q Okay.
24	There's also a watershed boundary I could	24	A And that's the product that comes out of it
25	put on there which we'll see part of it, but not	25	is that that purple line that I showed you earlier.
	D 200	1	
	Page 308		Page 310
1	all of it.	1	Q Okay. And this drawing that you made is
2	all of it. Q And where does the watershed boundary come	2	Q Okay. And this drawing that you made is intended to approximate the purple line, albeit the
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	Page 311		Page 313
1	BY MR. BIERI:	1	A 2018.
2	Q And we're looking at a portion of the	2	Q Okay. And so would the time period of the
3	watershed back on the ArcGIS, is that correct?	3	photographs you reviewed have spanned from the '30s to
4	A Yes.	4	2018?
5	Q Okay. And so can you describe if there	5	A Yes.
6	we go. If rain falls in this area within that	6	Q All right. Were you able to observe the
7	watershed, what will happen?	7	stream channel in every single image?
8	A Well, that's the watershed that will collect	8	A No.
9	the runoff and send it to the tributary in question.	9	Q Okay. And I believe your report says, of
10	It's the watershed of the tributary.	10	those 35 days, you were able to observe the stream
11	Q Okay. Of the unnamed tributary?	11	channel I think 18 times. Does that seem about right?
12	A Yes.	12	A Yes.
13	Q Okay. And then how is that water then, or	13	Q Okay. And do you recall of those 18 times
14	is that water then conveyed to Deep Creek?	14	you were able to observe the streams how many times
15	A Yes.	15	you saw water?
16	Q Okay. And how?	16	A I believe it was 10 instances.
17	A Through a channel or through channelized	17	Q All right. And I have this so it's okay
18	flow.	18	if you can't remember, you don't have your report in
19	Q Okay. In the tributary?	19	front of you, but do you recall what months of the
20	A Yes.	20	year of those images that you were able to observe
21	Q Okay. Now, this was an abbreviated	21	water?
22	demonstration. I want to ask you this. Did you do a	22	A I believe it ranged March, April, June, and
23	process similar to this with each and every photograph	23	July.
24	that you reviewed in this case?	24	Q All right. Did you make an effort to
25	A Yes.	25	reflect some of your observations of water in the
	Page 312		Page 314
1	Q Okay. And how much time would you spend in	1	channel and related things in your report?
2			enamier and related unings in your report.
2	ArcGIS, would you think, with each one?	2	A Yes.
3	ArcGIS, would you think, with each one? A Well, I mean, I probably spent, well, 40, 60	2 3	
		1	A Yes.
3	A Well, I mean, I probably spent, well, 40, 60	3	<ul><li>A Yes.</li><li>Q All right. And I believe Appendix A to your</li></ul>
3 4	A Well, I mean, I probably spent, well, 40, 60 hours on this case.	3 4	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix
3 4 5	<ul><li>A Well, I mean, I probably spent, well, 40, 60</li><li>hours on this case.</li><li>Q Okay. And what portion of that do you think</li><li>was looking at GIS photos?</li><li>A Well, a good deal of it was. I mean, part</li></ul>	3 4 5	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have
3 4 5 6	<ul><li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li><li>Q Okay. And what portion of that do you think was looking at GIS photos?</li><li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would</li></ul>	3 4 5 6	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that? A Yes.
3 4 5 6 7	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> </ul>	3 4 5 6 7	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that? A Yes. (Pause.)
3 4 5 6 7 8 9 10	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus</li> </ul>	3 4 5 6 7 8 9 10	<ul> <li>A Yes.</li> <li>Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix</li> <li>A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that?</li> <li>A Yes. <ul> <li>(Pause.)</li> </ul> </li> <li>Q Okay. Okay, the column entitled "Water In</li> </ul>
3 4 5 6 7 8 9 10 11	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus photographs. On how many of those photographs were</li> </ul>	3 4 5 6 7 8 9 10 11	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that? A Yes. (Pause.) Q Okay. Okay, the column entitled "Water In The Channel", you would use three terms: "no,"
3 4 5 6 7 8 9 10 11 12	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus photographs. On how many of those photographs were you able to observe at least a portion of this stream?</li> </ul>	3 4 5 6 7 8 9 10 11 12	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that? A Yes. (Pause.) Q Okay. Okay, the column entitled "Water In The Channel", you would use three terms: "no," "probable" and "yes". What did you mean by no in your
3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus photographs. On how many of those photographs were you able to observe at least a portion of this stream?</li> <li>A Well, I was able to observe this tributary</li> </ul>	3 4 5 6 7 8 9 10 11 12 13	A Yes. Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that? A Yes. (Pause.) Q Okay. Okay, the column entitled "Water In The Channel", you would use three terms: "no," "probable" and "yes". What did you mean by no in your report?
3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus photographs. On how many of those photographs were you able to observe at least a portion of this stream?</li> <li>A Well, I was able to observe this tributary on all, all of them.</li> </ul>	3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A Yes.</li> <li>Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that?</li> <li>A Yes. <ul> <li>(Pause.)</li> <li>Q Okay. Okay, the column entitled "Water In The Channel", you would use three terms: "no,"</li> </ul> </li> <li>"probable" and "yes". What did you mean by no in your report?</li> <li>A No meant that I couldn't see water in the</li> </ul>
3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus photographs. On how many of those photographs were you able to observe at least a portion of this stream?</li> <li>A Well, I was able to observe this tributary on all, all of them.</li> <li>Q Okay. And those 35-some odd photographs, do</li> </ul>	3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A Yes.</li> <li>Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that?</li> <li>A Yes. <ul> <li>(Pause.)</li> <li>Q Okay. Okay, the column entitled "Water In The Channel", you would use three terms: "no,"</li> </ul> </li> <li>"probable" and "yes". What did you mean by no in your report?</li> <li>A No meant that I couldn't see water in the channel.</li> </ul>
3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A Well, I mean, I probably spent, well, 40, 60 hours on this case.</li> <li>Q Okay. And what portion of that do you think was looking at GIS photos?</li> <li>A Well, a good deal of it was. I mean, part of it was report writing, but a good deal of it would have been the analysis aspect.</li> <li>Q All right. You looked at 35-plus photographs. On how many of those photographs were you able to observe at least a portion of this stream?</li> <li>A Well, I was able to observe this tributary on all, all of them.</li> <li>Q Okay. And those 35-some odd photographs, do you know what time period they span?</li> </ul>	3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>A Yes.</li> <li>Q All right. And I believe Appendix A to your report talks a little bit about that, and in Appendix A to your report, AX-31, starting on page 23, you have listed image date, water in channel and notes, and you've got three columns. Do you recall that?</li> <li>A Yes. <ul> <li>(Pause.)</li> </ul> </li> <li>Q Okay. Okay, the column entitled "Water In The Channel", you would use three terms: "no,"</li> <li>"probable" and "yes". What did you mean by no in your report?</li> <li>A No meant that I couldn't see water in the channel.</li> <li>Q Okay. Does that mean that you're opining</li> </ul>
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		-	
	Page 315		Page 317
1	the time of year, heavily vegetated or what have you,	1	Q Can you see that, Mr. Stokely?
2	would limit my ability to see the channel and see	2	A Yes.
3	water in the channel.	3	Q This resolution may not be as good as what
4	Q Okay. And it looks under notes, you also	4	you're used to on a computer. What's the date of this
5	included some notes about precipitation, is that	5	image?
6	right?	6	A This is the circa 1930s. I don't believe we
7	A Yes.	7	know exactly what the year was, but circa 1930s.
8	Q Okay. There was another phrase that I just	8	Q Okay. And did you apply the labels?
9	wanted to make sure I knew what you were talking	9	There's kind of a big label and then three other
10	about, is "canopy limiting". You can see it where	10	labels. Did you apply those?
11	right here under 423.94.	11	A No.
12	A Yes.	12	Q Okay. In your review of this case, do you
13	Q What does that mean?	13	have any reason to dispute the accuracy of the
14	A So, I think I was just using these were	14	location of any of the labels?
15	notes kind of like I was taking as I was doing	15	A No.
16	analysis, so I was using the term "canopy" or "season"	16	Q Okay. Can you describe the characteristics
17	probably interchangeably.	17	you see or what you see in this photo from an aerial
18	Q Okay. And you used the term "yes" for water	18	interpretation perspective?
19	in the channel. What does that mean?	19	A Well, you can see the unnamed tributary in
20	A Yes means I believe I actually saw water in	20	question and I can't point to this, can I?
21	the channel.	21	Q You can draw actually, you can draw on
22	Q Okay. And the phrase "probable", what does	22	that.
23	that mean in your report on this table in Appendix A	23	JUDGE BIRO: Yes, you can touch the screen.
24	of Exhibit 31?	24	THE WITNESS: I can touch the screen?
25	-	1	
23	A So, probable is more of a you know, I	25	MR. BIERI: Yes.
	Page 316	25	MR. BIERI: Yes. Page 318
1		1	
	Page 316		Page 318
1	Page 316 believe there is a good chance there's water in there.	1	Page 318 THE WITNESS: Okay. Well, the unnamed
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sorry, so he can see the full -- thank you.

BY MR. BIERI:

24 25 24 Q Okay. I'm going to now show you AX-10, page
25 2, looking at --

	Page 319		Page 321
1 .	A So, how do we clear these, though?	1	Q All right. And do you know where this one
2	Q Oh, I can clear them here. Sorry. Got it.	2	was sourced?
	I got it.	3	A This says USDA, Department of Agriculture.
4	We're now looking at AX-10, page 2. It	4	Q Okay. And can you describe for us what you
5 look	as like we're skipping ahead three decades. What's	5	see in this photograph related to the tributary?
	date on this photo?	6	A Once again, you can see the unnamed
7	A This is circa 1960s.	7	tributary flowing from northwest to southeast and into
8	Q All right. Can you tell us what you see in	8	Deep Creek, and you can see some of the same
9 this	photograph?	9	buildings, roads, fields, Deep Creek. There's another
10	A So, once again you can see the tributary	10	tributary coming into Deep Creek right about there.
11 diag	onally going from the northwest to the southeast.	11	JUDGE BIRO: And there?
12 I wo	on't I'll try not to draw on top of it. And	12	THE WITNESS: I'm sorry. To the eastern
13 then	flowing to Deep Creek.	13	side or the right-hand side of the photograph.
14	Now that clump of trees appears to have some	14	BY MR. BIERI:
	dings where the the confinement building	15	Q Just above the label that says AX-10?
	print is, and you can see the road network and the	16	A Yes.
-	cultural land, the fields.	17	Q Okay. Do you have any other observations of
	Q And you had talked earlier about curvilinear	18	that photograph?
	ures and the riparian corridor, and things of that	19	A Well, I mean, you can see some of the
	re. Do you see any of those features on this	20	structures near the confinement building footprint,
-	tograph?	21	the road network, but, you know, mainly it's the fact
	A Yes. So, the tributary itself is what I cribe as curvilinear. In places it's linear down	22 23	that here you can see the tributary again.
	the bottom of it. In other places it's curving,	23	Q Okay. And are you able to on this photograph make out what you see to be a defined
	you can see the vegetation, the texture, the	25	channel or not?
20 unu	you can see the vegetation, the texture, the		
	Page 320		Page 322
			Tage 522
1 roug	gher texture of the vegetation; the shadow being	1	A I can see I can't see the channel itself
2 cast	by the vegetation, and so that's the curvilinear	1 2	
2 cast	by the vegetation, and so that's the curvilinear ure that helps me identify that as a tributary.		A I can see I can't see the channel itself
2 cast 3 feat 4	by the vegetation, and so that's the curvilinear ure that helps me identify that as a tributary. Deep Creek is similar. You know, it's got a	2	A I can see I can't see the channel itself with this resolution and the vegetation cover. You can see the path where the channel would be underneath the vegetation.
2 cast 3 feat 4 5 ripa	by the vegetation, and so that's the curvilinear ure that helps me identify that as a tributary. Deep Creek is similar. You know, it's got a rian corridor, it's obscuring the creek channel,	2 3 4 5	<ul><li>A I can see I can't see the channel itself</li><li>with this resolution and the vegetation cover. You</li><li>can see the path where the channel would be underneath</li><li>the vegetation.</li><li>Q Okay. I'm going to flip this over to AX-10,</li></ul>
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	Page 323		Page 325
1	Q Okay. All right, I'm going to show you	1	THE WITNESS: With a marker.
2	now we're going to move into the 2000s, I believe.	2	MR. BIERI: Thank you.
3	This is AX-10, page 5.	3	BY MR. BIERI:
4	Okay. This appears to be from April 4,	4	Q Mr. Stokely, I think you've only done it
5	2009. The image source says Pictometry. What is that	5	once, but if you say "Deep Run", do you mean Deep
6	again?	6	Creek?
7	A Yes. Pictometry is a vendor of oblique	7	A Yes.
8	aerial photography, and this one is an oblique image.	8	Q All right. Thank you.
9	It's not perfectly it's not looking straight down	9	Okay, I'm going to clear this screen. Okay,
10	on the ground. It's looking at an angle.	10	are you able to see this photograph okay?
11	Q All right. And can you describe for us the	11	A Yes.
12	conditions that you see in this photograph? And I'm	12	Q All right. Kind of want to start that again
13	probably going to have you actually mark this with a	13	and have you describe what you're talking about, and
14	pen, but you can describe it first.	14	then if you make markings on them, I might instruct
15	A Well, again you can see the tributary	15	you to put some labels on what you're what you're
16	flowing from the northwest to the southeast. In this	16	marking.
17	instance, being lower altitude and higher resolution,	17	A Okay.
18	you can see some of the channel characteristics moving	18	Q Can you describe what you see here again?
19	from the northwest to the southeast. So, sort of in	19	A Right. So, here once again is the unnamed
20	the upper-central or upper left-central part of the	20	tributary flowing sort of diagonally across the center
21	photograph, you can see some of the meandering nature	21	of the photograph largely.
22	of the tributary.	22	Q All right.
23	And then you can see the connection, follow	23	A Up here in the upper parts where I'm drawing
24	the tributary down to Deep Run, and it seems like	24	an arrow, that's sort of that's pointing to some of
25	there's there appears to be a lot of moisture in	25	the channel, the meandering channel. Then it flows
	Page 324		Page 326
1		1	
1 2	the area in general. I'm circling an area in the far	1 2	through the wooded area to the south and east, and
			through the wooded area to the south and east, and then it straightens out, and this is an interesting
2	the area in general. I'm circling an area in the far right-hand corner which appears to be moist. You can	2	through the wooded area to the south and east, and
2 3	the area in general. I'm circling an area in the far right-hand corner which appears to be moist. You can see some additional tributaries in the far upper	2 3	through the wooded area to the south and east, and then it straightens out, and this is an interesting photo here because what I'm pointing to with that
2 3 4	the area in general. I'm circling an area in the far right-hand corner which appears to be moist. You can see some additional tributaries in the far upper right, Deep Run in the bottom left.	2 3 4	through the wooded area to the south and east, and then it straightens out, and this is an interesting photo here because what I'm pointing to with that arrow in the lower center portion is where the channel
2 3 4 5	the area in general. I'm circling an area in the far right-hand corner which appears to be moist. You can see some additional tributaries in the far upper right, Deep Run in the bottom left. Q Are you able to see a defined channel in	2 3 4 5	through the wooded area to the south and east, and then it straightens out, and this is an interesting photo here because what I'm pointing to with that arrow in the lower center portion is where the channel is, but this is one of the photographs where I saw
2 3 4 5 6	the area in general. I'm circling an area in the far right-hand corner which appears to be moist. You can see some additional tributaries in the far upper right, Deep Run in the bottom left. Q Are you able to see a defined channel in this photograph?	2 3 4 5 6	through the wooded area to the south and east, and then it straightens out, and this is an interesting photo here because what I'm pointing to with that arrow in the lower center portion is where the channel is, but this is one of the photographs where I saw water flowing, at least what I believed to be water
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A Oh, right, right. So, that's an area that 24 then D is just that sort of prominent ponded area,
25   ponds frequently. It's like a shallow trench, and so   25   depression.
Page 328 Page 330
1 that it's exhibiting dark photograph tones, there's 1 MR. BIERI: Thank you. Judge, I remarked
2 standing water in that. That feature appears with 2 this as AX-10, 5A. I would like to admit it into
3 standing water on several aerial photographs. 3 evidence.
4 Q Okay. And are you able to compare the color 4 JUDGE BIRO: We already have an AX-10, 5A.
5 or the features of that with water in the channel to 5 MR. BIERI: B. Sorry. AX-10, 5B.
6 determine whether whether you see water in the 6 MR. McAFEE: No objection.
7 channel? 7 JUDGE BIRO: Okay.
8 A Well, it's generally dark photographic tone. 8 MR. BIERI: Thank you.
9 In this case there is some other greens, light greens 9 JUDGE BIRO: AX-10, 5B is admitted into the
10 in there, but mainly it's the cl the linear, 10 record.
11 curvilinear dark-tone feature. 11 (The document referred to was
12 Q Okay. Do you have any other observations 12 marked for identification as
13about this photograph?13Agency's Exhibit No. AX-10,
14AThose are the main ones. I mean, we can145B, and was received in
15 still see the different wooded areas and the 15 evidence.)
16 confinement barn footprint and those type of things. 16 BY MR. BIERI:
17QOkay. And is this an oblique image?17QOkay, Mr. Stokely, I am now handing you
18AYes.18what's been marked as AX-10, page 7. Can you describe
19QOkay. All right, I'm going to show you19what we're looking at here?
20   now   20   A   Yes, this is a vertical satellite image
21 MR. McAFEE: Excuse me. Excuse me, Britt. 21 dated March 14, 2010.
22     MR. BIERI: Oh, sorry.     22     Q     All right. And what do you see with respect
23 MR. McAFEE: Sorry to interrupt, Your Honor. 23 to the tributary in this photograph?
24     There are some arrows on there that he has described     24     A     Well, you can see it again flowing
25 things, but they're in his testimony and I'm not sure 25 diagonally from the upper left to lower right. I'm

	Page 331		Page 333
1	going to mark a and again, that curvy meandering	1	MR. McAFEE: I was making some notes here.
2	channel is clear in that area. You can also you	2	I want to make sure.
3	can also see that, you know, fairly well see the	3	MR. BIERI: Sure. Can you see that?
4	channel and this is just a paper print, by the way.	4	MR. McAFEE: Yes, thank you. No objection,
5	You can still fairly well see the channel through the	5	Your Honor.
6	wooded area because the leaves are off, the leaves	6	MR. BIERI: All right.
7	off, and you can make out the channel characteristics	7	JUDGE BIRO: AX-10, 7B is admitted into the
8	better in that case.	8	record.
9	And you can see if you look closely you	9	MR. BIERI: Yes.
10	can see the connection. The channel in this case is	10	(The document referred to was
11	right here, B. You can observe the channel as it	11	marked for identification as
12	connects to Deep Creek.	12	Agency's Exhibit No. AX-10,
13	Q Okay. And were you able to observe water in	13	7B and was received in
14	this photograph when you looked at it on ArcGIS, at	14	evidence.)
15	least?	15	BY MR. BIERI:
16	A Yes. I'm trying you know, trying to	16	Q All right, I want to look now at AX-10,
17	differentiate between what could be shadow up in the	17	page excuse me. Page 8. What's the date of this
18	upper part. I looked closely down the lower part, and	18	photograph, sir?
19	I think in this instance and it's not super-clear	19	A This is July 3, 2010.
20	from this print, but the water that I believe I saw is	20	Q All right. And can you describe for us what
21	what I'm marking as C, and it's sort of a gray-tone	21	you're seeing in this photograph?
22	signature similar to what Deep Run was exhibiting	22	A Yes, there are some markings on here that
23	Deep Creek was exhibiting at the same time. So, that	23	I'm not sure how they got there.
24	was how I concluded water in this image.	24	Q Oh, those are bleeding through. Hold on.
25	Q All right.	25	Hold on while we get that fixed.
25	Q An fight.	2.5	Hold on while we get that fixed.
	Page 332		
	raye JJZ		Page 334
1	A Present in this image.	1	Page 334 (Pause.)
1 2	-	1 2	_
	A Present in this image.		(Pause.)
2	<ul><li>A Present in this image.</li><li>Q And are you seeing what you would term to be</li></ul>	2	(Pause.) Sorry about that. Okay, that is a clean
2 3	<ul><li>A Present in this image.</li><li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this</li></ul>	2 3	(Pause.) Sorry about that. Okay, that is a clean copy of AX-10, page 8. Can you describe for us what
2 3 4	A Present in this image. Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?	2 3 4	(Pause.) Sorry about that. Okay, that is a clean copy of AX-10, page 8. Can you describe for us what you're seeing there, Mr. Stokely?
2 3 4 5	<ul><li>A Present in this image.</li><li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li><li>A Yes.</li></ul>	2 3 4 5	(Pause.) Sorry about that. Okay, that is a clean copy of AX-10, page 8. Can you describe for us what you're seeing there, Mr. Stokely? A Yes. This is a digital blowup satellite
2 3 4 5 6	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> </ul>	2 3 4 5 6	(Pause.) Sorry about that. Okay, that is a clean copy of AX-10, page 8. Can you describe for us what you're seeing there, Mr. Stokely? A Yes. This is a digital blowup satellite image dated July 3, 2010.
2 3 4 5 6 7	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> </ul>	2 3 4 5 6 7	(Pause.) Sorry about that. Okay, that is a clean copy of AX-10, page 8. Can you describe for us what you're seeing there, Mr. Stokely? A Yes. This is a digital blowup satellite image dated July 3, 2010. Q Okay.
2 3 4 5 6 7 8	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting</li> </ul>	2 3 4 5 6 7 8	<ul> <li>(Pause.)</li> <li>Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting point of the impacted stream segment flag all the way</li> </ul>	2 3 4 5 6 7 8 9	<ul> <li>(Pause.)</li> <li>Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> <li>one. I'll point to some of the features again. At A,</li> </ul>
2 3 4 5 6 7 8 9 10	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting point of the impacted stream segment flag all the way to Deep Creek.</li> </ul>	2 3 4 5 6 7 8 9 10	<ul> <li>(Pause.) Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> <li>one. I'll point to some of the features again. At A,</li> <li>approximately A is the meandering section of the</li> </ul>
2 3 4 5 6 7 8 9 10 11	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting point of the impacted stream segment flag all the way to Deep Creek.</li> <li>A Right, with, you know, the caveat that it's</li> </ul>	2 3 4 5 6 7 8 9 10 11	<ul> <li>(Pause.) Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> <li>one. I'll point to some of the features again. At A,</li> <li>approximately A is the meandering section of the</li> <li>tributary in the upper wooded area.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting point of the impacted stream segment flag all the way to Deep Creek.</li> <li>A Right, with, you know, the caveat that it's always been hard to see the actual channel in the</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>(Pause.)</li> <li>Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> <li>one. I'll point to some of the features again. At A,</li> <li>approximately A is the meandering section of the</li> <li>tributary in the upper wooded area.</li> <li>Q And can you we have a clean copy of this</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting point of the impacted stream segment flag all the way to Deep Creek.</li> <li>A Right, with, you know, the caveat that it's always been hard to see the actual channel in the wooded zone of Deep Creek.</li> <li>Q Sure. If there is a defined bed and bank</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>(Pause.) Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> <li>one. I'll point to some of the features again. At A,</li> <li>approximately A is the meandering section of the</li> <li>tributary in the upper wooded area.</li> <li>Q And can you we have a clean copy of this</li> <li>already in the record. So, can you kind of draw in</li> <li>where you see the complete curvilinear section?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>A Present in this image.</li> <li>Q And are you seeing what you would term to be a defined bed and bank in this photograph at this tributary?</li> <li>A Yes.</li> <li>Q And is that throughout?</li> <li>A Yes.</li> <li>Q Okay. So, from the approximate starting point of the impacted stream segment flag all the way to Deep Creek.</li> <li>A Right, with, you know, the caveat that it's always been hard to see the actual channel in the wooded zone of Deep Creek.</li> <li>Q Sure. If there is a defined bed and bank channel running from basically BB Avenue (phonetic)</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15	<ul> <li>(Pause.) Sorry about that. Okay, that is a clean</li> <li>copy of AX-10, page 8. Can you describe for us what</li> <li>you're seeing there, Mr. Stokely?</li> <li>A Yes. This is a digital blowup satellite</li> <li>image dated July 3, 2010.</li> <li>Q Okay.</li> <li>A The tributary is readily visible on this</li> <li>one. I'll point to some of the features again. At A,</li> <li>approximately A is the meandering section of the</li> <li>tributary in the upper wooded area.</li> <li>Q And can you we have a clean copy of this</li> <li>already in the record. So, can you kind of draw in</li> <li>where you see the complete curvilinear section?</li> <li>A Actually trace over it?</li> </ul>
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	Page 335		Page 337
1	Q All right. Does there appear to be less	1	that channel?
2	vegetation in the lower portion of that unnamed	2	A I would expect to see that channel flowing
3	tributary in this photograph?	3	there, be flowing in there, yes.
4	A Yes. This is not quite as heavily vegetated	4	Q Flowing into Deep Creek?
5	as it was historically.	5	A Yes.
6	Q Okay. Can you see a high, ordinary high-	6	MR. BIERI: Okay. Judge, I've marked this
7	water mark on aerial imagery looking straight from	7	as AX-26, 2A, and would move to admit it into
8	above typically?	8	evidence, please.
9	A No.	9	MR. McAFEE: No objection.
10	Q Okay. But if you see a defined bed and	10	MR. BIERI: All right.
11	bank, would that be indicative that there probably is	11	JUDGE BIRO: Okay. Agency Exhibit 26, 2A is
12	a high-water mark?	12	admitted into the record.
13	A Yes.	13	(The document referred to was
14	MR. BIERI: Judge, I've marked this as AX-	14	marked for identification as
15	10, 8B. Mr. McAfee, I'll show it to you again. I	15	Agency's Exhibit No. AX-26,
16	would like to move that into evidence, please.	16	2A and was received in
17	MR. McAFEE: No objection.	17	evidence.)
18	JUDGE BIRO: Okay. Agency Exhibit 10 at	18	MR. BIERI: Thank you, Judge. Okay, I've
19	page 8B is admitted into the record.	19	got a few more to go through here.
20	(The document referred to was	20	BY MR. BIERI:
21	marked for identification as	21	Q I'm going to show you now what's been marked
22	Agency's Exhibit AX-10, 8B,	22	as AX-10, page 9. Can you tell us the date of that
23	and was received in	23	image, please?
24	evidence.)	24	A This is December 18, 2010.
25	MR. BIERI: Yes, thank you.	25	Q All right. And what are your observations
	Page 336		Page 338
1	BY MR. BIERI:	1	with respect to the tributary here?
2	BY MR. BIERI: Q I want to show you, Mr. Stokely, what's been	2	with respect to the tributary here? A Well, the similar observations as before.
2 3	BY MR. BIERI: Q I want to show you, Mr. Stokely, what's been marked as AX-26, page 2, which I believe to be a	2 3	with respect to the tributary here? A Well, the similar observations as before. There is the upper reach of the tributary is an
2 3 4	BY MR. BIERI: Q I want to show you, Mr. Stokely, what's been marked as AX-26, page 2, which I believe to be a closeup of the last photograph that we looked at, but	2 3 4	with respect to the tributary here? A Well, the similar observations as before. There is the upper reach of the tributary is an area where I'm marking A. The little meanders are a
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	Page 339		Page 341
1	(The document referred to was	1	BY MR. BIERI:
2	marked for identification as	2	Q Mr. Stokely, we're now looking at AX-10, 14,
3	Agency's Exhibit No. AX-10,	3	page 14. What's the date of this image?
4	9A and was admitted in	4	A September 16, 2014.
5	evidence.)	5	Q All right. And do you have any observations
6	MR. BIERI: Do you mind if we take a five-	6	about this one?
7	minute break, Your Honor?	7	A Well, this is a, you know, growing season,
8	JUDGE BIRO: No, of course not. We'll stand	8	mid-growing season aerial photograph, so everything is
9	in recess for five minutes.	9	vegetated pretty well. The forest canopy in the upper
10	MR. BIERI: Thank you.	10	reach is hiding the channel pretty well. That would
11	(Whereupon, a short recess was taken.)	11	be like at A. You can't really see it because of the
12	JUDGE BIRO: Okay, Mr. Bieri, please	12	trees, but where the trees diminish where I sort of
13	continue.	13	where I drew that line, you can pick up the defined
14	MR. BIERI: Thank you, Judge.	14	channel once again at B and C, indicating the presence
15	BY MR. BIERI:	15	of a channel through that lower section of the
16	Q Okay, Mr. Stokely, I am going to hand you,	16	tributary.
17	or display what's been marked as AX-10, page 12.	17	Q All right. And when you say the lower
18	What's the date of that image?	18	section, do you mean south of the line you drew all
19	A This is June 28, 2013.	19	the way to Deep Creek?
20	Q All right. And can you describe what you	20	A Yes.
21	see in this photograph with respect to the tributary?	21	MR. BIERI: All right. Judge, I've remarked
22	A Well, similar to previous photos, it's	22	this as AX-10, 14A, and would move to admit it into
23	flowing from the northwest to the southeast across the	23	evidence.
24	middle portion of the photograph, fairly dense	24	MR. McAFEE: No objection.
25	vegetation up in that area obscuring the channel	25	JUDGE BIRO: AX-10 at 14A is admitted into
	Page 340		Page 342
1	characteristics, except it may be right there at A.	1	the record.
2	characteristics, except it may be right there at A. But as you move further downstream where the	2	the record. (The document referred to was
2 3	characteristics, except it may be right there at A. But as you move further downstream where the vegetation becomes less, you can see the channel again	2 3	the record. (The document referred to was marked for identification as
2 3 4	characteristics, except it may be right there at A. But as you move further downstream where the vegetation becomes less, you can see the channel again at B, and again it's a defined channel visible at C.	2 3 4	the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10,
2 3 4 5	characteristics, except it may be right there at A. But as you move further downstream where the vegetation becomes less, you can see the channel again at B, and again it's a defined channel visible at C. So, similar to some of the previous years.	2 3 4 5	the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 14A and was received in
2 3 4 5 6	characteristics, except it may be right there at A. But as you move further downstream where the vegetation becomes less, you can see the channel again at B, and again it's a defined channel visible at C. So, similar to some of the previous years. Q All right. Is that a defined channel	2 3 4 5 6	the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 14A and was received in evidence.)
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>characteristics, except it may be right there at A. But as you move further downstream where the vegetation becomes less, you can see the channel again at B, and again it's a defined channel visible at C.</li> <li>So, similar to some of the previous years.</li> <li>Q All right. Is that a defined channel throughout, or can you tell from this picture?</li> <li>A Right. You can't see it throughout because of the obscuring vegetation, but it's you know, it's my opinion that there is a defined channel throughout.</li> <li>Q Throughout from the top of the photograph all the way to Deep Creek?</li> <li>A Yes.</li> <li>MR. BIERI: Okay. I'm going to mark it as AX-10, page 12A. Judge, I'd move to admit this into evidence.</li> <li>MR. McAFEE: No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 12A is admitted into the record.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>the record.</li> <li>(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 14A and was received in evidence.)</li> <li>BY MR. BIERI:</li> <li>Q All right, I'm now showing you AX-10, page 15, Mr. Stokely. What are we looking at here?</li> <li>A This is a March 9, 2015, image from Google, Google Earth, and again this is a being March, early March, the leaves are not out on the trees and it is very the channel characteristics are very clear at this tributary. You can see them at A. You can see where I'm drawing at B, and all you know, down in the lower reach before it flows into Deep Creek at C. So, you can see the defined channel.</li> <li>I also believe this is about the time when some of the vegetation is being cleared away from the channel.</li> <li>Q And you're pointing kind of on the channel</li> </ul>

	Daga 343		Dama 245
	Page 343		Page 345
1	know, paper print, it looked like you could see some	1	channel as a clear defined feature all the way
2	of the vegetation being cleared at D.	2	through, all the way down to the lower right. There's
3	Q At D?	3	a road crossing where I'm pointing right now. There
4	A Yeah.	4	is a culvert underneath there, and then the defined
5	Q Okay. And can you just kind of describe for	5	channel picks up and goes to Deep Creek.
6	us the difference between looking at these maps here	6	Q Okay. Do you see a defined bed and bank
7	and drawing on them versus actually looking at them	7	throughout the run of this tributary to Deep Creek in
8	how you would normally do your work in ArcGIS?	8	this photograph?
9	A Yes. I mean, this is a paper print, a	9	A Yes. Well, I'm seeing the channel very
10	xerox. It's already you know, the resolution is	10	clearly, and that would be indicative of bed and bank
11	diminished significantly. But when using the	11	feature.
12	software, you can view you know, zoom in and zoom	12	Q Okay. Are you aware of any photographs,
13	out, and you can zoom in to the point that beyond	13	aerial photographs or other photographs that were
14	the resolution of the photograph and if that's not	14	taken between March 20, 2015, and the time of the fill
15	helpful you can zoom out. But zooming in, zooming out	15	later in 2015?
16	and just panning around is it's a better way of	16	A I did not obtain any, so I don't know if
17	doing this than simply looking at this paper print.	17	there were
18	Q But, again, you had done that with every	18	Q Okay.
19	single photo which led you to your conclusions?	19	A any taken but probably not.
20	A Yes.	20	Q Did you look?
21	MR. BIERI: Okay. All right. Judge, I	21	A Yes.
22	marked this exhibit as AX-10, 15A. I would move that	22	Q Okay. And so these would be the last
23	into evidence.	23	photographs that we see existing before the tributary
24	MR. McAFEE: No objection.	24	was filled?
25	JUDGE BIRO: Agency Exhibit 10 at 15A is	25	A Yes. I would definitely I'd like to look
	Page 344		Page 346
1	Page 344 admitted into the record.	1	-
1 2	_	1	Page 346 at my reference section to make sure that's the case, but that's my recollection.
	admitted into the record.	1	at my reference section to make sure that's the case,
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2 3	admitted into the record. (The document referred to was marked for identification as	2	at my reference section to make sure that's the case, but that's my recollection. Q Okay. Now I'm going to show you what's been
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2 3 4 5	admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 15A and was received in	2 3 4 5	at my reference section to make sure that's the case, but that's my recollection. Q Okay. Now I'm going to show you what's been marked as Exhibit 10, page 18. A Yes.
2 3 4 5 6	admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 15A and was received in evidence.)	2 3 4 5 6	at my reference section to make sure that's the case, but that's my recollection. Q Okay. Now I'm going to show you what's been marked as Exhibit 10, page 18. A Yes. Q So what are we looking at here?
2 3 4 5 6 7	admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 15A and was received in evidence.) MR. BIERI: Thank you.	2 3 4 5 6 7	<ul> <li>at my reference section to make sure that's the case,</li> <li>but that's my recollection.</li> <li>Q Okay. Now I'm going to show you what's been marked as Exhibit 10, page 18.</li> <li>A Yes.</li> <li>Q So what are we looking at here?</li> <li>A It's another Pictometry image. The</li> </ul>
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	Page 347		Page 349
1	departs the trees, and then you can see it, you know,	1	from the bottom right to the upper left, and you can
2	all the way down just meandering through the little	2	see in this case a light-toned linear, curvilinear
3	valley and then	3	feature, which is the tributary, and it's clearly
4	Q You're pointing meandering through about to	4	visible and you could also see Deep Creek as a light-
5	the middle of the photograph?	5	toned feature clearly visible.
6	A Yeah, through the middle of the photograph	6	Q And does this portion of the tributary
7	on downstream following that dark linear feature	7	that's visible going into Deep Creek, does that
8	underneath the road crossing and then down to Deep	8	exhibit the characteristics of an intermittent
9	Creek.	9	tributary on the photo?
10	Q All right. And would you expect there to be	10	A Well, after looking at all the photos and
11	a defined bed and bank throughout this stretch from A,	11	all the evidence, I conclude that this is an
12	where you marked on A, all the way to Deep Creek?	12	intermittent tributary.
13	A Yes.	13	Q Okay.
14	Q And would you put a B where you believe the	14	A So this is consistent with an intermittent
15	trib enters Deep Creek?	15	tributary.
16	A Somewhere right in this general area.	16	Q All right. And can you mark for us kind of
17	Q Okay. Looking back at Exhibit, or AX-10,	17	the start of where the flow would be as A, and then
18	page 17, looking at the lower portion of the tributary	18	where it would enter into Deep Creek as B, please?
19	south of the road crossing.	19	A It becomes visible where I'm drawing the
20	A Um-hmm.	20	arrow A, it becomes visible on the frame of the
21	Q Do you see any break or what you would deem	21	photograph. And then it it looks to me like it
22	to be a break in the physical connection of this	22	flows into Deep Creek where I'm drawing that arrow at
23	tributary to Deep Creek?	23	В.
24	A No, I see a dark curvilinear feature the	24	Q All right. And do you see a continuous
25	entire length.	25	physical connection between A and B?
	Page 348		Page 350
			raye 550
1	Q Okay, thank you.	1	2
1 2	Q Okay, thank you. MR. BIERI: Judge, I've remarked AX-10, page	1	A Yes. Yes. In this case, you can almost
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2 3	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into	2 3	A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow
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2 3 4 5 6 7 8 9 10 11 12 13	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B. MR. BIERI: Correct. Move to move that into evidence, Judge.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was	2 3 4 5 6 7 8 9 10 11 12 13 14	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B. MR. BIERI: Correct. Move to move that into</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B. MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now? JUDGE BIRO: B.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.)	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B.</li> <li>MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A,</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B.</li> <li>MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI: Q Mr. Stokely, we are now looking at AX-10,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B.</li> <li>MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> <li>JUDGE BIRO: Right.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI: Q Mr. Stokely, we are now looking at AX-10, page 19. What is that a photograph of?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B. MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> <li>JUDGE BIRO: Right.</li> <li>MR. McAFEE: Do we have an AX-10</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI: Q Mr. Stokely, we are now looking at AX-10, page 19. What is that a photograph of? A It's another oblique aerial photograph of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B. MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> <li>JUDGE BIRO: Right.</li> <li>MR. McAFEE: Do we have an AX-10 MR. BIERI: We do.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI: Q Mr. Stokely, we are now looking at AX-10, page 19. What is that a photograph of the lower section of the tributary. In this instance,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B.</li> <li>MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> <li>JUDGE BIRO: Right.</li> <li>MR. McAFEE: Do we have an AX-10 MR. BIERI: We do.</li> <li>MR. McAFEE: 19A? Okay. Thank you.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI: Q Mr. Stokely, we are now looking at AX-10, page 19. What is that a photograph of the lower section of the tributary. In this instance, in the lower section of that tributary centered in the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B. MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> <li>JUDGE BIRO: Right.</li> <li>MR. McAFEE: Do we have an AX-10 MR. BIERI: We do.</li> <li>MR. McAFEE: 19A? Okay. Thank you.</li> </ul>
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. BIERI: Judge, I've remarked AX-10, page 18 as AX-10, 18A, and would move to move that into evidence. MR. McAFEE: I'm sorry, Britt. Could I see it one more time? MR. BIERI: Certainly. MR. McAFEE: I was taking a note. MR. BIERI: Yes. MR. McAFEE: So, the only marking is A and B. Okay. No objection, Your Honor. JUDGE BIRO: Okay. AX-10 at 18A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10, 18A and was received in evidence.) BY MR. BIERI: Q Mr. Stokely, we are now looking at AX-10, page 19. What is that a photograph of the lower section of the tributary. In this instance,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>A Yes. Yes. In this case, you can almost make out the whole connection through that wooded area where I'm indicating near B, to the right of the arrow B.</li> <li>Q All right. What is this feature right here that I'm kind of circling?</li> <li>A This is a road. This is that, you know, road crossing that's been there for quite some time.</li> <li>Q Okay. And that's just just up the photograph from A, or up the tributary from A?</li> <li>A Yes. Downstream.</li> <li>Q Downstream. Thank you.</li> <li>JUDGE BIRO: This would be AX-10 at 19B.</li> <li>MR. BIERI: Correct. Move to move that into evidence, Judge.</li> <li>MR. McAFEE: What was the letter now?</li> <li>JUDGE BIRO: B.</li> <li>MR. McAFEE: B. Okay, because we have an A, correct?</li> <li>JUDGE BIRO: Right.</li> <li>MR. McAFEE: Do we have an AX-10 MR. BIERI: We do.</li> <li>MR. McAFEE: 19A? Okay. Thank you.</li> </ul>

	Page 351		Page 353
1	into the record.	1	even in this year of 2015, and historically. It's now
2	(The document referred to was	2	this area has been leveled and smoothed where I put
3	marked for identification as	3	the letter A, and the tributary has been put
4	Agency's Exhibit No. AX-10,	4	underground, and likewise down here where I'm marking
5	19B and was received in	5	B, the defined channel that was once there is no
6	evidence.)	6	longer present or visible.
7	BY MR. BIERI:	7	Q All right. And can you where you marked
8	Q All right, Mr. Stokely, AX-10, page 20, is	8	A, what was that again?
9	what I'm showing you. What is this image?	9	A That's sort of the location of the former
10	A It's another one of the series of Pictometry	10	tributary.
11	images of the tributary dated March 20, 2015. This	11	Q Okay. And you said that had been smoothed?
12	one is looking, I guess, sort of from the southeast	12	A Yes, smoothed.
13	towards the northwest. It's an oblique image. And	13	Q What does that mean?
14	it's showing the tributary once again, very similar to	14	A Well, it appears that the tributary has been
15	those others.	15	buried and then, you know, equipment run on top of the
16	Q You can draw on this one.	16	land just to smooth it out.
17	A Okay. I'll draw the channel as best I can	17	MR. BIERI: Okay. Judge, I marked this as
18	but it's relatively distinct. There is places where,	18	AX-10, 21B, and would like to move that into evidence.
19	you know, you can't be certain whether it goes around	19	MR. McAFEE: No objection.
20	that way or that way, but then it continues to flow or	20	JUDGE BIRO: AX-10 at 21B is admitted into
21	be distinct to the road crossing and then picks up	21	the record.
22	again after the road crossing and down towards Deep	22	MR. BIERI: Thank you.
23	Creek.	23	//
24	Q All right. So, these last few images we've	24	//
25	seen, 17, 18, 19, and 20, have all been from the same	25	//
	Page 352		Page 354
1	Page 352 date but just different angles.	1	Page 354 (The document referred to was
1 2		1 2	
	date but just different angles.		(The document referred to was
2	date but just different angles. A Different angles.	2	(The document referred to was marked for identification as
2 3	date but just different angles. A Different angles. Q All right, thank you.	2 3	(The document referred to was marked for identification as Agency's Exhibit No. AX-10,
2 3 4	<ul><li>date but just different angles.</li><li>A Different angles.</li><li>Q All right, thank you.</li><li>MR. BIERI: Judge, I've marked this as AX-</li></ul>	2 3 4	(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.) BY MR. BIERI:
2 3 4 5	<ul> <li>date but just different angles.</li> <li>A Different angles.</li> <li>Q All right, thank you.</li> <li>MR. BIERI: Judge, I've marked this as AX-</li> <li>10, 20A. I would ask to move it into evidence.</li> </ul>	2 3 4 5	(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.)
2 3 4 5 6	<ul> <li>date but just different angles.</li> <li>A Different angles.</li> <li>Q All right, thank you.</li> <li>MR. BIERI: Judge, I've marked this as AX-</li> <li>10, 20A. I would ask to move it into evidence.</li> <li>MR. McAFEE: No objection.</li> </ul>	2 3 4 5 6	(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.) BY MR. BIERI:
2 3 4 5 6 7	<ul> <li>date but just different angles.</li> <li>A Different angles.</li> <li>Q All right, thank you.</li> <li>MR. BIERI: Judge, I've marked this as AX-</li> <li>10, 20A. I would ask to move it into evidence.</li> <li>MR. McAFEE: No objection.</li> <li>MR. BIERI: Thank you.</li> <li>JUDGE BIRO: AX-10 at 20A is admitted into the record.</li> </ul>	2 3 4 5 6 7	(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.) BY MR. BIERI: Q This photograph you don't need to mark on, it's already into evidence. This is AX-10, page 22. So, disregard the bleeding through, but I just want to
2 3 4 5 6 7 8	<ul> <li>date but just different angles.</li> <li>A Different angles.</li> <li>Q All right, thank you.</li> <li>MR. BIERI: Judge, I've marked this as AX-</li> <li>10, 20A. I would ask to move it into evidence.</li> <li>MR. McAFEE: No objection.</li> <li>MR. BIERI: Thank you.</li> <li>JUDGE BIRO: AX-10 at 20A is admitted into the record.</li> </ul>	2 3 4 5 6 7 8	<ul> <li>(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.)</li> <li>BY MR. BIERI:</li> <li>Q This photograph you don't need to mark on, it's already into evidence. This is AX-10, page 22.</li> <li>So, disregard the bleeding through, but I just want to have you describe what you're seeing on this</li> </ul>
2 3 4 5 6 7 8 9	<ul> <li>date but just different angles.</li> <li>A Different angles.</li> <li>Q All right, thank you.</li> <li>MR. BIERI: Judge, I've marked this as AX-</li> <li>10, 20A. I would ask to move it into evidence.</li> <li>MR. McAFEE: No objection.</li> <li>MR. BIERI: Thank you.</li> <li>JUDGE BIRO: AX-10 at 20A is admitted into the record.</li> <li>(The document referred to was marked for identification as</li> </ul>	2 3 4 5 6 7 8 9	<ul> <li>(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.)</li> <li>BY MR. BIERI:</li> <li>Q This photograph you don't need to mark on, it's already into evidence. This is AX-10, page 22. So, disregard the bleeding through, but I just want to have you describe what you're seeing on this photograph, which is June 8th of 2016.</li> </ul>
2 3 4 5 6 7 8 9 10	date but just different angles. A Different angles. Q All right, thank you. MR. BIERI: Judge, I've marked this as AX- 10, 20A. I would ask to move it into evidence. MR. McAFEE: No objection. MR. BIERI: Thank you. JUDGE BIRO: AX-10 at 20A is admitted into the record. (The document referred to was marked for identification as Agency's Exhibit No. AX-10,	2 3 4 5 6 7 8 9 10 11 12	<ul> <li>(The document referred to was marked for identification as Agency's Exhibit No. AX-10, 21B and was received in the evidence.)</li> <li>BY MR. BIERI:</li> <li>Q This photograph you don't need to mark on, it's already into evidence. This is AX-10, page 22.</li> <li>So, disregard the bleeding through, but I just want to have you describe what you're seeing on this photograph, which is June 8th of 2016.</li> <li>A Yes. So, what's interesting about this</li> </ul>
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1	Page 355		Page 357
L 1	A Yes. At A it looks I probably marked	1	the top of my head, but they appear to be pointing to
2	over it but in that area, also at B.	2	the filled stream channel.
3	Q And this feature in the center, what is	3	Q Okay, and we can look in your report and
4	that?	4	figure that out.
5	A What I'm indicating then with the arrow and	5	Now, in this figure AX-31, page 17, we
6	C is what I interpret to be what I call like a check	6	actually see the new barn, the confinement barn, don't
7	dam. It's a little berm that was placed on the	7	we?
8	surface of the ground, and at times there is water	8	A Yes.
9	collecting behind it.	9	Q All right. That was not superimposed,
10	MR. BIERI: Okay. I'm going to move this	10	correct? That just came from a from a photo?
11	into evidence real quick. Judge, I've marked this as	11	A Yes, that's the photograph of the barn.
12	AX-10, 22A, and would like to move it into evidence.	12	Q Okay.
13	MR. McAFEE: No objection.	13	A I labeled it new barn.
14	JUDGE BIRO: AX-10 at 22A is admitted into	14	Q All right. All right, I'm handing you now,
15	the record.	15	placing on the Elmo what's been marked as AX-29, page
16	(The document referred to was	16	1. What's the date of this image, sir?
17	marked for identification as	17	A This is March 20, 2018.
18	Agency's Exhibit No. AX-10,	18	Q All right.
19	22A and was received in	19	A I believe that was the most recent
20	evidence.)	20	photograph I've obtained.
21	MR. BIERI: Thank you, Judge.	21	Q Okay. Of 2018, you said?
22	BY MR. BIERI:	22	A Yes.
23	Q Now, I'm showing you which is AX-31, this is	23	Q All right. And do you have any observations
24	page 18. This is a part of your expert report, and I	24	about this photograph? And we have a we have a
25	believe is from the same or similar image, is that	25	closeup on page 2, sorry, if you want to talk about
	Page 356		Page 358
1	right?	1	that as well, so.
2	A Yes, Exhibit 16.	2	
3			A Well, first on page 1, you can see the
	Q Okay. And can you describe for us what you	3	A Well, first on page 1, you can see the this is sort of zoomed out now, and you can see a
4	Q Okay. And can you describe for us what you were indicating with the red arrows, first of all?	1	
4 5		3	this is sort of zoomed out now, and you can see a
	were indicating with the red arrows, first of all?	3 4	this is sort of zoomed out now, and you can see a longer length of the tributary from the upper reaches
5	were indicating with the red arrows, first of all? A Right. So, the red arrows are pointing to	3 4 5	this is sort of zoomed out now, and you can see a longer length of the tributary from the upper reaches through the wooded area and near the upper left of the
5 6	were indicating with the red arrows, first of all? A Right. So, the red arrows are pointing to what I'm interpreting it to be a surface water	3 4 5 6	this is sort of zoomed out now, and you can see a longer length of the tributary from the upper reaches through the wooded area and near the upper left of the photograph, and then in the area where I'm indicating now is where the disturbance begins, and the tributary is not very evident in through that area because it's
5 6 7	were indicating with the red arrows, first of all? A Right. So, the red arrows are pointing to what I'm interpreting it to be a surface water drainage feature, you know. reappearing after	3 4 5 6 7	this is sort of zoomed out now, and you can see a longer length of the tributary from the upper reaches through the wooded area and near the upper left of the photograph, and then in the area where I'm indicating now is where the disturbance begins, and the tributary
5 6 7 8	<ul> <li>were indicating with the red arrows, first of all?</li> <li>A Right. So, the red arrows are pointing to what I'm interpreting it to be a surface water drainage feature, you know. reappearing after initially being buried on the surface, on the land.</li> <li>Q All right. And there's two black arrows.</li> <li>What are those?</li> </ul>	3 4 5 6 7 8	this is sort of zoomed out now, and you can see a longer length of the tributary from the upper reaches through the wooded area and near the upper left of the photograph, and then in the area where I'm indicating now is where the disturbance begins, and the tributary is not very evident in through that area because it's piped and not a lot of surface flow on top, and the old channel, the old tributary is obscured in this
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	Page 359		Page 361
1	erosion drainage feature forming next to it, you know,	1 Q (	Okay. I'm going to show you what's been
2	as if, you know, the tributary is sort of like trying		as Agency Exhibit 24. This is that well,
3	to reestablish itself again.	3 tell me,	what is that?
4	Q And what does the tributary trying to	4 A S	So, this is a this is a product of the
5	reestablish itself again tell you about the tributary?	5 LIDAR	post-product, post-processing product of LIDAR.
6	A Well, you know, my view is it's been there	6 This is v	what we call digital elevation model or a
7	since the 1930s and there were some impacts to it, but	7 bare- ear	th model where the LIDAR is the data is
8	it's you know, it has enough flow that it wants to	8 processe	d in such a way that it only depicts largely
9	keep on, you know, coming out of its pipe maybe and	9 the grou	nd surface, and then it's given sort of a
10	reestablishing a flow on the surface.	10 hill-shap	ed effect of like a shadowy sun-angle
11	MR. BIERI: Judge, I marked this exhibit as	11 effect an	d then shadow.
12	AX-29, 2A and would move to admit it into evidence.	12 S	o, it's a digital elevation model, it's a
13	MR. McAFEE: No objection.	13 renderin	g of what the ground surface looks like from
14	JUDGE BIRO: AX-29 at 2A is admitted into	14 the LIDA	AR data.
15	the record.	15 Q 4	Are there resolution limitations with
16	(The document referred to was	16 respect t	o LIDAR, or do you know?
17	marked for identification as	17 A '	
18	Agency's Exhibit No. AX-29,		Okay. And do you know what they are?
19	2A and was received in	19 A I	don't know what this is.
20	evidence.)	20 Q Q	Okay.
21	BY MR. BIERI:	21 A I	But, you know, it has to do with the height
22	Q All right, I want to show you, Mr. Stokely,		rcraft, the number of pulses, and then also
23	another exhibit. Let me ask you a couple questions		eness of vegetation.
24	before, though. What is LIDAR?		All right. And how did you view this image?
25	A LIDAR is it's a laser mapping technique	25 You're le	ooking at it on paper now, but did you look at
	Page 360		Page 362
			ruge 502
1	where the landscape is an aircraft flies in the air	1 it in a di	fferent format before?
1 2	_		_
	where the landscape is an aircraft flies in the air	2 A	fferent format before?
2	where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the	2 A 3 Informa	fferent format before? Yes. This was also served up in Geographic
2 3	where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the	2 A 3 Informa 4 it with n	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed
2 3 4	where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the sensor records the returning laser.	2 A 3 Informa 4 it with n 5 Q	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed ny software.
2 3 4 5	where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the sensor records the returning laser. Q All right. And did you view any LIDAR	2 A 3 Informa 4 it with n 5 Q 6 approxin 7 segment	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed ny software. Okay. And the portion that starts nate starting point of the impacted stream t, if you follow the channel down to about the
2 3 4 5 6 7 8	<ul> <li>where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the sensor records the returning laser.</li> <li>Q All right. And did you view any LIDAR imagery in this case?</li> <li>A Yes.</li> <li>Q All right. And how many images did you</li> </ul>	2 A 3 Informa 4 it with n 5 Q 6 approxin 7 segment 8 middle o	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed ny software. Okay. And the portion that starts mate starting point of the impacted stream , if you follow the channel down to about the of the photo, it appears different as you go
2 3 4 5 6 7 8 9	<ul> <li>where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the sensor records the returning laser.</li> <li>Q All right. And did you view any LIDAR imagery in this case?</li> <li>A Yes.</li> <li>Q All right. And how many images did you review?</li> </ul>	<ul> <li>2 A</li> <li>3 Informa</li> <li>4 it with n</li> <li>5 Q</li> <li>6 approxin</li> <li>7 segment</li> <li>8 middle o</li> <li>9 further t</li> </ul>	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed ny software. Okay. And the portion that starts nate starting point of the impacted stream t, if you follow the channel down to about the of the photo, it appears different as you go owards Deep Creek. Do you see that?
2 3 4 5 6 7 8 9 10	<ul> <li>where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the sensor records the returning laser.</li> <li>Q All right. And did you view any LIDAR imagery in this case?</li> <li>A Yes.</li> <li>Q All right. And how many images did you review?</li> <li>A There weren't there might have been two</li> </ul>	2 A 3 Informa 4 it with n 5 Q 6 approxin 7 segment 8 middle o 9 further t 10 A	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed ny software. Okay. And the portion that starts nate starting point of the impacted stream , if you follow the channel down to about the of the photo, it appears different as you go owards Deep Creek. Do you see that? Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>where the landscape is an aircraft flies in the air shooting a laser beam down onto the ground and the laser beam bounces back up to the aircraft and the sensor records the returning laser.</li> <li>Q All right. And did you view any LIDAR imagery in this case?</li> <li>A Yes.</li> <li>Q All right. And how many images did you review?</li> <li>A There weren't there might have been two or so but they were basically the same data; just depicted in different ways.</li> <li>Q Okay. And do you remember the date of that image?</li> <li>A I believe the LIDAR was flown in 2008.</li> <li>Q All right. And do you remember what month in 2008?</li> <li>A May, possibly.</li> <li>Q May. Do you remember how did you find out the month of the LIDAR image? Was that from Iowa State?</li> <li>A Yeah, there was a reference to it on the</li> </ul>	2A3Informa4it with m5Q6approxim7segment8middle of9further t10A11Q12impressi13A14aerial ph15Q16A17photograp18character19places, a20topograp21A22I'm goin23So, mea24and ther	fferent format before? Yes. This was also served up in Geographic tion System format from Iowa State, so I viewed ny software. Okay. And the portion that starts nate starting point of the impacted stream , if you follow the channel down to about the of the photo, it appears different as you go owards Deep Creek. Do you see that? Yes. Okay. And can you describe what your ions are of that area? Well, it's similar to what we saw in the notography. You can draw on this. At least particularly the LIDAR aerial aphy where I was able to point out the channel ristics, the meandering channel at various at A and B, for instance. This is a phic rendition of the channel. and then as you get down towards the area g to mark C, the channel becomes straighter.

	Page 363		Page 365
1	page 1, compare with what you're able to look at on	1	JUDGE BIRO: Yes.
2	your computer?	2	BY MR. BIERI:
3	A Well, with the computer you can zoom in, get	3	Q May 2008, correct?
4	a little bit closer look, and it's generally higher	4	A Yes.
5	resolution than a paper print.	5	Q Okay. Sorry, I said 2018.
6	Q And did you do that? Did you zoom in on the	6	MR. BIERI: And, Judge, I've remarked this
7	portion downstream from C on this map?	7	LIDAR image, I've written May 2008 and remarked it AX-
8	A Yes.	8	24A, and would ask that that be moved into evidence.
9	Q Okay. And do you believe that the portion	9	JUDGE BIRO: Okay.
10	of the LIDAR downstream from C towards Deep Creek	10	MR. McAFEE: No objection.
11	shows a lack of physical connection?	11	JUDGE BIRO: AX-24A is admitted into the
12	A No. In my mind, it's actually showing the	12	record.
13	connection as a nice, straight line.	13	(The document referred to was
14	Q Okay. And if the tributary were	14	marked for identification as
15	manipulated, the lower part of the tributary below C	15	Agency's Exhibit No. AX-24A
16	towards Deep Creek were manipulated just before this	16	and was received in
17	LIDAR image was taken, could that impact what the	17	evidence.)
18	LIDAR image would show?	18	MR. BIERI: Thank you.
19	A Yes. I mean, the LIDAR image is going to	19	BY MR. BIERI:
20	show the condition at the time of the that it was	20	Q Mr. Stokely, did you look at the report of
21	flown.	21	the Respondent's expert, Mr. Hentges?
22	Q Okay. And if the conditions were changed,	22	A Yes.
23	then you would expect the LIDAR image to at least	23	Q Okay. And did you see the LIDAR image that
24	reflect that.	24	he produced with his report?
25	A Yes.	25	A Yes, but you can bring it, show it to me
	Page 364		Page 366
1	Q Okay. Do you find this LIDAR image to be	1	again.
2	definitive one way or another as to whether this is a,	2	Q All right, I'm going to show it to you.
3	you know, relatively permanent water?	3	Showing you what's been marked as
4	A Well, it's what it is. The LIDAR image, to	4	Respondent's Exhibit 3.
5	me, is just another depiction of the same thing I've	5	A Yes.
6	been seeing in the aerial photography all this whole	6	Q Do you remember looking at this?
7	time. It's just a different way of imaging.	7	A Yes.
8	Q All right. And did you see evidence prior	8	Q All right. And how does the resolution of
9	to the date of this letter, photo May of 2018, that	9	this image compare to what you were able to view on
10	indicated to you that there was a defined channel?	10	your computer when you were analyzing this image?
11	A Yes.	11 12	A Well, this is you know, this is a xerox
12	Q Okay. And afterwards as well?		print so it's the resolution is less.
13	A Yes, from the series of photographs we've	13	Q Okay. So, do you agree with the conclusion
14 15	been through. Q Okay. I think you can return to the witness	14 15	or the statement that was put on there? It says, "Locations where channel is not apparent along grass
15	stand, actually.	16	drainage way."
17	A Okay.	17	A No, I don't agree. I agree that the channel
18	Q Thank you.	18	isn't as apparent as it is in other places, but I
19	JUDGE BIRO: Could you write the date on	19	don't agree that there's not a channel there.
20	this document, this photograph was May 2018?	20	Q Okay. Mr. Stokely, did you map the flow
21	MR. BIERI: The date is not on the document,	21	path from this unnamed tributary to Deep Creek and
22	but he looked it up.	22	then to other bodies of water?
23	JUDGE BIRO: Right, could you just write it	23	A Yes.
24	on there?	24	Q All right. And that's shown as Figure 10 in
25	MR. BIERI: Yes, I'll write it.	25	your report. We don't need to look at it.

	Page 367		Page 369
1	Did you also look at other similar	1	Q All right. You talked about the geomorphic
2	tributaries in your analysis of this case?	2	features and the impression in the landscape. Just
3	A I did.	3	briefly, can you summarize what you mean by that?
4	Q All right. Can you kind of tell me what you	4	A Right. Once again, that's the you know,
5	concluded there?	5	the curvilinear pattern of those of the meanders
6	A Well, I concluded that based on the length	6	deeply incised. The deeply incised nature of that
7	of the tributary in question, there's I don't know	7	became apparent once we looked at the LIDAR. It
8	the exact numbers, but there was five or six hundred	8	enhanced that part of it, so that's the geomorphic
9	similar tributaries in number, five or six hundred	9	characteristics incised into the landscape, you know,
10	similar tributaries like that one in the English River	10	relatively permanent incised geomorphic features.
11	watershed.	11	Q All right. And did anything else you
12	Q All right. And what significance does that	12	reviewed other than aerial images support your
13	have with respect to your opinions in this case?	13	conclusion that this is a seasonal tributary?
14	A That was just pointing out some factual	14	A Well, the U.S. Geological Survey mapping as
15	information. One of the you know, one of the	15	intermittent, the watershed size, the rainfall, all of
16	factors in jurisdiction is, you know, does this water	16	that together; the images, you know, consistently
17	body alone or in combination with others have the	17	seeing it in the images, all of that combined.
18	requisite nexus to a traditional amount of the water	18	MR. BIERI: All right. Thank you. I have
19	as I understand it. So, this was just factual	19	nothing further.
20	information for you.	20	JUDGE BIRO: Mr. McAfee, would you like to
21	Q Okay. I want to just try to, as best we	21	take a break or do you want to proceed on?
22	can, summarize your opinions and a brief summary of	22	MR. McAFEE: Well, Your Honor, I guess as I
23	the basis for same because you've testified to a lot	23	could kind of sense Britt was Mr. Bieri was nearing
24	of this, but according to your report well, tell me	24	the end of his direct, I guess we have several
25	what you concluded with respect to the permanency of	25	options. I think my cross-exam is going to be a
	Page 368		Page 370
			2000000
1	the geographic feature, that is, the tributary.	1	little longer than it has been of the previous
1 2	A Right. Well, based on all the aerial	1 2	little longer than it has been of the previous witnesses. I could either start now I guess I'm
	A Right. Well, based on all the aerial photographs I looked at from 1930 onwards, I see that		little longer than it has been of the previous witnesses. I could either start now I guess I'm laying out options for the Court, your discretion, or
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Page 371	Page 373
1 MR. McAFEE: That would be great. Thank 1 geographic features, relatively p	permanent waters. And
2 you. 2 then the other dealt with bodies	•
3 (Whereupon, a short recess was taken.) 3 and waters that have a significant	
4 JUDGE BIRO: Okay, Mr. McAfee. 4 traditional navigable water.	
5 MR. McAFEE: Thank you, Your Honor. 5 Q Okay. And I think the f	factors that you have
6 CROSS-EXAMINATION 6 mentioned during your testimon	-
7 BY MR. McAFEE: 7 they? I would call them factors	
8 Q Mr. Stokely, I briefly introduced myself 8 bank? Is that right?	5 57
9 during the break. I'm Eldon McAfee. I represent C&S 9 A I testified to the present	ce of a channel,
10 Enterprise, and I'd like to go through some questions 10 defined channel which I believe	
11 with you. 11 out there, I would see the bed at	-
12 Let's start with, I guess, a basic question 12 Q Are there any others? C	
13 and I don't know that Mr. Bieri asked you this, but 13 mark, is that part of your analys	
14 could you briefly give me your interpretation or 14 A An ordinary high-water	
15 definition of what is a jurisdictional water or water 15 make in the field, not from aeria	
16 of the U.S.? 16 based on the signature that I've	
17AWell, the interpretation now is post-17I believe there would be an ordi	
18 Rapanos, so it's a relatively permanent body of water 18 Q Okay.	
19or a wetland or water that has a significant nexus to19AOr would have been.	
20 traditional navigatable water, alone or in combination 20 Q Anything else?	
21have a significant nexus.21ANot in response to that a	question, I guess.
22 Q Okay, now you say now. As opposed to 22 Q Okay. I'll put your CV,	
23 Rapanos, did you 23 is your CV, I'm looking here,	
24   A   No, I meant that our currently we are   24   wanted to ask you not a lot of do	-
25 operating under the post-Rapanos rule. 25 that Mr. Bieri asked you about of	-
Page 372	Page 374
1 Q Post-Rapanos rule. 1 publications, and I'll try and turn	n to that page.
2 A Yes. 2 It's an ABA publication, is that	right?
3 Q Okay, I just want to make sure we're all on 3 A We talked about that ea	ırlier, yes.
4 the same page here. We're good with what 4 Q Okay. I'm putting up A	X-6, page 4. Can you
5 A Well, you know, post-Rapanos 5 see that?	
6 Q Yes, please explain that. 6 A Yes.	
7 A it came out in 2006, and the agencies 7 Q Okay. And is that public	ication that Mr.
8 interpreted the Rapanos ruling with some agency 8 Bieri asked you about, is that or	n there?
9 guidance in 2006. I think it was revised in 2008. 9 A Yes.	
10So, that's the rules we're operating under.10QAnd is that under Stoke	ly, P.M., 2013?
11 Q Okay. We're not talking about the rule that 11 A Yes.	
12 is the subject of litigation currently in many courts 12 Q Okay. And as I underst	-
13in the country, is that13it's well, the title is "Using Ae	
14AThat's my understanding, we are not talking14Geospacial Data in GIS to Supp	
15about that.15Environmental Statutes". Is that	it correct?
16 Q Right, we're not talking about that here 16 A Yes.	
17today.17QAnd did you author that	t solely by yourself
18AYes.18or did you have a co-author?	
19     Q     You're not. Okay. I'm sorry if I caused     19     A     Solely by myself.	
20 any confusion. Just wanted to make sure that we're 20 Q Okay. And the procedu	
21   all on the same page.   21   about today in going through you	-
22 Okay, could you tell me again what are the 22 you to your opinion, did you uti	lize that publication?
23   factors under that interpretation?   23   A   Well	~
24 A Well, as I understand it, there were two 24 Q And maybe I'm sorry.	
25 interpretations. One dealt with relatively permanent 25 A Not I didn't reference	T 1 1/

	Do mo. 275		Domo 277
	Page 375		Page 377
1	referenced that publication in a while actually. I	1	but you go into, for instance, third sentence well,
2	haven't looked at it in a while, so I didn't reference	2	second sentence, 17 of those dates you were precluded
3	it during this work.	3	from seeing the stream channel, and then the remaining
4	Q Okay. Maybe I should have asked that	4	18 years, I could easily make out the channel.
5	better. The procedures you used in your, formulating	5	And help me understand how that jibes with
6	your opinions in this case, are they the same	6	your statement on page 3 where you saw it
7	procedures you lay out in that article for enforcement	7	continuously. I just want to make sure I understand.
8	actions?	8	A Okay. The distinction I am making there is
9	A Well, it's been awhile since I've read that	9	that I was able to observe the tributary, what I
10	but they should be generally parallel to that.	10	interpret from all the evidence that I looked to be
11	Q Okay. All right, thank you.	11	the tributary on all the dates of aerial photography.
12	(Pause.)	12	But as I think I said earlier, in some of those dates,
13	Mr. Stokely, I'm putting on the screen	13	17 of those dates, the tree canopy prohibits the
14	Agency Exhibit 18. Are you familiar with that? And	14	observing the stream channel in any detail, but that
15	I'll put on the second page if you need to see that.	15	doesn't you know, it doesn't say that I couldn't
16	A I am not familiar.	16	see a tributary.
17	Q You have not reviewed it?	17	Q So, if you couldn't see the channel, you
18	A No, I don't recall having read it.	18	could still see the tributary.
19	Q Okay.	19	A Yes. The location of the tributary, yes.
20	A Yeah.	20	Q And how could you see it if you couldn't see
21	Q All right, thank you.	21	the stream channel?
22	I'd like now to put up your opinion, which	22	A The other signatures: the riparian
23	is Agency Exhibit 31, your report, and I'd like to ask	23	vegetation, the consistent riparian vegetation, the
24	you a few questions about that, and then we may go	24	curvilinear pattern of the vegetation, you know,
25	into the specific photos through the exhibits and as	25	coming down through the watershed.
	Page 376		Page 379
1	Page 376	1	Page 378
1	you've testified to this morning.	1	Q Okay. Let's go to I have a specific
2	you've testified to this morning. First of all, I'm going to put up page 3 of	2	Q Okay. Let's go to I have a specific question up here, and maybe you've covered this. Some
2 3	you've testified to this morning. First of all, I'm going to put up page 3 of your opinion, okay? I want to make sure I understand	2 3	Q Okay. Let's go to I have a specific question up here, and maybe you've covered this. Some of this I have in my notes and there may have been
2 3 4	you've testified to this morning. First of all, I'm going to put up page 3 of your opinion, okay? I want to make sure I understand this page 3 where you have under Roman Numeral III,	2 3 4	Q Okay. Let's go to I have a specific question up here, and maybe you've covered this. Some of this I have in my notes and there may have been testimony to that effect this morning, but I want to
2 3 4 5	you've testified to this morning. First of all, I'm going to put up page 3 of your opinion, okay? I want to make sure I understand this page 3 where you have under Roman Numeral III, letter A, background data analysis. I won't read it	2 3 4 5	Q Okay. Let's go to I have a specific question up here, and maybe you've covered this. Some of this I have in my notes and there may have been testimony to that effect this morning, but I want to make sure I cover it.
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25

dates," and you're welcome to explain some of this,

language here -- the incised nature there?

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## Page 381

	Page 579		Page 301
1	A Yes. In a general sense, my interpretation	1	higher hills. That's what this is indicating. The
2	is that this LIDAR image is depicting the stream	2	contour lines that are, you know, let's say near the
3	channel. As I mentioned earlier, it's not quite as	3	upper red arrow line, that contour line that's right
4	clear, the incised nature isn't quite as clear in the	4	next to that, so that's one elevation. I'm not sure
5	lower reach, but that's generally what I was referring	5	what it is. And then each consecutive ring of
6	to in that sentence. This is how the tributary is	6	contours moving north or moving west is a higher
7	being depicted on this LIDAR image, and it's deeply	7	elevation. So, it's outlining these like, you know,
8	incised in the upper portion.	8	small ridges with a valley in between.
9	Q Okay. Also, you refer in that first	9	The contour lines also point up the valley.
10	sentence to the topographic expression of the stream.	10	The V of the contours point up the valley, and you can
11	What do you mean by that?	11	see that there, and that's generally what I refer to
12	A That's sort of a general term that I use.	12	when I say the topographic expression of a stream.
13	You know, streams cut themselves into the landscape	13	Q Okay. So, as I understand it, the closer
14	and they create, you know, topographic expression.	14	the lines are together, the steeper the hill.
15	It's not flat, it's down into the landscape. And if	15	A Correct.
16	you, you know, some of the map contour lines, you	16	Q All right. So, you have two red arrows on
17	would see the contour lines follow the it would	17	this exhibit, page 13 of AX-31. Do you see those?
	outline the stream course. And so that's what I mean	18	A Yes.
18		-	
19	by topographic expression.	19	Q And maybe you explain them in your report,
20	Q Okay. Since we're talking about topographic	20	and I don't have that section right in front of me,
21	expression, and if I can I believe in your report,	21	but could you tell us what those red arrows are?
22	you include a topographic map. This is AX-31, page	22	A That's pointing to the U.S. Geological
23	13. Is that what that is?	23	Survey's annotation of an intermittent stream the
24	A Yeah, that's in my report. That's a, you	24	dash, dot, dot, dash.
25	know, zoomed-in image of that part of the topo map,	25	Q Okay. Also there, about in the area where
	Page 380		Page 382
1	Page 380 the USGS topo map.	1	Page 382 those red arrows are the lines, would you call them
1 2		1 2	-
	the USGS topo map.		those red arrows are the lines, would you call them
2	the USGS topo map. Q Okay. And there are lines on there that	2	those red arrows are the lines, would you call them topographic lines? Is that what you call those?
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	Page 383		Page 385
1	A Yes, the 2017 email, correct.	1	tributary flowing. Can you tell from an aerial or
2	Q Yes. And why don't I make sure that we're	2	those photos if there is actual water movement or can
3	looking at the okay, I put up AX-13, page 1 of 2,	3	you just tell, as you've testified, the presence?
4	and that email is dated December 18th of 2017,	4	I just know you used the term "flowing"
5	correct?	5	several times, and I want to make sure I understood
6	A Yes.	6	what you meant.
7	Q And prior to that, were you aware of this	7	A Yes, I did not mean to imply that I could
8	case at all?	8	see water flowing, but I was referring to the
9	A Prior to the 14th, no, that's when I	9	direction of flow from the upper, you know, higher
10	received the email from her.	10	elevations to the lower.
11	Q Correct.	11	Q Okay. Well, let's I may have some other
12	A Okay. Prior to the 14th, no. I don't have	12	general questions but I'll catch those as we go
13	any recollection.	13	through each one. I'd like now to put up Agency
14	Q Okay. And as she indicates, they were in	14	Exhibit 10, and I want to go through those photos with
15	pre-filing status, I'll call it. Do you ever get	15	you, okay?
16	involved in these cases prior to this or is this the	16	(Pause.)
17	normal time you would get involved in cases you've	17	Okay, I'm sorry. I just need to get
18	worked on for the EPA?	18	organized here a little bit before we start through
19	A I'm not sure what the pre-filing the pre-	19	them. I want to put up Agency Exhibit 10, page 1,
20	filing, you mean pre-complaint filing or	20	okay?
21	Q I'm just referring to her	21	You testified you didn't put those labels on
22	A Yeah.	22	there on any of these photos. I believe, and I
23	Q Down at the bottom where she her email to	23	don't maybe over lunch, I'll find and have the
24	you on December 14th says, "Pete, we are in pre-filing	24	exhibits that you marked on, and if I have any
25	with an individual out of Iowa County."	25	questions about those. But here on Agency Exhibit 10,
	Page 384		D
	Tage 304		Page 386
1	Do you know what that means?	1	page 1, I believe you indicated where you you
1 2		1 2	
	Do you know what that means?		page 1, I believe you indicated where you you
2	Do you know what that means? A No, I don't really know exactly what that	2	page 1, I believe you indicated where you you thought where the channel was down here in the lower portion that I'm pointing to. I believe you marked it somewhere to the
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2 3 4	Do you know what that means? A No, I don't really know exactly what that means, but I do get involved in cases across the spectrum from early on to sometimes, you know, post- complaint filing, so. Q And I guess I'll submit to you that the	2 3 4	page 1, I believe you indicated where you you thought where the channel was down here in the lower portion that I'm pointing to. I believe you marked it somewhere to the left of this, what appears to be a white line. Do you see what I'm pointing to?
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1	_	1	_
1	Q Explain. Be more common for you to go to	1	How prevalent when you started were the
2	the site?	2	tools that you had available to you on the internet or
3	A Yes.	3	electronically? Give me a sense of when you how
4 5	Q And do you know why you didn't go to the site here?	5	much different is it today with what you have available
6		6	versus when you started.
0 7	A There were there were issues of, you know, timing and the ability to get out here before, I	7	A Well, yes. I mean, there was no internet.
8		8	There were very few computers, and, yes, it's dramatically different today.
° 9	guess, court filings. But then, you know, in the end I wrote a report that I felt like it could stand on its	9	Q When did that change? I know it's evolved
10	own without me being out there.	10	over time, just like my use of computers has, but was
11	Q Do you believe it would have helped you in	11	there a marked change in those 30 years where you had a
12	your opinions had you been able to go to the site?	12	lot more resources available to you?
13	A It would have it would have given me, you	13	A Well, I mean, for my own experience, I
14	know, the eyes on the ground to see some of these	14	mentioned earlier, somewhere, I guess, around the year
15	features for myself, although a lot of them are part	15	2000, let's just say 2001, I obtained the first copy of
16	of the tributary has been eliminated. So, I wouldn't	16	my Geographic Information System software. And that
17	have been able to really see the historical features as	17	that was a change. That was a helpful change
18	much. But I'm not going to tell you it's not helpful	18	particularly when it comes to viewing, annotating and
19	to go out in the field.	19	making maps.
20	Q Sure.	20	The way I used to do it would be to take a
20	A Yeah.	21	piece of acetate and overlay it on an aerial photograph
22	Q I understand, and I understand it wasn't	22	and then Sharpies like that and annotate features and
23	possible for you to be there before the work was done.	23	label the photograph. And with the advent of ARC-GIS, I
24	I'm just trying to get a sense of how you usually	24	was able to now create maps much easier, much faster.
25	conduct your investigations.	25	So, that was a marked change.
20	conduct your investigations.		so, and was a marked enange.
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	Page 388		Page 390
1	-	1	_
1 2	And obviously, I may be stating the obvious	1	And then I guess more gradually after that
	-	1	_
2	And obviously, I may be stating the obvious here, but if you could have been there before any of	2	And then I guess more gradually after that until, you know, really now, it's just the vast
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1	Page 391		Page 393
-	Q I'm not going to hold you exactly	1	rephrase that.
2	A Right.	2	You know, this case is about whether this
3	Q to the year. I guess what I'm trying to	3	unnamed tributary, as we're calling it,, is a
4	get, make sure I understand anyway, is that you when	4	jurisdictional water, right? That's what this case is
5	we don't see near as much information or photos from	5	about and whether my client violated Section 404,
6	earlier years, it's because they are not available, is	6	correct?
7	that correct?	7	A Yes.
8	A Yes.	8	Q Okay. If you had been able to be there and
9	Q And now do we have an aerial photo available	9	at one point in time had not seen a channel or any
10	of this farm just about every year?	10	water but your photos showed you something different,
11	A Yes.	11	would that one time being there, seeing that have
12	Q Okay. And did you review let me ask it	12	influenced your opinion?
13	this way. Are there any that you reviewed from any of	13	A I'm sorry. I'm not exactly sure what you're
14	these years that you decided not to use in your report	14	asking.
15	or in any discussion today that you can think of?	15	Q What I'm asking is if you had been able to
16	A No. I looked at every one of them, but	16	be there this is a hypothetical, I understand it,
17	since there were 35 or thereabouts I did not create 35	17	but you're an expert witness and expert witnesses deal
18	figures. I didn't reproduce every single one of them	18	with hypotheticals.
19	in my report, but I looked at every single one of them	19	If you had been able to be there and at one
20	in forming my opinions.	20	point in time you saw you observed the conditions
20	Q Do you recall in any of those that you	21	but the conditions were different than what you saw in
22	observed and didn't use where there was you couldn't	22	-
22	see a channel or you couldn't see water?	23	your photos, historical photos that don't cover every year, would that have influenced your opinion?
23	-	23	
	A Well, I've already mentioned, couldn't see	1	A If you're asking me if I had seen something in the field that I couldn't see on the aerial
25	water and couldn't see a channel on a lot of them, but	25	in the field that I couldn't see on the aerial
	Page 392		Page 394
1	I used I'm going to discuss that in my report.		
1	rused fin going to discuss that in my report.	1	photography, would that influence my opinion?
2	Q Okay. Maybe what I'm trying to ask is, what	1 2	photography, would that influence my opinion? Q Yes.
		1	
2	Q Okay. Maybe what I'm trying to ask is, what	2	Q Yes.
2 3	Q Okay. Maybe what I'm trying to ask is, what is your litmus test, so to speak, for what photo to use	2 3	<ul><li>Q Yes.</li><li>A Well, I would certainly factor that in, yes.</li></ul>
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	Page 395		Page 397
1	Q Okay.	1	in this case, this tributary fits right into that
2	A It had been destroyed, but you could see the	2	pattern, exhibits the same sort of branch-like pattern.
3	valley.	3	Q Does the branching indicate that the water
4	Q I'm asking the other way, where if you saw	4	may not be channeled?
5	something when you went out there, something was not	5	A Does the branching indicate the water may
6	there that you thought you saw in the aerial	6	not be channeled?
7	photography.	7	Q Correct.
8	A If that was ground truth and I was and I	8	A Yes, it can indicate that it's not
9	was convinced that what I saw on the photography was in	9	channelized.
10	error, I would have changed my view at that point,	10	Q And do you see that in this photo?
11	yeah.	11	A I see both. You know, non-channelized and
12	Q Yes, and I'm asking has that ever happened	12	then perhaps an historically channelized segment.
13	with you?	13	Q And I guess I'm referring specifically where
14	A Oh, I don't know. You know, we adjust	14	you noted the branching pattern by the creek.
15	boundaries for ground truth, wetland boundaries. Yeah,	15	A Oh, what I was referring to there is
16	I'm sure there has been times when I've overestimated	16	basically how that how the unnamed tributary sort of
17	wetland boundaries, or got in the field and say, oops,	17	branches off a deep creek like a branch, and then
18	that little piece didn't meet the criteria so I	18	there's another tributary to the right of that image
19	truncated. Yes, I mean, that's that's part of	19	that's straighter but it sort of branches off, and if
20	business, part of doing the ground truth in the report.	20	you zoomed out you would see that repeated, you know,
21	Q So, is it fair to say ground truthing, as	21	in the overall watershed.
22	you've called it, serves some purpose and some value in	22	Q Okay. So, by branching, you don't mean
23	cases like this?	23	widening out, is that
24	A Yes.	24	A Yes, not widening out but like a branch-like
25	Q Okay. Based on what you've reviewed and	25	pattern, like dendritic, like trees, twigs
	Page 396		Page 398
1	your testimony, would you expect there to be times, not	1	Q Right.
2	necessarily shown in the photos, but would you expect	2	A that, you know, all the twigs lead to a
3	there to be times when there would be no water in this	3	larger stem and the larger stem leads to a trunk.
4	channel that you say has been continuously present?	4	That's dendritic and that's a typical drainage pattern.
5	A Yes.	5	Q Okay. By branching, are you indicating like
6	Q Okay. I'm now going to show you AX-10, I	6	one tributary is a branch and another tributary is a
7	think it's on the back side here, page 2, and I'm	7	branch?
8	looking at my notes from your testimony here. I think	8	A Yeah.
9	you referred to a branching pattern at the creek.	9	Q Versus what I was thinking you may have said
10	A At some point in my testimony I did, yes.	10	was it indicates where you noted there was a branching
11	Q Yes, and according to my notes, it was on	11	pattern that I'm pointing to there, that this one
12	this one, but you may have said it several times. What	12	unnamed tributary we have been discussing today has
13	does that is that branching pattern an indication of	13	branched out and may not be centralized flow.
14	anything regarding the, as we're calling it, the	14	A No. I meant it was a branch on the Deep
15	unnamed tributary regarding whether it exists or not?	15	Creek
16	A Well, I mean, it does in a sense. If you	16	Q Okay.
17	zoom out and look at the landscape and look at the	17	A trunk.
18	dendritic and branching-like signature of the	18	Q All right, that's why I ask these questions.
19	tributaries in the area, and you can map them in a	19	Okay. Here is, I guess, another general question.
20	larger area and sort of see their pattern, their	20	You've testified as to AX-10 and then also AX-26, these
21	branching pattern, that's very common. Dendritic	21	aerial photos that you've seen the channel, I think, I
22	drainage is a very, very common drainage pattern.	22	think you've said repeatedly or continuously, sometimes
23	And in this case, you can see it at one	23	water, sometimes not based on the photo, et cetera, but
24	scale, you know, zoomed way out indicates sort of the	24	can you tell from these photos if these this channel
25	regional drainage pattern, and then more specifically	25	has been altered by man, manmade activities? Can you

	Page 399		Page 401
1	tell that?	1	A Well, I can't really make out the channel
2	A Yes, you can frequently tell that, yes.	2	that well because of the vegetation. But, no, so I
3	Q Have you seen that here?	3	didn't see water in the old channel.
4	A This channel, the lower section is fairly	4	Q In the straight line I will call it where we
5	straight, which is kind of typical that it may have	5	see the dark area, would that appear to you to be
6	been straightened at some point.	6	manmade?
7	Q Okay. And do you have an opinion as to how	7	A Which you pointed to earlier that? What
8	that affects a determination of jurisdictional waters	8	I testified to is, what I think has happened right
9	if that manmade activity occurred prior to the Clean	9	before this image was taken was that the flow coming
10	Water Act going into effect?	10	down the watershed for some reason didn't go underneath
11	A You know, I guess my opinion is more based	11	the culvert and down the channel. Maybe it was
12	as, you know, photo interpreter and working on sites	12	blocked, and it sort of jumped over, jumped over the
13	enforcement cases. It's hard to find a landscape that	13	road and then flowed parallel to the old channel.
14	there hasn't been some manmade straightening of	14	That's my interpretation of what I'm seeing from this
15	tributaries. So, it doesn't have an influence on the	15	one single photo.
16	jurisdiction. It's just a factor in the landscape.	16	Q Okay. And, again, do you have an opinion as
17	Q Okay, and that's the opinion you're	17	to whether you've just testified, I believe, that
18	testifying to, is that correct?	18	you thought you had seen manmade activity in these
19	A The jurisdictional aspect doesn't have so	19	photos, right?
20	much to do with whether it was straightened or not,	20	A I believe I testified that the straightened,
21	it's just now we're looking at relatively permanent	21	the tributary being straightened is consistent with
22	flow and similar situated wetlands and significant	22	having been straightened by somebody
23	nexus. Those are the jurisdictional factors.	23	Q Okay. And is that what
24	Q Okay, thank you.	24	A yes.
25	Okay, we're going to AX-10, page 3. I	25	Q I'm sorry if I interrupted. Is that what
	Page 400		Page 402
1			
1	believe this is where you might have referred to	1	you see here in that straight line, is manmade
2	believe this is where you might have referred to flowing, Several times you've used that term, but	1 2	you see here in that straight line, is manmade activity?
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	Page 403		Page 405
1	(Whereupon, at 12:20 p.m., the hearing in	1	opinion is it possible that that dark color is
2	the above-entitled matter recessed, to reconvene at	2	something else other than water?
3	1:20 p.m. this same day, Wednesday, October 3, 2018.)	3	A Well, I mean, I've looked at it, I've looked
4	//	4	at the way the water seems to cross the road, and that
5	//	5	was that was just my finding. It looks to me like
6	//	6	it's water.
7	// //	7	Q And the reason I ask, and I realize I
8	//	8	haven't been trained in aerial imaging analysis, but is
9	//	9	it similar to some of the color of the vegetation in
10	//	10	that photo also? It's in a straight line. Again, I
11	//	11	just thought while we were on it, I'd ask if there was
12	//	12	any doubt in your mind as to what that might be.
13	//	13	A Well, also it's hard to reexamine the issue
14	//	14	at all from this particular picture. But, no, I mean,
15	//	15	I looked at it for awhile and I went back and forth,
16	//	16	and I you know, I believe that that's a reasonable
17	//	17	explanation for that dark signature.
18	//	18	Q Okay. Then let's move to AX-10. Just a
19	//	19	minute. I believe when you testified this morning, you
20	//	20	went through AX-10, 5, with Mr. Bieri, but then I don't
20	//	21	believe we he looked at AX-10, 6, with you, which is
22	//	22	on the back side of that. Could you take a look at
23	//	23	that for me, since you didn't look at it this morning?
24	//	24	A Okay.
25	//	25	Q All right. Now, I'm sorry, I'm going to
	Page 404		Page 406
			2
1	AFTERNOON SESSION	1	flip it back. That has a date of April 4, 2009.
1 2	AFTERNOON SESSION (1:30 p.m.)	1 2	_
		1	flip it back. That has a date of April 4, 2009.
2	(1:30 p.m.)	2	flip it back. That has a date of April 4, 2009. That's the same date as AX-10, page 5. Now that's a
2 3	(1:30 p.m.) JUDGE BIRO: Mr. McAfee.	2 3	flip it back. That has a date of April 4, 2009. That's the same date as AX-10, page 5. Now that's a different angle, is that correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(1:30 p.m.) JUDGE BIRO: Mr. McAfee. MR. McAFEE: Thank you. JUDGE BIRO: Did you have enough time to prepare? MR. McAFEE: I did. Thank you, Your Honor. JUDGE BIRO: Okay, then let's proceed again. Whereupon, PETER STOKELY having been previously duly sworn, was recalled as a witness herein and was examined and testified further as follows: CROSS-EXAMINATION (Resumes) BY MR. McAFEE: Q Mr. Stokely, I want to, of course, move forward with our review of exhibits in AX-10, but I wanted to put back up for you I think we had discussed AX-10, page 5, and we were looking at this, what I'll call a straight line that's dark next to what I believe you testified was the old channel. Is that correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	flip it back. That has a date of April 4, 2009. That's the same date as AX-10, page 5. Now that's a different angle, is that correct? A Yes. Q Well, let's here I am interrupting myself. Let's talk about those angles a minute. This is what's called an oblique aerial, correct? A Yes. Q And it's done by Pictometry? A Yes. Q Is that the name of a tell me a little you testified this morning, I don't mean to repeat it, but explain that a little more to me. A Well, that's the name of their that's the name of the firm, and they fly in the United States various places, and they fly with a plane that apparently has five cameras in it. They're looking out the four cardinal directions and then straight down as well, and that's how they get these angles. Q Okay. And using Pictometry, is it do they give us the time of day here when they take these photos because of the due to the effect of the sun

	Page 407		Page 409
1	your when you download the photos. They likely have	1	do you see those lines I'm pointing to?
2	that metadata somewhere as a record.	2	A Yes.
3	Q Okay. And would it be fair to say that the	3	Q And for the record, I don't think we need to
4	time of day would have an effect on shadows if the sun	4	mark them. I think they're pretty apparent. They are
5	is out?	5	lines throughout the fields both on the as you look
6	A Yes.	6	at the photo on the left-hand side of the unnamed
7	Q Okay. Also, is there some type of scale to	7	tributary and on the right-hand side, some of them are
8	these so we know, you know, when you take some at an	8	going straight north and south, some of them are at an
9	angle, does it change the trajectory, the scale, et	9	angle it looks like with the slope of the field.
10	cetera?	10	Do you know what those lines are?
11	A Yes, the scale varies across the image.	11	A Well, they look like they're you know,
12	Q Okay. So, these aren't really well, are	12	they're made by passing machinery, and I wasn't sure if
13	these to scale where you can take a ruler and say it's	13	it was like a plow or maybe it was spreading manure,
14	this far away or	14	but I never really formed a final opinion about what
15	A Right. So, these prints, you wouldn't be	15	those are, but it does look like to they're made by
16	able to, and I can't do it either viewing it in my GIS,	16	passing machinery.
17	but their website where they deliver these photographs,	17	Q Okay. And I'm just asking you if you know,
18	and they also allow you to view them, they have tools	18	and you see there is a line also kind of goes up on
19	that allow you to make those measurements.	19	each side of the ditch of the tributary.
20	Q And have you done that in this case?	20	A Yes.
21	A No.	21	Q Do you see that?
22	Q Okay. Now, to AX-10, page 6, that I have on	22	A Um-hmm.
23	the screen, do you see in the area, the lower portion	23	Q Okay. All right, thank you.
24	of the unnamed tributary as we've been calling it, do	24	Moving on to AX-10, 8, I think you testified
25	you see water in that in this exhibit?	25	here in response to a question from Mr. Bieri that I
	Page 408		Page 410
1	A Well, I don't see it on this print.	1	don't know if it was specific to this photo, but that
2	Q And that's what I'm asking.	2	if you you can't tell an ordinary high-water mark
3	A Yeah.	3	from these photos, correct?
4	Q I understand.	4	A Correct.
5	A Nothing that I can be sure about.	5	Q Okay. All right, thank you.
6	Q Okay, thank you. Okay, then moving on to	6	At this point, I want to go to AX-26, page
7	No. 7. Okay. In this photo, I guess the only question	7	2, I believe is a closeup, and I believe, according to
8	I have well, again, I think you testified this	8	my notes anyway, this is a closeup of AX-10, 8, and I
9	morning according to my notes that you did see water in	9	believe you testified that you can see water over the
10 11	this aerial, and I won't make you go back through that because I think you marked just to refresh your	10 11	road crossing. Is that correct? A Yes.
12	memory here, I'm showing you AX-10, 7B. Do you see	12	Q Okay. And again, that's based on the
13	that?	13	darkness, right?
14	A Yes.	14	A Yes, the dark-tone signature.
15	Q And you marked it A, B, and C, and according	15	Q The question I have also and I think I'll
16	to my notes, you noted C is where you saw water.	16	ask this we'll see this in several of these photos,
17	A Yes.	17	if that is in fact water, as you've testified, does it
18	Q Okay. And B is where you saw the channel to	18	get broader and that would be the channel? Have you
19	what would be east, the old channel I guess is what I'd	19	seen any of these photos where the channel showing the
20	call it.	20	darkness gets wider as it gets closer to Deep Creek?
21	A Yes, that seems to be my recollection of	21	Now, I realize I I'll ask you the broad
22	what I said about B.	22	question at this point. Have you seen that in any of
23	Q Yes. Okay, on either one of these, I'll put	23	these photos that you can remember?
24	the Exhibit AX-10, page 7, back up. Do you see those	24	A Now, I sort of recall that the channel is
25	lines in the fields and I'll point to some of them,	25	narrow the way it appears on this one
	-	1	-

	Page 411		Page 413
1	Q Okay.	1	crossing like we had seen in a previous photo.
2	A when it could be seen.	2	A I said that earlier today?
3	Q Pardon me?	3	Q I believe at least my notes indicate
4	A When it could be seen.	4	that.
5	Q Right, I understand. Would that be typical	5	A Well, I mean, I would agree that looking at
6	where you are draining an area like, I think you said	6	this now, I don't see water going over that.
7	it's the watershed is about 100 acres?	7	Q Okay. And I need to ask. Could that also
8	A Yes, the watershed is about 100 acres.	8	be because there is no water, you don't see anything
9	Q And you've indicated there is the channel	9	over the road crossing?
10	upland and it comes down to Deep Creek. Would that be	10	A Well, again, I don't remember what I said
11	typical for it to not get any wider? And I think in	11	specifically about this photo, and whether that
12	this case, we can see it got narrower as more area is	12	signature is shadow versus water. So, I mean, if you
13	drained.	13	showed my report, maybe that would clarify it, but I
14	A Well, I mean, so the 100 acres is from the	14	interpret that to be the culvert is functioning there
15	point where it enters Deep Creek. I mean, I guess to	15	in that particular image.
16	answer it the other way, it's not it doesn't seem	16	Q Pardon me? I'm sorry.
17	unusual to me that this channel would be these	17	A I said I interpret that to be that the
18	dimensions and all throughout. I mean, I wouldn't	18	culvert is functioning in that particular on that
19	necessarily expect it to widen to 10 feet wide or	19	particular date in that particular image.
20	something like that.	20	Q Okay, thank you.
21	Q Okay. All right, thank you.	21	All right, now I want to move on to AX-10,
22	I'd like to move now back to AX-10, and	22	page 10, which is a photo you weren't shown this
23	we'll go to AX-10, page 9, and again this photo has a	23	morning, and I wanted you to take a look at that.
24	date of December 18, 2010. It is light-colored on the,	24	A Okay.
25	at least the farm ground portion, does that appear to	25	Q All right. First of all, do you see a
	Page 412		Page 414
		1	rage ii i
1	_	1	_
1 2	be snow-covered or do you know?	1	channel in that photo?
	_	1	_
2	be snow-covered or do you know? A That's what I thought it was, snow cover.	2	channel in that photo? A Well, I see and, you know, again this is
2 3	be snow-covered or do you know? A That's what I thought it was, snow cover. Q Okay. And there are the unnamed trib	2 3	channel in that photo? A Well, I see and, you know, again this is like not the greatest quality image, but I can see
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>be snow-covered or do you know?</li> <li>A That's what I thought it was, snow cover.</li> <li>Q Okay. And there are the unnamed trib or I guess I don't need to keep saying "unnamed". The tributary that we've been discussing, it is not white, is it?</li> <li>A Well, some of the banks are, but there is, you know, sort of the dark-tone curvilinear feature is still visible.</li> <li>Q Okay. If there were a channel there, would you expect there if there is snow on the farm ground, would you expect there to be snow in the channel?</li> <li>A Well, I mean, I guess not necessarily if it wasn't particularly cold and, you know, the water was still flowing.</li> <li>Q Okay.</li> <li>A You know, snow wouldn't accumulate, or if it was wet and above freezing, the snow wouldn't accumulate.</li> <li>Q Do you see water in this photo?</li> <li>A I don't recall what I said about this photo.</li> <li>Q Okay. I think you also I'm trying to</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>channel in that photo?</li> <li>A Well, I see and, you know, again this is like not the greatest quality image, but I can see the meandering portion in the upper left a little bit just like we've seen fairly often, and I can maybe see pieces of channel as we go down, and even, I don't know, below that road crossing there seems to be a fairly linear dark-tone feature which, you know, could be the channel.</li> <li>Q Okay. Do you see let's see, this photo is January 4, 2011. You see white areas that could be snow?</li> <li>A Yes.</li> <li>Q And do you see any of those white areas in what you have described as the channel?</li> <li>A No.</li> <li>Q All right. Then AX-10, page 11, you were not shown this morning, and I'd like to have you take a look at that. This has a date of July 19, 2011.</li> <li>First of all, do you see this kind of white line I'm pointing to that goes for purposes of the record, I would describe it anyway as a it looks like a white line from going straight south from what's</li> </ul>

	Page 415		Page 417
1	crossing, and then goes off to what would be the	1	crossing, what do you see?
2	southwest? Do you see that?	2	A Well, I see the straightened channel. I see
3	A I do.	3	a very dark-tone linear feature, sort of corresponds
4	Q Do you have an opinion as to what that would	4	with the culvert but and then I see, you know, the
5	be?	5	riparian vegetation. And this, of course, is a leaf-
6	A I believe it's a road.	6	on, you know, mid-growing season aerial photo.
7	Q Okay. Now, looking at the portion of the	7	Q Do you see water in this photo?
8	tributary, as we're calling it, to the between that	8	A I don't believe I claimed there was water in
9	area that we just described and Deep Creek in this	9	that photo from my analysis and in my report.
10	photo, again which you did not see this morning, do you	10	Q All right, thank you. I don't believe I
11	see a channel?	11	have any questions for you on AX-10, page 14.
12	A You mean downstream from the road crossing?	12	Okay, AX-10, page 15, I believe you
13	Q Yes, please.	13	testified this morning that, of course, this is March
14	A Well, what I see on this photo here, this	14	9, 2015, and we're coming up on a series of photos
15	copy, the xerox copy, is again a dark-tone linear	15	March 20th that we're going to spend some time with,
16	feature extending from the road crossing. I would	16	but here this is previous to that. I believe according
17	interpret that to be the channel, the channel we've	17	to my notes you did see water in this channel. Is that
18	seen before.	18	correct?
19	Q And do you see any water in that area?	19	A I would want to look back at my report to
20	A I don't recall what I said about this one	20	see what I said.
21	but I'm pretty sure I did not state that I saw water in	21	Q Okay, I understand. I believe you testified
22	this image.	22	this morning, where I'm pointing with my pen is where
23	Q Yes. Well, again, according to my notes,	23	some clearing has occurred from trees that were
24	you were not shown this this morning, so.	24	previously there.
25	A Well, I looked at it.	25	A Yes.
	Page 416		Page 418
		1	10090 110
1	Q Oh.	1	Q Well, as you look at this photo now, do you
1 2	<ul><li>Q Oh.</li><li>A I mean, it's in part of my report.</li></ul>	1 2	_
			Q Well, as you look at this photo now, do you
2	A I mean, it's in part of my report.	2	Q Well, as you look at this photo now, do you see water?
2 3	<ul><li>A I mean, it's in part of my report.</li><li>Q I understand. Thank you. Okay.</li></ul>	2 3	<ul><li>Q Well, as you look at this photo now, do you see water?</li><li>A I see dark-tone linear and curvilinear</li></ul>
2 3 4	<ul> <li>A I mean, it's in part of my report.</li> <li>Q I understand. Thank you. Okay.</li> <li>Okay, I don't think I need here's No. 12</li> </ul>	2 3 4	<ul><li>Q Well, as you look at this photo now, do you see water?</li><li>A I see dark-tone linear and curvilinear feature, yes, which could be water, but I don't</li></ul>
2 3 4 5	<ul> <li>A I mean, it's in part of my report.</li> <li>Q I understand. Thank you. Okay.</li> <li>Okay, I don't think I need here's No. 12</li> <li>of AX-10. I don't think I have any further questions</li> </ul>	2 3 4 5	Q Well, as you look at this photo now, do you see water? A I see dark-tone linear and curvilinear feature, yes, which could be water, but I don't remember, you know. I'm looking at this print and I
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	Dama (1)		
	Page 419		Page 421
1	A Well, I'm not sure that I testified that it	1	good copy, it's a copy of an image, and my opinions
2	was groundwater from above. But, no, I believe that	2	were formed after more thorough analysis. They were
3	it's a combination of both. It's water from the	3	written down, and I don't recall if I was, you know,
4	watershed both above and perhaps right next to that	4	thinking what I was seeing was water or shadow. In
5	tributary.	5	order for me to make a statement about water, I needed
6	Q Okay. All right, that's No. 15, and then	6	to rule out shadow, and I don't remember what I did
7	let's go to 16, which is a photo you weren't shown this	7	with this one.
8	morning, and this is March 20. Now we're into the	8	Q Okay. Let's go to the next one, AX-10, page
9	March 20, 2015, photos which are coming up. There's	9	19, which is the same date, a different angle. Is that
10	about four different angles to this one. This is	10	correct?
11	Pictometry, right?	11	A It's the same date, and I yeah, it
12	A Yes.	12	probably is a different angle, slightly different
13	Q All right. Kind of have to get our bearings	13	angle.
14	here because it's coming this is taken looking	14	Q I want to go and again, I don't mean to
15	well, would you tell me?	15	hide your report from you, I'll be glad to pull that
16	A It's looking eastward.	16	up, because I believe in your report all right,
17	Q Okay. And the closest part of the photo is	17	where did I set your report? Okay, here it is.
18	where is the upper portion of the tributary, right?	18	In your report on page it's AX-31, page
19	A Yes.	19	15 is Figure 5. Do you recognize that?
20	Q Tell me what you see here.	20	A Yes.
21	A In the upper portion?	21	Q Okay. And there's no date on this figure.
22	Q Anywhere, please.	22	I think it is in your report, but that does appear to
23	A Yeah, you can see I pointed this out	23	be the same photo, correct?
24	earlier on the same year but, you know, a different	24	A The same one that you just had on there,
25	angle. You can see the meandering channel in the upper	25	yes.
	Page 420		Page 422
1		1	
1 2	portion. You could also see the evidence of vegetation	1	Q Yes, AX-10, page 19. I guess my question is
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	Page 423		Page 425
1	it's just the angle it was captured was perfect for	1	various places out in the field?
2	reflecting the sun, and it was the only image in that	2	A I'm not 100-percent-sure about that. It
3	series that was that way. So.	3	kind of has the signature of maybe soil eroding down
4	Q All right. Well, I guess I shouldn't feel	4	that slope or washing down that slope, but I didn't
5	bad I was puzzled by that, should I?	5	spend a lot of time trying to answer that question.
6	A Okay. No.	6	Q Okay. Okay, I think I'm done with dragging
7	Q And I need to ask you this. Is it possible	7	you through those photos again.
8	that it's something other than water?	8	I now want to turn to your report. I think
9	A Well, I believe if it's if it's sunlight	9	I just have a few questions, go through your report on
10	reflecting, it's reflecting off of water. So, no, it's	10	some attachments. Let's go to AX-31, page 12.
11	either ice or sunlight reflecting, and either way to me	11	Okay, do you recognize that photo, Figure 2
12	it's indicating the presence of water pretty clearly.	12	from your report?
13	Q Okay.	13	A Yes.
14	(Pause.)	14	Q And it is the 1930 photo as I understand it,
15	Okay. Sorry. As I look through my notes	15	and there are two red arrows there that I don't believe
16	here, I want to look at make sure I cover	16	I saw an explanation of. I just wondered in your
17	everything.	17	report, and I may have missed it, but could you tell me
18	Oh, on these Pictometry photos, and that's	18	what those arrows are depicting?
19	the company that takes those, is that correct, versus	19	A Well, yeah, without the text in front of me,
20	the government?	20	I think they're pointing to the channel.
21	A Correct.	21	Q Okay. The bottom red arrow is there's a
22	Q Okay. Do you know how they decide what	22	white line, and maybe this is what you've testified
23	dates they take these photos or is it just random?	23	before this afternoon or maybe this morning before
24	A No, I don't know. They are contracted by	24	lunch. There's a white line there that is the arrow
25	local governments to fly the area, and so there is	25	is pointing over top of. Is that you don't believe
	Page 424		Page 426
1	probably something in the specification with the local	1	that's the channel, correct?
2			
	government scale, time, you know, that kind of	2	A You know, this is the poorest resolution
3	thing.	3	A You know, this is the poorest resolution image and the one that depicts the channel the least
4	thing. Q So, by local government maybe, and if you	3 4	A You know, this is the poorest resolution image and the one that depicts the channel the least clearly. So, it's difficult to know exactly where it
4 5	thing. Q So, by local government maybe, and if you don't know I understand, but the county or?	3 4 5	A You know, this is the poorest resolution image and the one that depicts the channel the least clearly. So, it's difficult to know exactly where it is, but I believe I'm pointing to sort of the darker
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	Page 427		Page 429
1	have anyway. And this is 2014 it's dated, and I	1	caused by, you know, if it floods and comes back, it
2	realize it's not very close, right?	2	goes back in its banks, could some erosion be caused by
3	A Right. It's zoomed out.	3	that typically?
4	Q First of all, can you get your bearings as	4	A Oh, yeah. When a stream floods, it
5	to where everything is?	5	typically moves sediment around, drops sediment in
6	A Yes.	6	places, maybe erodes the bank a little in places.
7	Q If I can point, and maybe we can mark on	7	Q Okay. Also, I don't believe I saw in your
8	this if we need to, but do you see this area my pen is	8	report or have heard you testify today about in any
9	pointing to that appears to be to the west of the main	9	of the photos or anything about wetlands, is that
10	channel, we'll call it, do you see a little darker area	10	correct?
11	there?	11	A Correct.
12	A Well, I do, yeah.	12	MR. McAFEE: Thank you. No further
13	Q When you have the PowerPoint photos, you	13	questions.
14	could probably enlarge them and take a closer look, but	14	JUDGE BIRO: Any redirect?
15	does that appear to you like that could be another area	15	MR. BIERI: Just a few. Thank you.
16	where drainage is channelizing?	16	MR. McAFEE: Do you want me to leave the
17	A You know, I don't know. That wouldn't be my	17	exhibit book there?
18	interpretation just because the way it's like dots,	18	MR. BIERI: Sure. Yes, if you don't mind.
19	dots, and it's not a linear feature, but there is a	19	Thank you.
20	series of dots and there is some more in that field to	20	MR. McAFEE: Sure.
21	the north and east.	21	REDIRECT EXAMINATION
22	So, I didn't look at that very closely to	22	BY MR. BIERI:
23	try to figure out what that is, and so I also didn't	23	Q Mr. Stokely, just a couple questions for
24	look at in, you know, the original imagery that I have	24	you. Did you produce attach to your report every
25	on my computer.	25	single photograph that you could acquire that was
	Page 428		Page 430
1	Q Okay.	1	related to this case?
2	A Not that particular issue that you're asking	2	A I produced a list of them all.
3	me right now.	3	Q Okay.
4	Q Okay, thank you. Oh, I shouldn't have	4	A And I don't remember if I sent you like a
5	turned the page in my notes. I found a couple more	5	copy of every single photo.
6	questions, not about this; just a couple more general	6	Q Okay, that's fair. You produced a list and
7	questions.	7	it's referenced in your report, correct, of every
8	Deep Creek appears to be a fairly good-sized	8	single photograph you could acquire, is that right?
9	creek, right?	9	A Yes.
10	A Yes.	10	Q Okay. And that was regardless of what the
11	Q And would you anticipate it would I	11	photograph showed, correct?
12	didn't see this in your report nor has it been	12	A Yes.
13	discussed that it would flood at certain times of	13	Q All right. And it would be incorrect to
14	the year, or do you know?	14	state that you only referenced in your report
15	A Well, I don't know, you know, specifically.	15	photographs that, or that you cherry-picked
16	But I would guess that it does flood.	16	photographs, correct?
17	Q Did any of the information you looked at	17	A It's the complete list of aerial photos that
18	regarding that creek, did it anything indicate that	18	I obtained.
19	it has flooded or floods?	19	Q All right, thank you. Did you review the
20	A I never saw an image that showed it over its	20	photographs that Dr. Garcia took on her site visit in
21 22	banks or anything like that.	21 22	2018 from the ground?
22	Q That's a better way to say it than flooding.	22	A Right. I reviewed ground photographs, but I don't remember who took them.
23 24	If it did, and I think you indicated you had seen some, like I don't know if damage is the right word on	23	
24	nke i don't know it damage is die right word on	L 24	Q Okay. And I realize that might not have
25	the creek banks. If it did, could some of that be	25	been a perfect surrogate for being on the ground, but

	Page 431		Page 433
1	did those assist you in seeing what the conditions	1	A Yes. I factored in the sun angle, the time
2	looked like on the ground?	2	of day when I was concluding about the presence of
3	A Yes.	3	water, and there are times when the sun angle is such
4	Q All right.	4	that the shadow is casting clear across that tributary,
5	A As a photo interpreter, we can rely on other	5	and that would make it difficult for me to establish
6	peoples' information, ground information.	6	whether there is water in there.
7	Q All right. And did anything in those	7	There are other times when the shadows were
8	photographs make you question your opinions or	8	pointing more in a northern direction, and I felt in
9	conclusion you've reached in this case?	9	that case, in those cases that the dark tone that I'm
10	A No.	10	seeing, it may not be obscured by shadow; that that
11	Q I want to just ask you briefly about AX-10,	11	could be water.
12	page 5. We've seen this a few times, and this will	12	Q Very good. Do you remember the photograph
13	just take a second. This is a Pictometry image, sir,	13	that Mr. McAfee showed you that was it was a
14	from April 4, 2009.	14	well, I'm just going to show it to you.
15	Mr. McAfee asked you if that dark signature	15	This is the black-and-white photograph from
16	here could be something different than water, and my	16	June 8, 2016, AX-10, page 22. Remember that one?
17	question for youis, if that dark signature was not	17	A Yes.
18	water, does that in any way change your ultimate	18	Q Could the white tones that we see around the
19	opinions in this case?	19	confinement building footprint, could that be gravel
20	A No.	20	too, or do you know?
21	Q Now, you talked a little bit about shadows	21	A If it's reflecting if it's dry and it's
22	and water, and I just want to be clear. Are there ways	22	bright, then it could be gravel, yes.
23	as a photo interpreter to tell, at least in some cases	23	MR. BIERI: Okay. Just a moment. Nothing
24	to tell the difference between what's a shadow and	24	further, Mr. Stokely. Thank you for your time.
25	what's water?	25	JUDGE BIRO: Any recross?
	Page 432		Page 434
1	A Yes.	1	MR. McAFEE: I don't have anything further,
2	Q Okay. Can you just describe that? We don't		
		2	
3	need to show a photo to do that, but can you just	2	Your Honor. Thank you.
3 4		1	Your Honor. Thank you. JUDGE BIRO: Mr. Stokely, if you would just
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22

23

24

Q Okay. And sometimes can you look at a
reference like a building and see where the shadow is
pointed and be able to take that information to the
tributary and tell whether something is a shadow or
water?

made? THE WITNESS: Manmade.

JUDGE BIRO: And if you want to slow down,

25 what would be the purpose for building one of those on

1 2	Page 435		Page 437
2	farmland?	1	THE WITNESS: Right.
	THE WITNESS: In this instance, I think I	2	JUDGE BIRO: But what was the farm machinery
3	would probably be speculating if I said why.	3	doing that reflected, that created those exactly even
4	JUDGE BIRO: Just generally on farmland if	4	lines?
5	someone wanted to do that.	5	THE WITNESS: So, one of the explanations
6	THE WITNESS: Well, so to slow the water	6	would be that it was some sort of gang plow or plow
7	down, hold it back a little bit, reduce the velocity of	7	being pulled behind a tractor, and as it turns up the
8	it so that it doesn't erode.	8	soil and buries the thatch from the year before, it
9	JUDGE BIRO: The farmland?	9	creates a you know, sort of moist, wet soil
10	THE WITNESS: Yeah.	10	signature in behind the machine, which would create
11	JUDGE BIRO: In a lot of these pictures,	11	these lines of tones that differ from the surrounding
12	they had a box labeled "farm containment area". On the	12	area.
13	pictures, except for one, am I correct that that was	13	So, it could have been fresh soil that was
14	superimposed; that in fact the hog farm containment	14	dug up by some sort of gang plow or you know, and
15	area didn't exist in that location?	15	I've also seen it in other places, and I don't know if
16	THE WITNESS: Historically. That's correct.	16	these guys do it here, but they will spread manure over
17	That was superimposed back onto the historical pictures	17	their cornfields in patterns like that, and then that's
18	as I understand it.	18	the manure you're seeing.
19	JUDGE BIRO: Okay. And is that superimposed	19	JUDGE BIRO: Okay. So, this dark would
20	by virtue of some program that you were able to use to	20	reflect the moisture level.
21	geographically locate it by latitude and longitude onto	21	THE WITNESS: Right, and the manure being
22	all those other pictures?	22	dark, you know, darker than the soil sometimes. But I
23	THE WITNESS: I believe you're referring to	23	didn't really examine that to come to any type of
24	an exhibit from the region.	24	conclusion, but it's pretty clear that those are lines
25	JUDGE BIRO: It was on all those photographs	25	made by machinery because you can even see where they
	Page 436		Page 438
1	you looked at.	1	turn around at the tops of some of them.
2	THE WITNESS: Yes, yes. And I didn't create	2	JUDGE BIRO: Okay. Okay, I don't have any
3	that label that said "containment barn" or whatever the	3	further questions. Mr. Bieri, do you have any
4	words were. I did not create that. But I would be	4	
5		_	questions?
	I'm guessing it is better than guessing that	5	MR. BIERI: None, Judge. Thank you.
6	exactly what you said is true. You can label something	6	MR. BIERI: None, Judge. Thank you. JUDGE BIRO: Okay. Mr. McAfee?
7	exactly what you said is true. You can label something in a mapping software and it retains its geographic	6 7	MR. BIERI: None, Judge. Thank you. JUDGE BIRO: Okay. Mr. McAfee? MR. McAFEE: No, thank you, Your Honor.
7 8	exactly what you said is true. You can label something in a mapping software and it retains its geographic coordinates, so when you put an older image or	6 7 8	MR. BIERI: None, Judge. Thank you. JUDGE BIRO: Okay. Mr. McAfee? MR. McAFEE: No, thank you, Your Honor. JUDGE BIRO: Okay.
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	Page 439		Page 441
1	MR. BIERI: And we may, if time permits	1	Q Okay. And your testimony today will be on
2	today or tomorrow, we may want to do like a minute	2	behalf of C&S Enterprise, correct?
3	closing, but we would prefer to do that at the end of	3	A Correct.
4	this.	4	MR. McAFEE: I have to get out of cross-exam
5	JUDGE BIRO: Okay.	5	mode. Sorry, Your Honor. I'll try and be a little
6	MR. BIERI: Thanks, Judge.	6	more open-ended in my questions.
7	JUDGE BIRO: Before we leave the hearing, I	7	JUDGE BIRO: That's all right. These are
8	want to make sure we go over all the exhibits, that	8	preliminary questions. Go ahead.
9	we're all on the same page of everything that's been	9	MR. McAFEE: All right, thank you.
10	admitted into the record so we know the whole universe	10	BY MR. McAFEE:
11	of the documents that can be relied on.	11	Q Where did you go to school? Well, did you
12	Okay, Mr. McAfee, would you like to call	12	grow up in what area did you grow up in?
13	your first witness?	13	A I grew up south of Victor, about 11 miles,
14	MR. McAFEE: Yes, I would, Your Honor, and	14	in a little area on a farm.
15	we call the Respondent, Scott Morrow.	15	O Okay. And what kind of farm?
16	JUDGE BIRO: Good afternoon, Mr. Morrow.	16	A Livestock, grain farm, poultry, we raised
17	MR. MORROW: Good afternoon.	17	everything and made our own stuff, so.
18	THE NOTARY PUBLIC: Could you raise your	18	Q What did you do after high school at Victor?
19	right-hand, sir?	19	A I went into construction work for different
20	Whereupon,	20	employers, plus I helped my dad farm. In 1978, me and
21	SCOTT MORROW	21	my wife got married and actually had a farm of my
22	having been duly sworn, was called as a	22	own at that time in the '70s, and I farmed with my dad
23	witness and was examined and testified as follows:	23	up to 1986.
24	THE COURT REPORTER: Can you spell and state	24	Q Okay. And tell us a little bit about that
25	your last name for the record?	25	farm.
	·		
	Page 440		Page 442
1	THE WITNESS: Scott Morrow, M-O-R-R-O-W.	1	A That farm there, we raised on my dad's
2	THE COURT REPORTER: Thank you.	2	farm, beef, confinement hogs, different livestock. On
3	JUDGE BIRO: Yes, please begin.	3	my farm, raised hogs, sold feeder pigs and market pigs,
4	MR. McAFEE: Okay.	4	and then I grain-farmed also.
5	THE WITNESS: Pardon?	5	Q About how many acres?
6	JUDGE BIRO: I'm just talking to Mr. McAfee.	6	A I farmed 150.
7	Go ahead.	7	Q And what crops did you raise?
8	MR. McAFEE: Just wanted to make sure	8	A Corn and beans.
9	everyone was ready.	9	Q Have any hay?
10	DIRECT EXAMINATION	10	A Yup, we had hay occasionally after we had,
11	BY MR. McAFEE:	11	we would have oats.
12	Q Mr. Morrow, Scott, please would you give us	12	Q Okay. What year did you graduate?
13	your date of birth?	13	A 1976.
14	A 8-7-1958.	14	Q Okay. So, 1976 you graduated, did
15	Q Okay. All right, I'm going to jump ahead	15	construction work if I understood you right, and then
16	and then come back. I have a habit of doing that.	16	when you were farming, were you still doing
17	C&S Enterprises is the Respondent in this	17	construction work?
18	matter, correct?	18	A Yes, I've always did construction work when
19	A That's correct.	19	I was farming.
20	Q And I think I put an "s" on the end of it,	20	Q At that time, what kind of construction
21	but technically is it C&S Enterprise?	21	work?
22	A Yes.	22	A Concrete construction.
23 24	Q Who are members, it's an LLC, who are the members of C&S Enterprise?	23 24	Q Is that similar to what you in fact we'll get to that do today?
24	A My wife Carol and myself.	25	A Yes.

	Page 443		Page 445
1	_	1	
1	Q And tell us about what kind of concrete	1	A 1984.
2	construction work you do?	2	Q Okay. A Or '94. Excuse me. 1994.
3	A House foundations, footings, basements, the	3	
4	concrete portion of them, driveways, sidewalks,	4	Q Okay. We'll come back to that maybe, but go
5	foundations for buildings.	5	ahead. You started farming again in 2006.
6	Q Okay. All right. So, we go '78 to '86, you	6	A Yes, and then C&S purchased a farm in the
7	farm with your dad, and then what in '86?	7	fall also of 2006, another property, and got back into
8	A Back up a little bit. October 1st of 1983,	8	the farming aspect.
9	I went out on my own in the construction world, and	9	Q We'll, of course, go through this in more
10	from then to even present day, I am a concrete	10	detail, but what year did you, or did you buy the farm
11	contractor.	11	that we've been talking about for the last day and a
12	Q Does C&S Enterprise do construction work?	12	half?
13	A No.	13	A We took possession in March 1st of 2008.
14	Q Or is that a different company?	14	Q Before I move on from your background into
15	A That's a different company.	15	more the details of this case, when you were growing
16	Q What's the name of that company?	16	up, did you have any interaction, I'll call it, or
17	A Morrow Construction Company.	17	relationship I don't know if those are the right
18	Q Was that the name of the company when you	18	words with the farm that we've been again, I'll
19	started it in '83?	19	call it as we've been talking about for the last day
20	A Yes.	20	and a half?
21	Q Okay. So, anything else before we get into	21	A Yes, I did. Back in the mid-60s, my dad
22	what you did come 1986?	22	rented this farm for a couple years. This farm also
23	A Not previous, no.	23	adjoins my parents' farm. So, it was something that I
24	Q All right. So, you quit farming in 1986?	24	was familiar with pretty much all my life, and from
25	A In 1986, yes.	25	about 1974, it is a farm that I'm an avid hunter and
	Page 444		Page 446
1	Page 444	1	Page 446
1	Q And then what did you do?	1	I hunted this farm every year.
2	<ul><li>Q And then what did you do?</li><li>A Did construction work full time until 2006</li></ul>	2	I hunted this farm every year. Q And by "avid hunter," what are you what
2 3	Q And then what did you do? A Did construction work full time until 2006 and had the opportunity also to get back into the	2 3	I hunted this farm every year. Q And by "avid hunter," what are you what do you hunt?
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	Page 447		Page 449
1 A I can't answer that	-	1 it	. It also adjoins my dad and mom's farm to the east,
	o day. It wasn't important		b we could tie them together.
3 what I did day to day at e		3	Q Are your parents still living?
	ongue-in-cheek than anything.	4	A My mom is. My dad passed away two years ago
	e-year old, you weren't paying		n February.
6 too close attention to	e year old, you weren't puying	6	Q But the farm is still
7 A No.		7	A Yes.
	rious note, when you hunted	8	Q Does your mom still own that farm?
	as you've indicated, do you	9	A Yes.
	recollection of what we've been	10	Q Okay. When it came up for sale, I think you
	through this in more detail	11 sa	aid you bought it from an estate. Mr. Sims had passed
12 maybe but do you have			way?
13 condition of this tributary		13	A Yeah, I bought it, purchased it from Leonard
14 A Yes.	, 	14 S	ims' estate.
15 Q And tell us that.		15	Q Okay. Tell us what you did when you bought
16 A There would be v	water in it at times, not all	16 it	. I think you had just testified it was run-down.
17 the time. In places, like l			irst of all, what do you mean by run-down?
	d walk through it, but other	18	A They didn't do a whole lot of maintenance on
19 than that, I mean, it was	-	19 it	. The landlord would not spend any money to maintain
	the farm at that time?		his farm. The tenants that took care of it didn't
21 A Leonard Sims (pl	honetic) owned the farm.	21 ta	ke care of it. If a tree fell down in a field that
22 Q Okay. And was	he farming it himself?	22 w	as planted, they combined around it and the next year
A No, he rented it of	out.	23 tł	ney planted around it, and that continued.
24 Q Do you know wh	no rented it? And I know I'm	24	So, after I bought it and got possession
25 talking about a span of ye	ears.	25 N	farch 1st of 2008, with approval of the NRCS, which I
	Page 448		Page 450
-	or back in the '70s, Bill		vorked with quite often, we did a lot of clearing of
2 Kuesel (phonetic), and the			crub brush, trees, took out some fencerows and just
3 then up to the time I boug			hen cleaned the place up.
4 Q When you bough	t it in 2008.	4	Q And you say "we". Who is that?
5 A That's correct.		5	A C&S Enterprise.
	now, did you or anyone ever	6	Q Okay, but did you have help or
7 fish in Deep Creek?		7	A I have at that point I have two sons
8 A No.	(* 1 · 1 · 0		o I would ask them to help me as much as I could and
	en anyone fishing there?		hen I hired a construction company or excavating
10 A No.			ompany to come in and help clean clean up the
	it or trap you know,		cees.
12 trap for raccoons, et ceter 13 A No.	a:	12	Q Now, to farm people, cleaning up a farm
			neans something to, I'll say us, but explain a little
14 Q I mean, if you known 15 A Yeah. No. not to	ow. this day. Maybe years	14 n 15	nore about what you mean by cleaning up a farm. A Two different things. Along all the fence-
	ally many people that do that		ows from where the fence runs, trees are growing in
10 ago, but we don't have rea 17 in our area.	any many people that do that		the fencerows. The trees were falling over out in the
	What interested you in		ields. They were canopied over out into the fields to
19 purchasing this farm in 20			he point of taking up valuable farm ground where by
	ad two to three farms that		ust trimming the trees, you could gain 20 to 24 rows
	y I'd like to own a farm again.		f additional grain.
	ge even, this was one of the two	21 0	Other places we would we would clean up
23 or three farms that I had i			reas where scrub brush had been growing out in the
	nterest in purchasing if I	2.2 1	
24 was able to, and the timin	nterest in purchasing if I og was right. It came up for t for 18 months and I bought	24 n	niddle of in the middle of a field. Also, it might ave a lot of little fields and to no avail I had I

1had no livestock, so we would remove the fence, the fencepst, and then remove the trees, and the fence- rows to kind of open it up its bigger fields.1AYes.2QAnyway, I don't mean toI jast wanted to explain of have pour explain why we would see fields and fencerows where maybe we don't today.3AX-10, page 4. Can you see it there in your monitor?AYes.4AYes.A7QNow, as has been pointed out, there is some teres hores or apacyrinopacid, what was there when you bought it. the firm?A10like - woll, I think you can point of un that monitor to show like taking out reces, what you're tuking about?A10like - woll, I think you can point of un that monitor to show like taking out reces, what you're tuking about?A11AOku, up there. That is dua's the old hounding set right free. When I bought it, there was no low ire corrach, to couple it ol concrete foundations, dilapidated. There was a pole bom there.12QYes.13QYes, you can touch ir.14AOkay. For instance - can I touch it?15QYes.16JUGGB BRO: Yes.17BY MR. McAFEE:18QAd I that time, there was a another one that corne across there. There was another one that corne		Page 451		Page 453
2fracepost, and then remove the trees, and the fence- rows to kind of open it up into bigger fields.2QAnyway, I don't mean to - I just wanted to carpin or have you acylian why we would see fields and fencerows where maybe we don't today.3AX-10, page-4. Can yous ceil there in your monitor?AAFincerors where maybe we don't today.4A Yes.A by, while we have this photo up, up where the - where this yellow box is superimposed, what was there where you bought it, the farm?6A by put for the photo, budy are you talking about?AUp by the curve, by the road ther?7P out of the photo, budy are you talking about?AO, up others: That is that is out at the old building11done this yet but I think you can point to you haven?IAO, up, there: That is that is12done this yet but I think you can point to you haven?IAO, up there: That is that is13AO, day, For instance can I touch it?QWell, were and haven?I14AO, day, This result for gight here is fare.III15QYes, you can touch it.III16AO, day, This result for gight here is fare.IANo, the onas had been removed previous to row that come scow: this right not that one, that17AO yes you can and gapin, if yeeIAII17ADey or call and gapin, if yeeIAI18QA any This result for gight here is fare.	1	had no livestock, so we would remove the fence, the	1	A Yes.
3revers to kind of open it up into bigger fields.3explain or have you explain why we would see fields and4Q. I'd like to show you what's been marked as3explain or have you explain why we would see fields and5AX-10, page 4. Car you are it there it your monitor?6146He - where flat yillow hor is superimposed boxes here that aren't777P. Now, as has been pointed out, there is some76148A. Up by the curve, by the road there?999really part of the photo, but are you talking about9010done this yet but link, you can point - you haven't11A. Oh, up there, That is - that's the old11done this yet but link you can point - you haven't11112homestead building site right there. What you're1213Q. Yees, To instance - can I touch it?101014A Okay. For instance - can I touch it?101015Q. Yees, you can touch it.101016A No, the house had been removed previous to111017my baying it.101018Q. Vee, you can touch it.101019also - while were on this subject. Arros the road1010one is Deep Creek. But at hat time, there was a16A. No, the touse had been removed previous to19an other was a fine roow that ada acros that we clean quarter there was a10110one is Deep Creek. But at hat time, there was		· · · ·	2	
4QId like is show you what's been marked as4fencecove where maybe we don't foday.5AX:10, page 4. Can you see it there in your monitor?AX:10, page 4. Can you see it there in your monitor?Also, while we have this plot in you where6A. Yes.the - where that yoll who to is superimposed, what was7QNow, as has been pointed out, there is somethe - where that yoll who the read there?9really part of the photo, but are you talking aboutaA. U, by the care, whe the read there?10like - well, I think you can point or to thatA. O, by the care, whe there was not d wire corners, a couple old concrete13talking shou?1A. O, by op there. That is that's the old14A. Okay. Tor instance - can I touch it?3there was an old wire corners, a couple old concrete15Q. Yes.1A. O, the house hab been removed previous to16J. UDGE BIRO. Yes.1A. No. the house hab been removed previous to17BY MR. McAFEE:1A. No. the house hab been removed previous to18Q. Okay. This real that time, free was aA. No.19A. Okay. This real that time, free was aA. No.20go you recall - and again, if is been21do cone down like that.222Q. And it hink the question may have cores that or cone own had subset for courtely?24A. Do you recall - and again, if is been25do you recall - and again, if is been26A. No.27A. Yes.28 </td <td></td> <td>-</td> <td>3</td> <td></td>		-	3	
5AX-10, page 4. Can you see it there in your monitor?5AXs, while we have this photu up, up where6A Yes.5Alsa, while we have this photu up, up where7Q. Now, as has been pointed out, there is some5there when you bught it, the farm?8text boxes or superimposed boxes here that aren't6the - when you bught it, the farm?9really part of the photo, but are you taking about?9Q. Well, over here where it says "confinement11done this yet but 1 think you can point - you haven't10building -12done this yet but 1 think you can point to it on that11A. Oh, up there. That is - that's the old13ralking about?11there was an old wire connerih, a couple old concrete14A Okay. This area like right - not that one, that9West there was an old harm there.15Q. Yes, you can touch it.10Q. and 1 think the question may have come up16JUDGE BHOC. Yes.10A ond 1 think the question may have come up17me to come down hare and across thave. There was another on11A on, the towns off.18Q. Yes.Q. I and a tartist correct.12A That is correct.19about the trees that are in the25Q. And that it associated with your place.11traduct y there, was that fancerow that would probably1A No, there is not.12Q. Okay. And that was at the time you bought1A No, there is not.13Q. Okay. And that was at the time you bought1 <td< td=""><td></td><td></td><td></td><td></td></td<>				
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24       Q       Do you recall and again, it's been       24       A       No.         25       discussed a lot, but the trees that are in the       25       Q       And is there a house there currently?         Page 452         Page 452         Page 454         1       tributary there, was that a fencerow too at any time       1       A       No, there is not.         2       Q       Has there been for since you can remember?       3       A       No.         3       A       There was a fencerow that was down here that       4       Q       All right. Okay, so anything else you did       to clean up the farm at the time you bought it?         6       if?       A       Yes.       7       rows.         8       Q       Okay.       8       MR. McAFEE:       Okay. Now, I'm not sure, how         10       hold anything in it, but portions of that old fence was       10       (Pause.)       11       BY MR. McAFEE:         12       Q       And maybe just for a little bit of       12       Q       You mentioned NRCS.         13       explanation it might not be central to the issues in       14       Q       Tell us about your involvement, discussions         14       they may have wh	23	that come down here and across that we cleaned up.	23	
25       discussed a lot, but the trees that are in the       25       Q       And is there a house there currently?         Page 452       Page 454         1       tributary there, was that a fencerow too at any time       1       A       No, there is not.         2       Q       Has there been for since you can remember?         3       A       There was a fencerow that was down here that       4       Q       All right. Okay, so anything else you did         5       Q       Okay.       4       Q       All right. Okay, so anything else you did       to clean up the farm at the time you bought it?         6       it?       A       No, just basically clean up trees and fence-         7       A       Yes.       7       rows.         8       Q       Okay.       8       MR. McAFEE: Okay. Now, I'm not sure, how         9       A       It was not a fencerow that would probably       9         10       hold anything in it, but portions of that old fence was       10       (Pause.)         11       still there.       11       BY MR. McAFEE:       Q       You mentioned NRCS.         13       explanation it might not be central to the issues in       13       A       Um-hmm.         14       this case, but maybe you can e	24		24	A No.
Page 452Page 4541tributary there, was that a fencerow too at any time1A No, there is not.2that you remember?2Q Has there been for since you can remember?3A There was a fencerow that was down here that3A No.4kind of come down like that.4Q All right. Okay, so anything else you did5Q Okay. And that was at the time you bought5to clean up the farm at the time you bought i?6it?6A No, just basically clean up trees and fence-7A Yes.7rows.8Q Okay.8MR. McAFEE: Okay. Now, I'm not sure, how9A It was not a fencerow that would probably910hold anything in it, but portions of that old fence was1011g You mentioned NRCS.12Q And maybe just for a little bit of1213explanation	25		25	Q And is there a house there currently?
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	Page 455		Page 457
1	Q Had you had let's see, you started	1	other ones also that I I don't remember their name.
2	farming again in 2006.	2	I worked with Regina a lot.
3	A Um-hmm.	3	Q And I guess the reason I'm asking you those
4	Q Had you had interaction with NRCS between	4	questions is the we're going to talk about the issue
5	then and when you bought this farm on your other farms?	5	here in this case of the tiling and other work you did,
6	A Yes.	6	and those names, I assume, will come up. But had you
7	Q And what about back let's see. You	7	worked with them before this work in 2015 that's at
8	farmed from '78 to '86. Was NRCS in existence then?	8	issue in this case?
9	A Yes, they were but they weren't the	9	A Yes.
10	programs weren't as available as they are today, I	10	Q Okay. I think you've testified to, what,
11	guess.	11	clearing brush, is that right?
12	Q Okay. Now, you've mentioned FSA and I	12	A Yes.
13	believe you said FSA, correct?	13	Q Okay. Did you also at some point do some
14	A Um-hmm.	14	tiling work?
15	Q And NRCS. Maybe just briefly explain what	15	A Yes. Through working with the NRCS in
16	you understand to be the difference.	16	November of 2009, we did some tiling in the area of
17	A NRCS, it is Natural Resources Conservation	17	what is south of the hog building across what we're
18	Service. The FSA is Farm Service Agency. The FSA,	18	calling it that unnamed tributary, up along that, and
19	that's where we we work with what we plant every	19	south on that hill. Those little
20	year because we have to certify our crop, sign up for	20	Q If I can ask you.
21	programs, government programs there.	21	A Okay.
22	NRCS, they kind of handle the actual land	22	Q Had you done any tiling on this farm before
23	part of agriculture along with FSA, because there has	23	that?
24	been times where I've went in to do a sod-bust, and I	24	A Yes. The fall before, we did tiling on the
25	have to start that paperwork on the FSA side, and then	25	other side of Deep Creek.
	Page 456		Page 458
1	_	1	-
1 2	it would go to the NRCS, and it might come back to the	1 2	
	_	1	Q And by well, a couple of questions here, make sure we understand what we mean by tiling.
2	it would go to the NRCS, and it might come back to the FSA to get the approval.	2	Q And by well, a couple of questions here,
2 3	it would go to the NRCS, and it might come back to the FSA to get the approval. Q Can you tell us what a sod-bust is?	2 3	<ul><li>Q And by well, a couple of questions here,</li><li>make sure we understand what we mean by tiling.</li><li>A You place a tile, a tile with slots in it,</li></ul>
2 3 4	<ul> <li>it would go to the NRCS, and it might come back to the FSA to get the approval.</li> <li>Q Can you tell us what a sod-bust is?</li> <li>A It is if you tear up to farm, something</li> </ul>	2 3 4	<ul><li>Q And by well, a couple of questions here,</li><li>make sure we understand what we mean by tiling.</li><li>A You place a tile, a tile with slots in it,</li><li>it's a plastic tile. You place that tile anywhere from</li></ul>
2 3 4 5	<ul><li>it would go to the NRCS, and it might come back to the FSA to get the approval.</li><li>Q Can you tell us what a sod-bust is?</li><li>A It is if you tear up to farm, something that's been grassed for a long period of time or if you</li></ul>	2 3 4 5	<ul><li>Q And by well, a couple of questions here, make sure we understand what we mean by tiling.</li><li>A You place a tile, a tile with slots in it, it's a plastic tile. You place that tile anywhere from three to five-foot deep to drain, help drain the soils.</li></ul>
2 3 4 5 6	<ul> <li>it would go to the NRCS, and it might come back to the FSA to get the approval.</li> <li>Q Can you tell us what a sod-bust is?</li> <li>A It is if you tear up to farm, something that's been grassed for a long period of time or if you tear out a fence the strip between two fields,</li> </ul>	2 3 4 5 6	Q And by well, a couple of questions here, make sure we understand what we mean by tiling. A You place a tile, a tile with slots in it, it's a plastic tile. You place that tile anywhere from three to five-foot deep to drain, help drain the soils. It also adds a great enormous benefit to the crop
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1	A Seaton (phonetic), Seaton Construction.	1	correct?
2	Q And do you know him pretty well?	2	A That's correct.
3	A Yes.	3	Q Tell us specifically how the tile is placed
4	Q Okay. So, you don't do that at least with	4	in the ground and what would make those lines we see.
5	your own equipment.	5	A There's different methods to put tile in the
6	A No.	6	ground. We use a tile plow, which has a big knife on
7	Q Do you have any let me back up. Does	7	it, the tile comes in the top and inserts the tile at
8	your construction business do what I'd call dirt work?	8	a certain level that you want to put it in at.
9	A No. The only dirt work we do is for ourself	9	It's pulled with this one here is pulled
10	of maybe rough backfilling a basement.	10	with a bulldozer, and that's what we do to put the tile
11	Q Related to your concrete work?	11	in the ground. It knifes it in, kind of lifts the soil
12	A Yes.	12	up and sets it in a bed down below into a V, and then
13	Q Do you have any equipment that you use on	13	it just follows along and buries the tile.
14	your farm to do any of this work we've talked about?	14	Q And as Mr. Stokely noted, I don't know he
15	A Yes. I mean, I use my skid-loader to do	15	noted that these lines appear to be made by a machine
16	what I can do to keep the cost as low as I can to	16	that has disturbed the soil. So, that would be
17	maintain it.	17	correct, right?
18	Q Okay, back to the tiling. I think you said	18	A Yes.
19	before this work we're going to talk about in 2009, you	19	Q But that machine here is the tile plow and
20	tiled some other areas of the farm. Did you contact	20	the reason there are lines there like that is where,
21	NRCS first?	21	every line, there is there's a tile underneath it.
22	A Yes.	22	A That is correct.
23	Q And tell me about that.	23	Q And in fact, do many people that farmers
24	A Anytime we did, we'd go in and contact NRCS,	24	you know use a photo like this as their tile map?
25	get the approval of what we're doing. So, I went in	25	A Yes.
	Page 460		Page 462
1	and contacted them. A lot of what we did, too, if the	1	Q Okay. Now, these tiles, you use the term
2	project started out smaller, we had the availability of	2	"pattern tile". What do you mean by that?
3	contacting them and they may send out a field agent to	3	A If you notice, the tile are put in in a
4	okay something else out in the field.	4	sequence pattern parallel to each other, spaced apart
5	Q And you've done that?	5	evenly. It's called pattern tile. Otherwise you would
6	A Yes.	6	see lines going kind of all over in certain places.
7	Q On this farm?	7	Q And are these tile put everywhere or do you
8	A Yes.	8	put them in areas where you only need them? Explain
9	Q Okay. Fall of 2009, you said you decided to	9	that.
10	do some tiling, and I'd like to show you what's been	10	A In this day and age, a lot of people are
11	marked as AX-10, Agency Exhibit 10, page 7.	11	putting them everywhere because one thing it does do,
12	Okay. I think you're going to be able to	12	it adds a great value to your farm. The productivity
13	solve a mystery for us. Could you tell us what you see	13	level is much higher. The erodability is lower. Farm
14	on Agency Exhibit 10, page 7?	14	auctions that I have went to that have had pattern-
15	A Are you talking about those little lines	15	tiling are much more valuable than ones that aren't.
16 17	that go all over?	16 17	Q Okay. Now, these tile have to release
17	Q Yes.		somewhere, right, or outlet?
18 19	A Those are actually what you call pattern- tiling a field. Those are the actual tile lines that	18 19	<ul><li>A That is correct.</li><li>Q And can you show us on this?</li></ul>
20	were installed.	20	<ul><li>Q And can you show us on this?</li><li>A Let me think. There are four three</li></ul>
20		20	A Let me think. There are four three different outlets. One is down in this area by the box
21	Q Okay. And let's talk about this a minute. First of all, the date on this aerial photo is March	21	-
22	14, 2010.	22	there for the hill. The one that goes up the southwest side of the unnamed tributary outlet is right there.
23 24	14, 2010. A Um-hmm.	23	The one on the other side that goes up along the
27			
25	Q Now, this tiling was done the fall before,	25	tributary and those the tile lines that come off of

	Page 463		Page 465
1	it, an outlet right there. And then there is another	1	Q Okay. While we're on this, if you see, it
2	one, I believe, somewhere up in this area.	2	appears there is two lines that go right alongside the
3	Q Okay. And there you marked up and maybe	3	tributary on each side. Is that right?
4	we'll we'll decide. We might want to mark this	4	A That's correct.
5	exhibit. I have a few more questions, so.	5	Q Okay. Tell me about your work with NRCS on
6	First of all, by outlet we mean	6	those and other tile lines.
7	JUDGE BIRO: Wait, wait. Wait, Mr. McAfee.	7	A Those two tile lines, we were doing the
8	MR. McAFEE: Oh, I'm sorry.	8	other pattern-tiling. We did this whole project was
9	JUDGE BIRO: Before we leave, we've got to	9	not totally approved. They come out and approved some
10	say the record reflects that they	10	more out in the field. These two lines were part of
11	MR. McAFEE: Okay.	11	that approval out in the field; as a matter of fact,
12	JUDGE BIRO: That the witness has imposed on	12	recommended by the field agent.
13	the Exhibit AX-10, page 7, four dots indicating four	13	The one on the southwest side was
14	outlet points. One directly on the termed "Deep Creek"	14	recommended to put in there for future use. I had
15	on the east side of the photograph. And another one on	15	applied for Equip cost/share project with the NRCS, and
16	the south termed "Deep Creek".	16	she said put those that in there for future use and
17	MR. McAFEE: Whoops, sorry. My mistake, I	17	at that same time, we had talked about I asked a
18	didn't mean to do that.	18	question about this so-called unnamed tributary. We
19	JUDGE BIRO: One more or less on where it	19	discussed, and I said, is this area able to be closed
20	says "approximate point of the impacted stream	20	and put what we call basins or terraces in to make it
21	segment", and then one in the lower right corner of the	21	more manageable. And she said yes, it would be. Just
22	reference box, adjacent to the lower right corner of	22	make sure that you have enough capacity to handle the
23	the reference box.	23	water to transfer it from top to bottom.
24	Am I correct, Mr. Morrow?	24	So, we did that one. The same way with the
25	THE WITNESS: Yes.	25	one on the other side, was for future use.
		1	
	Page 464		Page 466
1	Page 464 JUDGE BIRO: Okay. Go on.	1	Page 466 MR. MUEHLBERGER: Objection, Your Honor.
1 2	-	1 2	_
	JUDGE BIRO: Okay. Go on.	1	MR. MUEHLBERGER: Objection, Your Honor.
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	Page 467		Page 469
1	Mr. Morrow is going to say the whole reason I did this	1	MR. MUEHLBERGER: Okay.
2	is because a person that was on my witness list told me	2	BY MR. MCAFEE:
3	to, and, oh, by the way, we're not going to call her.	3	Q Okay, and then maybe we should take this pen
4	JUDGE BIRO: Okay. So, hearsay is	4	and draw a circle around each one of those, if you
5	admissible, so I'm going to overrule your objection,	5	would.
6	but I'll give you the opportunity to request a subpoena	6	And for purposes of the record could you, or
7	and we could subpoen her to appear.	7	I can do it for you, if we could write at the bottom
8	MR. BIERI: Okay.	8	here, and then I'll put it back up on the screen, "2009
9	JUDGE BIRO: And if we can get her here	9	Tile Outlets". Would that be accurate?
10	while we're here this week, you know, we'll have her	10	A Yes.
11	testify, and if not, we will either come back or do her	11	Q Okay, those green dots are still there, so I
12	testimony by video-conferencing if you feel the need to	12	hit "clear", I believe.
13	call her when we're done.	13	A Sure.
14	MR. BIERI: Okay, thank you.	14	Q Did that get rid of them? All right. I'll
15	MR. McAFEE: Your Honor, all I would add,	15	let everybody take a look at that. I think you can go
16	and I wanted to check my the prehearing conference	16	back to the stand, Scott.
17	notes of Mr. Barnwells (phonetic), but I believe I	17	MR. McAFEE: Let's see, to mark this as an
18	indicated at that time that I didn't plan to call Ms.	18	exhibit, Your Honor, I think we are our last one was
19	Leer or Mr. Seaton, but I need to check those notes	19	RX-5.
20	just so I I don't believe I sprung this on him at	20	JUDGE BIRO: I don't know that we admitted
21	the last minute.	21	any Respondent's exhibits up to now, but what have we
22	JUDGE BIRO: Okay. Well, we'll check too.	22	numbered them as?
23	MR. McAFEE: Yeah.	23	MR. McAFEE: Okay, Your Honor. We had
24	JUDGE BIRO: And we can revisit the issue if	24	stipulated to all of the Respondent's exhibits,
25	that turns out to be the case.	25	correct?
	Page 468		Page 470
1	Page 468 MR. McAFEE: Right. All right. Thank you.	1	-
1 2	Page 468 MR. McAFEE: Right. All right. Thank you. JUDGE BIRO: Go ahead.	1 2	Page 470 JUDGE BIRO: Okay. MR. MUEHLBERGER: That's right.
	MR. McAFEE: Right. All right. Thank you.		JUDGE BIRO: Okay. MR. MUEHLBERGER: That's right.
2	MR. McAFEE: Right. All right. Thank you. JUDGE BIRO: Go ahead.	2	JUDGE BIRO: Okay.
2 3	MR. McAFEE: Right. All right. Thank you. JUDGE BIRO: Go ahead. BY MR. McAFEE:	2 3	JUDGE BIRO: Okay. MR. MUEHLBERGER: That's right. JUDGE BIRO: Okay, and how many were there?
2 3 4	MR. McAFEE: Right. All right. Thank you. JUDGE BIRO: Go ahead. BY MR. McAFEE: Q Okay, Mr. Morrow well, maybe we had	2 3 4	JUDGE BIRO: Okay. MR. MUEHLBERGER: That's right. JUDGE BIRO: Okay, and how many were there? MR. McAFEE: Five.
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	Page 471		Page 473
1	it first?	1	MR. BIERI: Okay, thank you.
2	MR. McAFEE: I'm sorry, Your Honor?	2	JUDGE BIRO: So, we're going to move on.
3	JUDGE BIRO: Would you like to move that	3	MR. BIERI: Sorry, I didn't mean to
4	into evidence now?	4	misrepresent that conversation. That was different.
5	MR. McAFEE: Yes, I would. Yes.	5	JUDGE BIRO: No problem. Okay, Mr. McAfee.
6	JUDGE BIRO: Okay.	6	BY MR. McAFEE:
7	MR. McAFEE: I move to admit RX-6.	7	Q Okay. Mr. Morrow, after the tiling in the
8	MR. MUEHLBERGER: No objection.	8	fall of 2009, what I hate to just say what did you
9	JUDGE BIRO: Okay, RX-6 is admitted into the	9	do next, but did you do any further work in the farm
10	record.	10	after that prior to the 2015 work?
11	(The document referred to was	11	A Yes. We did some tiling up to the clear
12	marked for identification as	12	to the east part of the farm at a later date. We did
13	Respondent's Exhibit No. RX-6	13	some clear tree-clearing straight south of this. I
14	and was received in	14	believe it was in 2011. But, yes, we did other
15	evidence.)	15	projects.
16	JUDGE BIRO: And just to go back to the	16	Q Prior, and we'll get into your 2015 work and
17	point we were making about the testimony, my staff	17	what led up to it here in a minute, but did you I
18	attorney in the interim has checked his notes, and in	18	guess we can use AX-10 while it's up there, and you've
19	fact Mr. McAfee was correct in his recollection. He	19	marked the tile outlets. At any time prior to placing
20	did indicate in the prehearing conference that he may	20	the tile in that drainage-way in 2015, did you do any
21	not call Ms	21	work on that area at all?
22	MR. McAFEE: Leer.	22	A Yes. In the lower, where the crossing is,
23	JUDGE BIRO: Leer as a witness, which	23	from there upward probably 20-30 feet, and downward
24	gave you a time to subpoena her if you wanted or list	24	from there, I did some reshaping, reshaping to
25	her. You didn't do it.	25	maintenance of waterway on it a couple of different
	Page 472		Page 474
1	MR. MUEHLBERGER: Your Honor, Mr. McAfee was	1	times with the approval of the NRCS.
2	MR. MUEHLBERGER: Your Honor, Mr. McAfee was not clear during the prehearing conference as to which	2	times with the approval of the NRCS. Q By approval, do you mean you asked them
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	Page 475		Page 477
1	Q And do you remember was there water present	1	you heard about her testimony about the size of the
2	when you did that work?	2	tile.
3	A The one time there was minimally. The one	3	A I heard that she had testified that the tile
4	time there was not.	4	were undersized for the area that they drained, and
5	Q When you say were those two times close	5	that's what I heard.
6	to each other?	6	Q And what's your thought about that?
7	A No, they were probably 18 to 20 months	7	A I believe they're very adequate. As a
8	apart.	8	matter of fact, they are oversized for the area that
9	Q Okay. Okay, let's talk now about your work	9	those pipes drain.
10	that you did in 2015. Did your planning for that work	10	Now, on a big rain, I'm not sure we make a
11	or did it start sometime previous, or explain the	11	big enough pipe to handle that or area, and we have
12	process?	12	some big rains anymore. But I can say this. To my
13	A The plan was already in place actually in	13	knowledge, water has only went over that berm two times
14	2009, but, yes, the planning was before that because	14	since it has been installed.
15	one of the tile that is within this project is made up	15	Q Okay. So, when did you actually start on
16	of center coils that come in a big roll of tile. I had	16	the work then for this I think the aerials show,
17	collected a bunch of these to help save on cost, and I	17	and let's look at AX-10, 21. Excuse me. That's not
18	would put two of them together and they would make a	18	the one I was looking for.
19	longer tile of about 22 foot, 6 inches.	19	Let's look at AX-10, page 17, and that's
20	Starting in like 2013, I started putting	20	dated March 20, 2015, and that's the is that the
21	these together, and as I would get them put together, I	21	year you did the work?
22	would bring them over to this pole barn here and store	22	A Yes.
23	them into there to get enough to reach that distance.	23	Q And I believe there's been has been some
24	Q I guess I find the center coil thing, how	24	testimony from various witnesses that it appears the
25	important that is to the issue here. I mean, is it	25	trees have been removed in the upper portions. Is that
	Page 476		Page 478
1	something that a lot of people do or why do you do	1	1 1 10
			what you heard?
2	that?	2	what you heard? A Yes.
2 3	that? A No, a lot of people don't use them because		-
		2	A Yes.
3	A No, a lot of people don't use them because	2 3	<ul><li>A Yes.</li><li>Q Okay. Tell us, did you do that?</li></ul>
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	Page 479		Page 481
1	dams, I think they've been called. Did you do that	1	did the work in 2015?
2	work, too?	2	A Yes, I did.
3	A Yes.	3	Q And you were aware of this determination
4	Q Okay. Now I'd like to turn to I'd like	4	then?
5	to go to I'll put on the screen RX-4.	5	A Yes.
6	Okay, Mr. Morrow, I've put up Respondent's	6	Q Okay. Now, you're also aware that Mr.
7	Exhibit 4, page 1 of 2. This has been discussed before	7	Carrington has testified about this, and you're also
8	in this hearing. But before we get to that, I want to	8	aware, aren't you, that there was a final wetlands
9	ask you before doing this work that you've just talked	9	determination that found there was a wetlands along the
10	about, did you contact NRCS for a wetlands	10	full length of this tributary, right?
11	determination?	11	A That's correct.
12	A Yes, I did.	12	Q When did you get that determination?
13	Q When did you do that?	13	A After the project was done.
14	A In the spring, I believe it was, of 2011.	14	Q Now, you've also appealed that and you lost,
15	Q And how did you make that contact?	15	right?
16	A I went into their office and requested	16	A That's correct.
17	wetland determination of the whole farm.	17	Q What else did you do before you started the
18	Q What did you get in return?	18	work that spring? Who else did you contact?
19	A They had they came out. It took awhile.	19	A Where the inlets of this project start
20	They come out the following it was probably six-	20	actually is not private property. It is actually
21	eight months maybe, come out and did the actual, look	21	county. So, I contacted the county, the supervisor for
22	over the farm and they made a comment we had to go to	22	secondary roads of Iowa County because I did not want
23	an area and do a field test, take the probe of the	23	to do something that I shouldn't do to hurt something.
24	soil, and as such, I was there present when they did	24	So, I contacted him, told him what my plan was, that I
25	this.	25	was going to put the two inlets there to catch that,
	Page 480	1	Page 482
	_		_
1	So, we went and did that. They said it	1	put the cage in front of it, and the stand-pipes, and
2	So, we went and did that. They said it would be a while before I got the information back.	2	put the cage in front of it, and the stand-pipes, and as such like that.
2 3	So, we went and did that. They said it would be a while before I got the information back. The young man and young lady, they came out of the	2 3	put the cage in front of it, and the stand-pipes, and as such like that. Q All right. Well, let's take a look at AX-
2 3 4	So, we went and did that. They said it would be a while before I got the information back. The young man and young lady, they came out of the Fairfield office. I can't tell you their name, but	2 3 4	put the cage in front of it, and the stand-pipes, and as such like that. Q All right. Well, let's take a look at AX- 10, page 7, and I've got the one it has been marked
2 3 4 5	So, we went and did that. They said it would be a while before I got the information back. The young man and young lady, they came out of the Fairfield office. I can't tell you their name, but hadn't heard anything from them for quite some time.	2 3 4 5	put the cage in front of it, and the stand-pipes, and as such like that. Q All right. Well, let's take a look at AX- 10, page 7, and I've got the one it has been marked as RX-6, and I think we'll have you come back and mark
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	Page 483		Page 485
1	of the testimony has occurred during this hearing about	1	A That would be the western boundary coming
2	the May 15, 2018, site visit and the stream photos?	2	out.
3	A Yes.	3	Q And then the road is actually the northern
4	Q And so that was actually on county property,	4	boundary, is that right?
5	not private property, is that your understanding?	5	A Correct.
6	A Correct.	6	Q Except for the triangle piece, you've marked
7	Q Okay. All right, why don't you come back	7	that.
8	and mark that, outline it for the record so we're	8	A Yes.
9	clear.	9	Q And then the eastern boundary you can't see
10	JUDGE BIRO: Maybe, Mr. Morrow, if you don't	10	on here, is that right?
11	mind, you could also draw an outline of your no, no,	11	A That is correct.
12	no, it's fine. Draw an outline of all of your property	12	Q And then what is the southern boundary that
13	so we know sort of the boundaries of what your property	13	we can see on this map?
14	is since you've mentioned your adjacent parents'	14	A The ground protrudes south further yet.
15	property, and county property.	15	Q Okay. So, the creek is not the southern
16	MR. McAFEE: Okay. Your Honor, I'm not sure	16	boundary.
17	we can show all of where he we'll have him mark what	17	A No.
18	he can on this, and then we'll find another exhibit	18	Q Okay. So, you can't mark the southern
19	that might be better, too.	19	boundary on this exhibit.
20	JUDGE BIRO: Okay.	20	A No.
21	MR. McAFEE: All right. We'll remove it so	21	Q Okay. We'll find a better exhibit for you
22	he can write on it. Okay, why don't I give you this.	22	to mark your property. I think I saw one that someone
23	First, he's going to mark the triangle piece as best he	23	had already marked for some other purpose, and I can't
24	can. Part of it is not on there. That's good.	24	remember which exhibit that was.
25	THE WITNESS: Mark my ground?	25	JUDGE BIRO: Mr. Morrow, so the Deep Creek
	Page 484		5 100
		1	Page 486
1	_	1	Page 486
1 2	JUDGE BIRO: Yes, mark the boundaries that	1	is within your property.
1 2 3	JUDGE BIRO: Yes, mark the boundaries that you can on that exhibit, if you would.	1 2 3	is within your property. THE WITNESS: That is correct.
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	Page 487		Page 489
1	mentioned?	1	JUDGE BIRO: Could we take a five-minute
2	A On the determination date and then the	2	break, please?
3	certification date.	3	MR. McAFEE: Oh, sure.
4	Q Okay. And, again, did you have this	4	JUDGE BIRO: Okay. We'll stand in a five-
5	determination at the time you did the work?	5	minute recess.
6	A No.	6	Mr. Morrow, please don't discuss your
7	Q What determination did you have?	7	testimony with anyone.
8	A I had the one that we had on the screen	8	(Whereupon, a short recess was taken.)
9	earlier there where it said there was not a wetland on	9	JUDGE BIRO: Please continue.
10	this tract.	10	MR. McAFEE: Thank you.
11	Q Okay.	11	BY MR. McAFEE:
12	A I'm not sure what form it is.	12	Q Mr. Morrow, I want to now turn to an issue
13	Q While we're on that subject, since this	13	that's received quite a bit of discussion during this
14	determination was made, what have you done in response	14	hearing, and that is the hog building, okay?
15	to this determination, other than appeal it, and it's	15	A Okay.
16	been noted by Mr. Carrington that appeal was denied?	16	Q All right. When did you first plan to sell
17	A Since the latter?	17	off part of your farm, which the record shows you did,
18	Q Yes.	18	for a hog building?
19	A I have basically tried to maintain my farm,	19	A The end of May.
20	to be a good steward as well as I can.	20	Q Okay. Now maybe I need you know, again I
21	Q What have you done I'm sorry to	21	want to make sure I close the loop on when you yes,
22	interrupt, but what have you done regarding the area	22	you've testified as to when you did the work and that
23	that this in this determination, it determined 1.3	23	was in, you testified when?
24	acres were a wetland, correct?	24	A April.
25	A Um-hmm.	25	Q Okay. At the time you did the work that
	Page 488		Page 490
			1490 190
1	Q And as you've seen, that wetland is	1	
1 2	Q And as you've seen, that wetland is pretty much follows the tributary. What have you done	1 2	we're talking about, had you planned to sell off any
	-		
2	pretty much follows the tributary. What have you done	2	we're talking about, had you planned to sell off any land for a hog building?
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3       A       Oh, yeah.       3       building?         4       Q       Had you ever had any discussions with Lance       4       A       For the economics of the I get the manure         5       about your plans for this farm or a hog building or       5       out of that hog building to put on the farm ground to         6       anything like that?       6       raise crops which it is an organic fertilizer versus         7       A       No, I have not.       7       a commercial fertilizer, which helps the organisms in         8       Q       Then how did Lance know about it because I       8       the ground.         9       M       There has been, I think, some question about         10       A       I'm not sure.       10         11       Q       You don't have any knowledge how he found       11       A       The part I take care of is, I contact the         12       out about it.       12       people that actually apply the manure to my farm.       13         13       A       No.       13       That's the only part I take care of and then I pay         14       Q       Did you have knowledge of him sending these       14       them for it. As far as and then they contact the         15       emails at the time he sent them?       16				
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	23	area to MCM who will build a hog confinement and that	23	Q By an umbilical cord, maybe explain that a
		-		
	24	you installed the large tiles and tilled the channel	24	little bit.

	Page 495		Page 497
1	with the knives, and on the other end is attached to a	1 there	?
2	pump that pumps the manure out of the facility into the		Yes, I have.
3	hose.		2 Do you keep track of when there is water
4	Q Has any manure, at least up to this point,	4 there	and when there isn't?
5	been applied on the soil surface?	5 A	A No.
6	A No.	6 (	
7	(Pause.)		Yeah.
8	Q Mr. Morrow, I've placed up what has been	8 (	Okay. What about a channel, is there a
9	marked as AX-10, page 14, and that's just one I pulled		nel there?
10	here to take a look at. Do you see in that aerial, and	10 A	I would not call it a channel, as in
11	it's dated September 16 of 2014, so that was after you	11 num	erous places on a farm where sometimes we're not
12	owned the property, right?		d of them, but we have erosion spots. The past, I
13	A That is correct.	-	know how many years, it's been really tough
14	Q There appears to be, and what's been		g to hold waterways or anywhere you do work, even
15	referred as a crossing over do you see where that	-	ng with the NRCS because of the big rains. You
16	is?		your tail off to fix something to make it better,
17	A Yes.		hen we get these big, what we call gully-washers
18	Q Explain what that is.		five to seven inches of rain in a short time that,
19	A That is the area that we follow to do the		just can't control that much water no matter what
20	spring work, to harvest or anything. That is the path		urpose is.
21	that we follow to get to the southern part of that	1	What about the upper portion that you
22	of the farm. I'm very adamant about following the same		y, above the crossing. You've seen the photos.
23	path all the time because of compaction levels and such		, you've been there yourself. Are those photos
24	like that. That is the area that we follow to get to		ect of the portion above the that's on the
25	the south part of the farm on the west side of Deep		ty property?
20	the south part of the farm on the west side of Deep	20 000	, property.
			Page 498
	Page 496		Fage 490
1	Page 496 Creek.	1	I'm sorry. I didn't word that question very
1 2	_		
	Creek.	2 well	I'm sorry. I didn't word that question very
2	Creek. Q Could that crossing be in other places along	2 well 3 the -	I'm sorry. I didn't word that question very Let's start with you've seen the photos of
2 3	Creek. Q Could that crossing be in other places along that, what I would say the topo map shows as being	<ul><li>2 well</li><li>3 the -</li><li>4 as co</li></ul>	I'm sorry. I didn't word that question very Let's start with you've seen the photos of - from the Complainant above what you've testified
2 3 4	Creek. Q Could that crossing be in other places along that, what I would say the topo map shows as being relatively flat, the lower portion?	2 well 3 the - 4 as co 5 A	I'm sorry. I didn't word that question very Let's start with you've seen the photos of from the Complainant above what you've testified punty property.
2 3 4 5	Creek. Q Could that crossing be in other places along that, what I would say the topo map shows as being relatively flat, the lower portion? A Yes, we we have for a short time a little	2 well 3 the - 4 as cc 5 A 6 (	I'm sorry. I didn't word that question very Let's start with you've seen the photos of from the Complainant above what you've testified punty property. A That's correct.
2 3 4 5 6	Creek. Q Could that crossing be in other places along that, what I would say the topo map shows as being relatively flat, the lower portion? A Yes, we we have for a short time a little bit lower than that we crossed. I did not like the	2 well 3 the - 4 as co 5 A 6 ( 7 A	I'm sorry. I didn't word that question very Let's start with you've seen the photos of from the Complainant above what you've testified punty property. That's correct. Have you walked up in there yourself?
2 3 4 5 6 7	Creek. Q Could that crossing be in other places along that, what I would say the topo map shows as being relatively flat, the lower portion? A Yes, we we have for a short time a little bit lower than that we crossed. I did not like the idea of having a crossing that was 30, 40-foot wide	2 well 3 the - 4 as co 5 4 6 ( 7 4 8 (	I'm sorry. I didn't word that question very Let's start with you've seen the photos of from the Complainant above what you've testified punty property. A That's correct. Have you walked up in there yourself? A Yes.
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	Page 499		Page 501
1	_	1	_
1	sometimes it didn't in areas. Yes, there was a bank.	1	JUDGE BIRO: Well, unless there is any
2	Some of it was from neglect. In places, there weren't.	2	objection we
3	Q Mr. Morrow, why did you do the work you did	3	MR. BIERI: Of course not.
4	in 2015?	4	JUDGE BIRO: will accept it as it was.
5	A I did it I consider myself as a farmer	5	MR. McAFEE: Okay.
6	and a steward of the ground. I try to leave it in a	6	JUDGE BIRO: Okay, please proceed.
7	better situation than when I got it. I did it to	7	MR. MUEHLBERGER: Okay.
8	improve it economically and environmentally because,	8	CROSS-EXAMINATION
9	like I say, economically it's more farm-friendly.	9	BY MR. MUEHLBERGER:
10	Environmentally I put in we call them basins, and	10	Q Good afternoon, Mr. Morrow.
11	the NRCS uses a lot of those.	11	A Hello.
12	I think I've been I've heard it referred	12	Q So, I'm putting up on the screen here Agency
13	to as a check dam, a dam, but they're actually called a	13	Exhibit 30, page 6. Was this your response to EPA when
14	terrace or a basin through the NRCS. They're very	14	they sent you a Clean Water Act request for
15	common. They put them in an area where water flows to	15	information?
16	catch water, to slow it down with stand-pipes up to	16	A Yes.
17	drain it, to help drain it, to help stop erosion.	17	Q Okay. And I'm going to read directly from
18	I also did it because I have seen with my	18	this. It says, "Respondent's activities within the
19	own eyes on big rains coming off off of my property,	19	drainage-way on Respondent's property prior to July
20	corn stalks, bean stubble, and grasses that flow	20	2015 were to conduct normal crop farming operations
21	directly into Deep Creek. Since doing this, that has	21	such as tillage, planting, and harvesting."
22	not been the case, and even silt. Even with no	22	So, based on this document, at various
23	till, you still get silt. Since doing this, my basins	23	points you have cropped over that portion of the
24	have caught all of this debris and silt where I can	24	tributary, correct?
25	pick that up, take it back up onto the slopes on the	25	A Yes.
	Page 500		Page 502
1	_		rage 502
1			O Oleren I'm metting on the second According
2	top of the hill where the bean stubble, the corn stalks	1	Q Okay. I'm putting up on the screen Agency
2	can deteriorate on my property and pick the clean	2	Exhibit 31, Appendix B, page 13.
3	can deteriorate on my property and pick the clean you clean out dry ponds to maintain them. Take that	2 3	Exhibit 31, Appendix B, page 13. MR. MUEHLBERGER: And, Britt, would you mind
3 4	can deteriorate on my property and pick the clean you clean out dry ponds to maintain them. Take that and put it where it needs to be put back in place.	2 3 4	Exhibit 31, Appendix B, page 13. MR. MUEHLBERGER: And, Britt, would you mind zooming in? It's pretty far out, so I'd like to zoom
3 4 5	can deteriorate on my property and pick the clean you clean out dry ponds to maintain them. Take that and put it where it needs to be put back in place. Before, it was gone. It went into Deep Creek and	2 3 4 5	Exhibit 31, Appendix B, page 13. MR. MUEHLBERGER: And, Britt, would you mind zooming in? It's pretty far out, so I'd like to zoom in a little bit closer.
3 4 5 6	can deteriorate on my property and pick the clean you clean out dry ponds to maintain them. Take that and put it where it needs to be put back in place. Before, it was gone. It went into Deep Creek and wherever else on downstream.	2 3 4 5 6	Exhibit 31, Appendix B, page 13. MR. MUEHLBERGER: And, Britt, would you mind zooming in? It's pretty far out, so I'd like to zoom in a little bit closer. MR. BIERI: Tell me when.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>can deteriorate on my property and pick the clean you clean out dry ponds to maintain them. Take that and put it where it needs to be put back in place.</li> <li>Before, it was gone. It went into Deep Creek and wherever else on downstream.</li> <li>MR. McAFEE: I have no further questions at this time.</li> <li>JUDGE BIRO: Okay.</li> <li>MR. MUEHLBERGER: Your Honor, may we just have five quick minutes to prepare for JUDGE BIRO: Sure.</li> <li>MR. MUEHLBERGER: Thank you.</li> <li>JUDGE BIRO: Of course, it's 4:20, and we can only stay until about five. So, yeah.</li> <li>MR. MUEHLBERGER: Five minutes is all I need.</li> <li>JUDGE BIRO: Okay. All right. Let's stand in recess five minutes.</li> <li>(Whereupon, a short recess was taken.)</li> <li>MR. McAFEE: Your Honor, I realized over the break that on RX-6, the witness marked out that county property after it was admitted. And so I just wanted</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Exhibit 31, Appendix B, page 13.</li> <li>MR. MUEHLBERGER: And, Britt, would you mind zooming in? It's pretty far out, so I'd like to zoom in a little bit closer.</li> <li>MR. BIERI: Tell me when.</li> <li>MR. MUEHLBERGER: Just go in a little bit more. Okay.</li> <li>BY MR. MUEHLBERGER:</li> <li>Q So, Mr. Morrow, you recognize this as your farm property.</li> <li>A Yes.</li> <li>Q Okay. And just for purposes JUDGE BIRO: I'm sorry to interrupt. When you say "this," you mean the whole page, or do you recognize your farm property within this photograph? THE WITNESS: Yes, I recognize what's in this photograph.</li> <li>JUDGE BIRO: Okay.</li> <li>BY MR. MUEHLBERGER:</li> <li>Q So, do you recognize that a portion of this image is your farm property?</li> <li>A Yes.</li> </ul>

	Page 503		Page 505
1	A May I draw on the screen?	1	It's not detailed enough, even drawing Deep Creek was
2	Q Yes, please.	2	tough, let alone the tributary. If you can zoom it in,
3	(Pause.)	3	I might be able to draw.
4	Thank you, and could you also draw on the	4	Q Sure, we can do that. I'll clear the
5	screen here where that tributary that we've been	5	that's good right there.
6	talking about so much the last couple days, where that	6	Okay, can you make it out a little bit
7	is located, please?	7	better now?
8	(Pause.)	8	A I'll I'll do my best.
9	Thank you. Okay, I'm going to and just	9	Q Okay. All right. Is it safe to say so,
10	for the record, the date of this image is September 14,	10	the image here is from August 2008, and you testified
11	2006. I'll go ahead and clear this.	11	that you purchased this property in March 2008, is that
12	Now I'm going to show Agency Exhibit 31,	12	correct?
13	Appendix B, page 14. The colors are a little bit	13	A We took possession.
14	different but, Mr. Morrow, do you also recognize your	14	Q Took possession of the property in March
15	farm property on this image?	15	2008. So, is it safe to say that you began doing some
16	A Yes, I see the outline of it, yes.	16	of the work on the tributary pretty much right away? I
17	Q Okay. And once again, could you please re-	17	mean, this was within months of you taking possession
18	draw where Deep Creek would be and where that tributary	18	of the property and there doesn't seem to be hardly any
19	would be, and take your time?	19	vegetation as compared to two years prior, is that
20	A 'Cause this is not a very detailed map of	20	correct?
21	the farm, so I'll do my best to draw what	21	A I didn't I did not work on the tributary
22	Q Sure. If it helps, I could zoom in a little	22	in 2008. I worked on the vegetation that came off the
23	bit more. Thanks.	23	tributary and a fence line.
24	JUDGE BIRO: What exhibit number is this	24	Q Okay. So, you cleared the vegetation around
25	again?	25	the tributary, correct?
	Page 504		Page 506
1	Page 504	1	Page 506
1 2	MR. MUEHLBERGER: This is Agency Exhibit 31,	1	A Not on the tributary, but the fence line
1 2 3	MR. MUEHLBERGER: This is Agency Exhibit 31, Appendix B, page 14.	2	A Not on the tributary, but the fence line that came into it.
2	MR. MUEHLBERGER: This is Agency Exhibit 31, Appendix B, page 14. THE WITNESS: The tributary is not defined	2 3	<ul><li>A Not on the tributary, but the fence line that came into it.</li><li>Q Okay. And then you also through your</li></ul>
2 3	MR. MUEHLBERGER: This is Agency Exhibit 31, Appendix B, page 14.	2	<ul> <li>A Not on the tributary, but the fence line</li> <li>that came into it.</li> <li>Q Okay. And then you also through your</li> <li>response to EPA's Clean Water Act request acknowledged</li> </ul>
2 3 4	MR. MUEHLBERGER: This is Agency Exhibit 31, Appendix B, page 14. THE WITNESS: The tributary is not defined well enough for me to actually draw it in on this picture.	2 3 4	A Not on the tributary, but the fence line that came into it. Q Okay. And then you also through your response to EPA's Clean Water Act request acknowledged that at some time, you did plow through the tributary
2 3 4 5	MR. MUEHLBERGER: This is Agency Exhibit 31, Appendix B, page 14. THE WITNESS: The tributary is not defined well enough for me to actually draw it in on this	2 3 4 5	<ul> <li>A Not on the tributary, but the fence line</li> <li>that came into it.</li> <li>Q Okay. And then you also through your</li> <li>response to EPA's Clean Water Act request acknowledged</li> </ul>
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	Page 507	Page 509
1	(Counsel confer.)	1 have them determine whether or not wetlands existed
2	BY MR. MUEHLBERGER:	2 within any of those areas that you were cleaning up?
3	Q My co-counsel has just pointed out, when I	3 A No, I did not.
4	asked the question "is that correct", and you said,	4 Q Okay. So, you said repeatedly that you have
5	"No." Just to clarify.	5 had a history of working with NRCS, and Mr. McAfee
6	When I asked "is that correct", are you	6 showed you the image of the wetland determination that
7	agreeing with that statement?	7 was eventually made on your property, and that's Agency
8	A What was the statement?	8 Exhibit 11, page 6.
9	Q The statement was during the time period	9 Had you ever seen a document like this
10	that you tilled through and planted and cultivated the	10 before?
11	crops, there would not have been a defined channel in	11 A Prior to?
12	that lower portion at that time, correct?	12 Q Right, prior to getting it for this portion
13	A There was not a defined channel.	13 of your property, had you ever seen a wetland
14	Q Okay. There was not a defined channel	14 determination from NRCS before?
15	because you plowed through the tributary and planted	15 A Not like this.
16	it, correct?	16 Q Okay. Had you seen any wetland
17	A I planted it.	17 determination before?
18	Q Okay, thank you.	18 A Yes.
19	MR. MUEHLBERGER: I'm now showing the	19 Q Okay. Had you received wetland
20	Respondent Agency Exhibit 8, page 1 of 1.	20 determinations on any portions of your property or
21	BY MR. MUEHLBERGER:	21 previous properties you owned before this?
22	Q In the document you say, and I'm quoting	22 A Yes.
23	here, "All of this is groundwater coming down to the	23 Q Okay.
24	property." Is that correct?	24 MR. MUEHLBERGER: I'm going to have you zoom
25	A Whereabouts am I saying that?	25 in a little bit on that one.
2.5	A whereabouts and saying that?	2.5 In a nucle on on that one.
	Page 508	Page 510
	2	
1	Q Let's see. Okay, it starts with	1 BY MR. MUEHLBERGER:
1 2	_	
	Q Let's see. Okay, it starts with	1 BY MR. MUEHLBERGER:
2	Q Let's see. Okay, it starts with "Therefore	<ol> <li>BY MR. MUEHLBERGER:</li> <li>Q So, could you read here there's a little</li> </ol>
2 3	Q Let's see. Okay, it starts with "Therefore A Okay.	<ol> <li>BY MR. MUEHLBERGER:</li> <li>Q So, could you read here there's a little</li> <li>box that says "Remarks" and then it begins with, "Other</li> </ol>
2 3 4	<ul> <li>Q Let's see. Okay, it starts with</li> <li>"Therefore</li> <li>A Okay.</li> <li>Q all of this is from groundwater coming</li> </ul>	<ol> <li>BY MR. MUEHLBERGER:</li> <li>Q So, could you read here there's a little</li> <li>box that says "Remarks" and then it begins with, "Other</li> <li>waters of the U.S." Could you read what that says</li> </ol>
2 3 4 5	<ul> <li>Q Let's see. Okay, it starts with</li> <li>"Therefore</li> <li>A Okay.</li> <li>Q all of this is from groundwater coming</li> <li>down to this property." Is that correct?</li> </ul>	<ol> <li>BY MR. MUEHLBERGER:</li> <li>Q So, could you read here there's a little</li> <li>box that says "Remarks" and then it begins with, "Other</li> <li>waters of the U.S." Could you read what that says</li> <li>there, please?</li> </ol>
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	Page 511	Page 513
1	exactly did you cover it up with?	1 A That's correct.
2	A What do you mean covered it up with?	2 Q And did you contact the Corps of Engineers
3	Q What did you push into the channel?	3 at that time?
4	A Dirt.	4 A No.
5	Q Okay. All right, thanks.	5 Q Okay. And I understand that you had asked
6	So, in this whole discussion about all the	6 the NRCS in 2011 to make a wetland determination and
7	various tiles that were placed on your property, you	7 you didn't get that until after the work, but did you
8	had talked about how tiles could be used to lower the	8 contact NRCS right before you cleared that vegetation
9	groundwater table, is that correct?	9 in the upper part of the tributary?
10	A That's correct.	10 A No.
11	Q Okay. But tiles can also be used to divert	11 Q Okay. One thing I wanted to make clear, you
12	surface flow, correct?	12 said that you had talked to somebody from the county
13	A Correct.	13 because the county owned the property where you put in
14	Q Okay. You talked about how you had spoken	14 the inlet tiles. Is that correct?
15	with NRCS and you specifically identified Regina Leer;	15 A Near where I put in the inlet tiles, yes,
16	that she told you that it was okay to go ahead and tile	16 the county owns above me.
17	the tributary. Is that correct?	17 Q Okay. And one thing that I wasn't clear
18	A That's not exactly how I put it.	18 about is did the county give you permission to go ahead
19	Q Okay.	19 and put in these tiles at that location?
20	A I had discussed at an earlier time with her	20 A Yes.
21	about doing what I was doing. She said it would be all	21 Q Okay. Did you receive anything in writing
22	right, just make sure that you have enough capacity.	authorizing you to put in those tiles in that location?
23	Q Okay.	23 A No.
24	A This was an early plan at that time.	24 Q Okay. So, you don't have anything in
25	Q Okay. So, NRCS didn't really give you	25 writing to authorize the tiling work and the fill work
	Page 512	Page 514
	1490 312	
1	permission to do this formally, correct?	1 from NRCS, the Corps of Engineers, or the county,
1 2	permission to do this formally, correct? A What do you mean by formally?	<ol> <li>from NRCS, the Corps of Engineers, or the county,</li> <li>correct?</li> </ol>
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	Page 515	Page 5	17
1	that says on that sentence, please?	1 resolve that.	
2	A "He stated he asked NRCS previously if the	2 Q Okay. Is it safe to say that you made more	
3	gully could be closed as the DNR required and limit it	3 money off of selling the property to MCM Pork than	it
4	in order to put in the hog building, and the	4 would have cost in order to complete the mitigation of	
5	percolation was okay."	5 restoration requirements?	
6	Q Okay.	6 A Would you rephrase that?	
7	A "He would be interested in mitigation and	7 Q Sure. So, you sold a portion of your	
8	intends to put instructions on the label CW by shaping	8 property to MCM Pork, correct?	
9	and putting in the waterway."	9 A That's correct.	
10	Q Right. Okay. So, at this hearing you	10 Q Okay. And to date you still have not done	
11	according to the NRCS document you testified that you	11 the restoration or mitigation work required by NRCS	
12	had closed in the gully, and we're referring to the	12 correct?	,
13	tributary here, correct?	13 A That's correct.	
14	A Um-hmm.	14 Q Is it safe to say that the money you made	
15	Q Because of the DNR setback regulations, is	15 from selling the property to MCM Pork was more that	an
16	that correct?	16 what you would have to have paid to restore or mitig	
17	A That is not the total reason I filled it in,	17 the converted wetlands?	acc
18	no.	18     A     It's not safe to say that from the	
19		19 information I was told.	
20	Q Okay. But did you testify to that at this particular hearing?	20 Q Okay. When you looked into how much it	
21	A That that was the sole reason of doing it,	8	
22		····· ) - ·· ···· · · · · · · · · · · ·	
23	Q Did you testify at the hearing that that was		
24	a partial reason why you closed up the tributary?	Q Okay. And so I could ask the question. How	
25	A By the way the letter reads, I would say it	25 much money did you make from selling your propert	ty to
	Page 516	Page 5	1.8
	Idge 010		10
1	is.	1 MCM Pork?	10
1 2		_	10
	is.	1 MCM Pork?	
2	is. Q Okay. So, you know, we get a person from	1 MCM Pork? 2 A I sold the land for 12,000, and 28,000 was	
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2 3 4 5	is. Q Okay. So, you know, we get a person from the Corps of Engineers and some folks from NRCS, they both have it on their records that at some point you talked to them about closing the gully because of Iowa	<ol> <li>MCM Pork?</li> <li>A I sold the land for 12,000, and 28,000 was</li> <li>paid to Morrow Construction for cleaning up the site</li> <li>upon it. I said clean up the site, the building, the</li> <li>old foundations, I rock piles, and stuff like that.</li> </ol>	
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	Page 519		Page 521
1	Q Okay. But, you know, I'm just saying for	1	that's kind of when their lease ends, so they can't
2	purposes of protecting the tributary which you said was	2	give it up 'til then.
3	a goal of yours, you know, did you ever check with an	3	JUDGE BIRO: And you didn't purchase it
4	expert in that area prior to tiling or filling it in?	4	subject to lease?
5	A I I feel, yes, I did because I put a lot	5	THE WITNESS: Pardon.
6	of trust in the NRCS. Us as farmers, that's who are	6	JUDGE BIRO: You didn't purchase it subject
7	experts are is the NRCS, the FSA offices. I and a lot	7	to it being leased.
8	of farmers put a lot of trust in them to lead us down	8	THE WITNESS: No.
9	the right trail. So, I thought I was talking to the	9	JUDGE BIRO: Okay. And how much did you pay
10	experts that I needed to talk to.	10	for the property in 2008?
11	Q Right. But you never got a formal approval	11	THE WITNESS: I'm going to say \$400,000,
12	from the NRCS to go ahead and do that work.	12	approximately. That's just an approximate number. I
13	A I felt I did because I had the wetland form	13	don't know the exact, right.
14	with no wetlands on it, and I had talked to them in	14	JUDGE BIRO: Okay. And you purchased it in
15	previous years. So, I have other files on their in	15	the name of the LLC?
16	their office today to do other work that's already been	16	THE WITNESS: Yes.
17	discussed two-three years ago.	17	JUDGE BIRO: Okay. And have you and your
18	Q Okay. Are you yourself an expert in stream	18	wife been the only owners of the LLC?
19	ecology	19	THE WITNESS: Yes.
20	A No.	20	JUDGE BIRO: And I think you indicated that
21	Q or stream morphology?	21	your parents owned the property to the east
22	A No.	22	THE WITNESS: Yes.
23	MR. MUEHLBERGER: Thank you, Mr. Morrow. No	23	JUDGE BIRO: of yours, is that correct?
24	further questions.	24	THE WITNESS: Yes.
25	MR. McAFEE: I don't have any further	25	JUDGE BIRO: Okay. And what's the boundary
	Page 520		Page 522
1	questions.	1	between your property and theirs? Is there
2	questions. JUDGE BIRO: Okay. I have further	2	between your property and theirs? Is there THE WITNESS: Today?
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	Page 523		Page 525
1	JUDGE BIRO: Well.	1	NRCS.
2		2	
2	THE WITNESS: Or my mother's now. JUDGE BIRO: Are you the only child?	3	JUDGE BIRO: And you then added that to your farmland and you started farming on that property or
4	THE WITNESS: Oh, no. I have three other	4	you were
5		5	2
	siblings.	6	THE WITNESS: Yeah, I was already farming
6 7	JUDGE BIRO: Okay. What crops were growing there when you bought the property? What crops were		that portion.
8	growing there when you bought the property? what crops were	8	JUDGE BIRO: You were already farming. THE WITNESS: Yeah.
° 9	THE WITNESS: Corn and beans, soybeans.	9	
10	JUDGE BIRO: And did you continue growing	10	JUDGE BIRO: Okay. Did you tile it the same
11	those crops?	11	way as you tiled in this case? THE WITNESS: Yes.
12	THE WITNESS: Yes.	12	JUDGE BIRO: Okay. Then I think you said
13	JUDGE BIRO: Okay. Did you increase the	13	you tiled again another year. Was it the next year,
14	size of the area where those crops were growing?	14	2009?
14	THE WITNESS: Yes.	15	THE WITNESS: That's what we did
16	JUDGE BIRO: Okay. So, how many acres of	16	JUDGE BIRO: Okay.
17	corn and soybeans were there when you bought the	17	THE WITNESS: in the area on the
18	property?	18	photograph we had.
19	THE WITNESS: I'm going to say, and this is	19	JUDGE BIRO: Okay. Where we saw all the
20	again, an approximate, 85, 85 to 90.	20	very lines
20	JUDGE BIRO: And when you first did your	21	THE WITNESS: Yes.
22	first tiling on the property, was that 2009?	22	JUDGE BIRO: squiggly lines all across?
23	THE WITNESS: The fall of 2008.	23	Okay.
24	JUDGE BIRO: Okay.	24	And how many acres did you tile at that
25	THE WITNESS: But it wasn't on the area that	25	time?
20			
	Page 524		Page 526
1		1	
1 2	Page 524 we're talking about. JUDGE BIRO: I understand.	1 2	THE WITNESS: Approximately 35 acres,
	we're talking about.		THE WITNESS: Approximately 35 acres, because we did some also from where we're talking to
2	we're talking about. JUDGE BIRO: I understand.	2	THE WITNESS: Approximately 35 acres,
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	Page 527		Page 529
1	THE WITNESS: Yes.	1	THE WITNESS: Yeah, to Steven Johnson.
2	JUDGE BIRO: Okay. And in 2015, you had	2	JUDGE BIRO: And what triggered your
3	additional tiling done through the tributary, and I	3	decision to make such a request for a wetlands
4	want to go over this fairly carefully. Before you did	4	determination?
5	that tiling, you said that you had had a discussion	5	THE WITNESS: I had requested other small
6	with someone at the NRCS	6	ones for certain projects, and at that time, I made a
7	THE WITNESS: Um-hmm.	7	comment, I says instead of doing it for small projects,
8	JUDGE BIRO: about the possibility of	8	let's just have a determination done of the whole farm.
9	tiling that area.	9	JUDGE BIRO: So you had gotten some wetlands
10	THE WITNESS: Yes.	10	determinations for other areas
11	JUDGE BIRO: And when exactly was that	11	THE WITNESS: Yes.
12	conversation?	12	JUDGE BIRO: on your farm?
13	THE WITNESS: When?	13	THE WITNESS: Yes.
14	JUDGE BIRO: When.	14	JUDGE BIRO: So what areas had you
15	THE WITNESS: The first time was in fall of	15	previously gotten a wetlands determination?
16	2009. I had had that conversation once or twice after	16	THE WITNESS: I already had them for
17	that, and I don't know exactly, and the reason I know	17	everything east of Deep Creek.
18	of 2009 because I had that conversation at the same	18	JUDGE BIRO: Okay.
19	time that I did the tiling that we've seen in the	19	THE WITNESS: I had them for the area
20	diagram. But as far as the other ones, I can't give	20	directly south, that hillside in an area south of the
21	you an exact date.	21	tributary. I had them for everything I felt the
22	JUDGE BIRO: Okay. And the NRCS person that	22	tributary because everything to the north of the
23	you spoke to about this, what was her name?	23	tributary I had already had them on. The only place I
24	THE WITNESS: Regina Leer.	24	really needed them on was for an area clear to the
25	JUDGE BIRO: Leer, okay. Was she the same	25	south of the tributary on the west side of Deep Creek
			5 5 6 9
1	Page 528	1	Page 530
1	person you spoke to in subsequent years?	1	and north of the English River.
2	person you spoke to in subsequent years? THE WITNESS: Yes.	2	and north of the English River. JUDGE BIRO: Okay. So, this tributary flows
2 3	person you spoke to in subsequent years? THE WITNESS: Yes. JUDGE BIRO: Okay. So, you believe you had	2 3	and north of the English River. JUDGE BIRO: Okay. So, this tributary flows into Deep Creek, Deep Creek flows into the English
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	Page 531		Page 533
1		1	
2	JUDGE BIRO: The English River? THE WITNESS: Yeah.	2	JUDGE BIRO: \$4,500 for tiles, and eight to ten thousand dollars for the
3	JUDGE BIRO: Okay. And how about the Deep	3	THE WITNESS: Well, that's just for the six-
4	Creek?	4	inch tile.
5	THE WITNESS: Most of the time. I have seen	5	JUDGE BIRO: Oh, for the six-inch tile.
6		6	THE WITNESS: Yeah. In evidence, there is
7	it, in my time I have seen it actually dry twice. JUDGE BIRO: And when was that?	7	invoice for the 18-inch.
8	THE WITNESS: 1988, and it's been within the	8	JUDGE BIRO: Okay. And then another eight
9	last 10-12 years here, whenever we had that drought	9	to ten thousand to have it installed.
10		10	THE WITNESS: Um-hmm.
11	year. JUDGE BIRO: Just at times of severe	11	JUDGE BIRO: And then after that, the only
12	drought?	12	work left to do was work you did yourself.
13	THE WITNESS: Yup.	13	THE WITNESS: I hired him to come back in
14	JUDGE BIRO: Were those also the times when	14	for a day and not just there, I had some other work
15	maybe you saw the tributary dry, the same kind of	15	around there, but shape everything up so I could work
16	THE WITNESS: Oh, it was dry at the same	16	it down and seed the waterway and farm it.
17	time plus some other times. It was dry. I mean, those	17	JUDGE BIRO: Okay. And what's a day of
18	are the only two times I have ever seen Deep Creek dry,	18	labor for that?
19	but I'd seen the tributary dry quite often.	19	THE WITNESS: Probably about 2,000.
20	JUDGE BIRO: Okay. In terms of the tiling	20	JUDGE BIRO: Okay.
21	you said you hired a company to do the tiling.	21	THE WITNESS: And like I say, these are just
22	THE WITNESS: Um-hmm.	22	approximates. I don't know the exact amounts.
23	JUDGE BIRO: How much did you pay the	23	JUDGE BIRO: Once you tiled essentially all
24	company?	24	of your farmland, how much do you think it increased in
25	THE WITNESS: Right offhand, I don't know.	25	value?
	»,»,»,»,		
	Page 532		Page 534
1	Page 532 I'm not sure. I'm going to say probably eight to ten	1	Page 534 THE WITNESS: That's hard to say because
1 2	_	1	-
	I'm not sure. I'm going to say probably eight to ten	1	THE WITNESS: That's hard to say because
2	I'm not sure. I'm going to say probably eight to ten thousand dollars.	2	THE WITNESS: That's hard to say because farm farm ground has fluctuated so much in the past
2 3	I'm not sure. I'm going to say probably eight to ten thousand dollars. JUDGE BIRO: And did that	2 3	THE WITNESS: That's hard to say because farm farm ground has fluctuated so much in the past three to five years.
2 3 4	I'm not sure. I'm going to say probably eight to ten thousand dollars. JUDGE BIRO: And did that THE WITNESS: It might have been it might	2 3 4	THE WITNESS: That's hard to say because farm farm ground has fluctuated so much in the past three to five years. JUDGE BIRO: Well, I'm basing that on the
2 3 4 5	I'm not sure. I'm going to say probably eight to ten thousand dollars. JUDGE BIRO: And did that THE WITNESS: It might have been it might have been more.	2 3 4 5	THE WITNESS: That's hard to say because farm farm ground has fluctuated so much in the past three to five years. JUDGE BIRO: Well, I'm basing that on the fact you said that when you tile THE WITNESS: Tile. I'm going to say probably increased it the tile itself, probably 20
2 3 4 5 6	I'm not sure. I'm going to say probably eight to ten thousand dollars. JUDGE BIRO: And did that THE WITNESS: It might have been it might have been more. JUDGE BIRO: Did that cover the buying	2 3 4 5 6	THE WITNESS: That's hard to say because farm farm ground has fluctuated so much in the past three to five years. JUDGE BIRO: Well, I'm basing that on the fact you said that when you tile THE WITNESS: Tile. I'm going to say
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1	JUDGE BIRO: So it just makes it much more	1	JUDGE BIRO: Okay. I'm a little confused as
2	valuable farmland.	2	to why it would cost so much to take out the tile when
3	THE WITNESS: Yes, environmentally and	3	it only costs about 15,000 to put it in.
4	economically.	4	THE WITNESS: Now, when you say "cost so
5	JUDGE BIRO: Tell me about the application	5	much to take it out".
6	of manure on farmland. I take it that these soybeans	6	JUDGE BIRO: Right.
7	and corn are not for human consumption?	7	THE WITNESS: To mitigate?
8	THE WITNESS: Yeah. It can be, yes.	8	JUDGE BIRO: Yes, to mitigate. You said it
9	JUDGE BIRO: Even when you apply this manure	9	was going to cost forty to fifty thousand.
10	to it?	10	THE WITNESS: The mitigation that I checked
11	THE WITNESS: Oh, yeah. Yes. Manure is an	11	into was through the NRCS office, and where they
12	organic fertilizer. As a matter of fact, organic	12	directed me, that's that's where I got the price.
13	farmers, that's one of the only things they can use,	13	JUDGE BIRO: Oh, so you weren't intending to
14	it's one of the products they can use. Because it's	14	take out the tile. You were going to buy wetlands
15	organic, it breaks down into it, but it's pumped out	15	credit somewhere else.
16	and put on a farm with a toolbar and tractor with a	16	THE WITNESS: Right.
17	pipe hooked to it that's pumping it to this and	17	JUDGE BIRO: Okay.
18	injecting it into the ground.	18	THE WITNESS: Yes. That's one of the things
19	JUDGE BIRO: Okay. So, are you now an	19	that I'm working with them now is trying to find a
20	organic farmer?	20	solution to it.
21	THE WITNESS: No, because you've got to be	21	JUDGE BIRO: So, is it my understanding you
22	certified.	22	can't take out the tiles because if you did, then they
23	JUDGE BIRO: Certified.	23	couldn't operate their hog farm on your property, on
24	THE WITNESS: If you're organic, you cannot	24	what used to be your property?
25	spray with herbicides and insecticides.	25	THE WITNESS: Right.
	Page 536		Page 538
1		1	_
1 2	JUDGE BIRO: Oh.	1 2	JUDGE BIRO: Right. So, you're, in essence,
			_
2	JUDGE BIRO: Oh. THE WITNESS: I mean, it's got to be all	2	JUDGE BIRO: Right. So, you're, in essence, between a rock and a hard place, right?
2 3	JUDGE BIRO: Oh. THE WITNESS: I mean, it's got to be all organic.	2 3	JUDGE BIRO: Right. So, you're, in essence, between a rock and a hard place, right? THE WITNESS: Um-hmm.
2 3 4	JUDGE BIRO: Oh. THE WITNESS: I mean, it's got to be all organic. JUDGE BIRO: So, do you use herbicides and	2 3 4	JUDGE BIRO: Right. So, you're, in essence, between a rock and a hard place, right? THE WITNESS: Um-hmm. JUDGE BIRO: Is that what the situation is?
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	Page 539		Page 541
1	THE WITNESS: I had nothing to do with any	1	did you make with MCM Pork regarding applying the
2	of the building. All I did is sold them the land.	2	manure? Would they continue to provide it to you for
3	JUDGE BIRO: Okay. And did you make any	3	free indefinitely as long as they operated the hog farm
4	representations about being able to use it for hog	4	there?
5	containment?	5	THE WITNESS: We have a I believe it's a
6	THE WITNESS: Pardon?	6	10-year contract.
7	JUDGE BIRO: As part of your sale	7	JUDGE BIRO: Is that separate from your sale
8	THE WITNESS: Yeah.	8	with them?
9	JUDGE BIRO: did you make any	9	THE WITNESS: Yes.
10	representations that they could use the property for a	10	JUDGE BIRO: Okay. So, you have a 10-year
11	hog containment area?	11	contract.
12	THE WITNESS: I didn't make that as a	12	THE WITNESS: Yeah. I don't know what they
13	representation, no. That was their purpose of buying	13	call it, a continuous 10-year contract where it's 10
14	it, though.	14	years. One year goes off this end and then another
15	JUDGE BIRO: Okay. So, if it turns out that	15	year is added to the other end.
16	you take out the tiles and they are no longer more than	16	JUDGE BIRO: Okay.
17	500 feet from a waterway, is there any compensation	17	THE WITNESS: So it's a it's a continuous
18	you're going to owe MCM Pork?	18	10-year contract.
19	THE WITNESS: I don't know. I can't I	19	JUDGE BIRO: And they agree under that
20	can't answer that. You're talking about taking the	20	contract to give you the manure for free.
21	tile. I thought you meant taking out the tile	21	THE WITNESS: Yeah, they
22	someplace for a wetland, but you're talking about	22	JUDGE BIRO: And what do you promise them on
23	taking the tile out of the	23	the other end of the contract?
24	JUDGE BIRO: Out of the tributary.	24	THE WITNESS: I've got to take the manure.
25	THE WITNESS: Yeah.	25	JUDGE BIRO: Oh, you have to take it.
	Page 540		Page 542
1	JUDGE BIRO: Yes, if you take them out, and	1	THE WITNESS: Well, for the most part. They
2	let's say it makes it so that the hogs the hog	2	need that manure out of that building every year.
3	containment area can no longer operate there because	3	JUDGE BIRO: Okay.
4	they're not 500 feet, have you breached your contract	4	THE WITNESS: To run under to run under
5	with them?	5	the regulations.
6	THE WITNESS: I can't I can't say. I	6	JUDGE BIRO: So, do you apply that manure to
7	don't know.	7	any other farms or sell it?
8	JUDGE BIRO: Okay. So when, you know, I	8	THE WITNESS: No. My parents' farm we apply
9	suggested you're between a rock and hard place, it's	9	it to also.
10	because you would no longer be entitled to get the	10	JUDGE BIRO: Okay. Is there any other farms
11	manure for free?	11	you apply it to?
12	THE WITNESS: Yeah.	12	THE WITNESS: Not at this time, no.
13	JUDGE BIRO: Is that your economic loss	13	JUDGE BIRO: Okay. So, they are also saving
14	THE WITNESS: Yeah.	14	about \$10 - \$12,000 a year?
15	JUDGE BIRO: if you take out the tile?	15	THE WITNESS: No, that's that's total.
16	THE WITNESS: Yeah.	16	JUDGE BIRO: Oh, between
17	JUDGE BIRO: Okay. And how much does that	17	THE WITNESS: Between, yeah, whoever gets it
18	save you, getting the manure?	18	that year. We may split it. We have split it before
19	THE WITNESS: That varies. It's not as	19	but that's that's a total.
20	aget serving to device it was two years ago on three	20	ILIDCE DIDO. For both you and your nonents!

20

21

22

23

24

25

cost-saving today as it was two years ago or three

right now, but I'm going to say probably -- probably

this year \$10 - \$12,000 because I -- because I do have

to pay for the application of it.

years ago because of where we're at in farm commodities

JUDGE BIRO: Right. So, what arrangement

20 JUDGE BIRO: For both you and your parents' 21 farm? 22

THE WITNESS: Yeah. Yup. JUDGE BIRO: Because otherwise, did you buy

fertilizer together?

23

24 25 THE WITNESS: Well, if you don't put that

	Page 543		Page 545
1	on, you have to buy commercial fertilizer.	1	acres, you said you could get in another 20 rows?
2	JUDGE BIRO: Okay. And did you used to	2	THE WITNESS: No, that's when we cleaned the
3	split that also with your parents?	3	trees along the fencerow.
4	THE WITNESS: No.	4	JUDGE BIRO: Oh. So, what do you get out of
5	JUDGE BIRO: Oh, so how much did that cost	5	tiling over 1.3 acres in terms of additional farmland?
6	you?	6	THE WITNESS: Not so much more farmland, but
7	THE WITNESS: Last year.	7	farmability, protecting the land I have by by
8	JUDGE BIRO: When you used regular	8	catching the residue, the corn stalks and the bean
9	fertilizer instead of manure.	9	stalks on big rains. If there's any washing of top-
10	THE WITNESS: If I put hog manure on, I	10	soils, silt, I catch that, and can take that back.
11	don't need commercial fertilizer.	11	JUDGE BIRO: And re-deposit it on your land.
12	JUDGE BIRO: Right.	12	THE WITNESS: On top of the hill or
13	THE WITNESS: If I don't put it on, then I	13	wherever.
14	need it.	14	JUDGE BIRO: Okay.
15	JUDGE BIRO: And how much does that cost?	15	THE WITNESS: Once it once it washes into
16	THE WITNESS: It would be that additional	16	the creek and goes on down, I mean, it's gone.
17	for one or the other, it's going to be an additional	17	JUDGE BIRO: Okay. So, really it's not
18	\$10 - \$12,000 dollars.	18	having the opportunity to farm on that particular
19	JUDGE BIRO: Just for your farm.	19	sliver of property.
20	THE WITNESS: Yeah.	20	THE WITNESS: No.
21	JUDGE BIRO: Okay. So, if you remove the	21	JUDGE BIRO: Okay, just give me a moment.
22	tiles, let's say from the tributary, basically undid	22	(Pause.)
23	what the government says you should not have done, you	23	What county is your property located in?
24	would have the cost of removing it.	24	THE WITNESS: Iowa County. And when you
25	THE WITNESS: Um-hmm.	25	asked yesterday, it's Lincoln Township.
	Page 544		Page 546
			5
1	JUDGE BIRO: Do you know what that cost	1	JUDGE BIRO: Lincoln Township, Iowa County.
1 2	JUDGE BIRO: Do you know what that cost would be?	1 2	-
	would be? THE WITNESS: No, I don't.		JUDGE BIRO: Lincoln Township, Iowa County.
2	would be? THE WITNESS: No, I don't. JUDGE BIRO: Okay. Is that something you	2	JUDGE BIRO: Lincoln Township, Iowa County. THE WITNESS: County, yes.
2 3	would be? THE WITNESS: No, I don't. JUDGE BIRO: Okay. Is that something you could just do yourself?	2 3	JUDGE BIRO: Lincoln Township, Iowa County. THE WITNESS: County, yes. JUDGE BIRO: Okay.
2 3 4 5 6	would be? THE WITNESS: No, I don't. JUDGE BIRO: Okay. Is that something you could just do yourself? THE WITNESS: No, I don't have the equipment	2 3 4 5 6	JUDGE BIRO: Lincoln Township, Iowa County. THE WITNESS: County, yes. JUDGE BIRO: Okay. THE WITNESS: Lincoln Township is in Iowa County. (Pause.)
2 3 4 5	would be? THE WITNESS: No, I don't. JUDGE BIRO: Okay. Is that something you could just do yourself? THE WITNESS: No, I don't have the equipment to do that.	2 3 4 5	JUDGE BIRO: Lincoln Township, Iowa County. THE WITNESS: County, yes. JUDGE BIRO: Okay. THE WITNESS: Lincoln Township is in Iowa County. (Pause.) JUDGE BIRO: Okay, I don't think I have any
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	Page 547		Page 549
1	A No.	1	are listed as Morrow One site.
2	Q Well, so I guess I don't understand. If you	2	A No, I did not.
3	would lose the benefit from MCM Pork by taking out the	3	MR. MUEHLBERGER: Okay, no further
4	tile, then there must have been some kind of agreement	4	questions.
5	between you and MCM Pork.	5	JUDGE BIRO: Okay, thank you very much, Mr.
6	A I don't know what would happen to the	6	Morrow.
7	building if the tile came out. Your Honor asked me if	7	(Witness excused.)
8	the building closed, I would lose the manure. And,	8	Okay, we're not going to end today.
9	yes, I would.	9	(Laughter.)
10	Q Okay. But if you took out the tiles, then	10	MR. BIERI: I was too ambitious. I'm sorry.
11	you feel that MCM Pork would stop providing you the	11	JUDGE BIRO: I'm good until Friday. Come
12	free manure?	12	Friday, we're done.
13	A No.	13	(Laughter.)
14	Q Okay.	14	I have to go home. So what time would you
15	A Not if the building is up and running, no.	15	like to start tomorrow?
16	Q Okay. So, there's no relationship between	16	MR. BIERI: Can I speak with my cohort here.
17	the distant between the tributary and MCM Pork	17	JUDGE BIRO: Your cohort? Your colleague?
18	A No.	18	MR. BIERI: Colleague.
19	Q is what you're saying.	19	JUDGE BIRO: Yes.
20	A No.	20	MR. BIERI: How long do you think you will
21	Q Okay. You talked a lot about how you've had	21	go on direct? I'm not going to hold you to it. I just
22	a lot of history with NRCS concerning wetland	22	kind of wondered.
23	determinations, correct?	23	MR. MUEHLBERGER: I can't see going more
24	A Um-hmm.	24	than an hour and a half on direct.
25	Q So, you knew that FSA wasn't the agency that	25	MR. BIERI: Okay.
	Page 548		Page 550
	=		Page JJU
1	makes wetland determinations, right?	1	MR. MUEHLBERGER: Let me rephrase that. I
1 2	makes wetland determinations, right? A Not they were until this day, I	1 2	_
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2	A Not they were until this day, I	2	MR. MUEHLBERGER: Let me rephrase that. I estimate I won't go more than an hour and a half.
2 3	A Not they were until this day, I consider them working hand in hand.	2 3	MR. MUEHLBERGER: Let me rephrase that. I estimate I won't go more than an hour and a half. MR. BIERI: Sure, sure, sure. I think if we
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#### REPORTER'S CERTIFICATE

DOCKET NO.:CWA-07-2018-0095CASE TITLE:C&S Enterprise, LLCHEARING DATE:October 3, 2018LOCATION:Des Moines, Iowa

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the United States Environmental Protection Agency, Office of Administrative Law Judges.

Date: October 3, 2018

David W. Jones Official Reporter Heritage Reporting Corporation Suite 206 1220 L Street, N.W. Washington, D.C. 20005-4018

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