

# FINAL SHOWN

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**Murphey, Samuel 01-22-2019**

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**Total Time 00:07:16**



Page/Line	Source	ID
11:16 - 11:19	<p><b>Murphey, Samuel 01-22-2019 (00:00:03)</b>  11:16 Q. Good morning, Mr. Murphey. How are you  11:17 doing?  11:18 A. Good morning. I'm doing fine, thank  11:19 you.</p>	SM2_COMBINED_03.1
12:19 - 12:25	<p><b>Murphey, Samuel 01-22-2019 (00:00:11)</b>  12:19 You understand that you've been  12:20 proffered here as a witness to testify on behalf  12:21 of the Monsanto Corporation, correct?  12:22 A. I do.  12:23 Q. Okay. And you are currently an employee  12:24 of the Monsanto Corporation, right?  12:25 A. Yes, Monsanto, and now Bayer.</p>	SM2_COMBINED_03.2
16:14 - 16:15	<p><b>Murphey, Samuel 01-22-2019 (00:00:08)</b>  16:14 Q. I would like to mark  16:15 Exhibit No. 2 to your deposition.</p>	SM2_COMBINED_03.3
16:19 - 16:21	<p><b>Murphey, Samuel 01-22-2019 (00:00:07)</b>  16:19 Q. And this is what appears to be your  16:20 LinkedIn page, correct, sir?  16:21 A. Yes, that's right.</p>	SM2_COMBINED_03.4 EXHIBIT 768.1.2
22:5 - 22:14	<p><b>Murphey, Samuel 01-22-2019 (00:00:19)</b>  22:5 BY MR. ESFANDIARY:  22:6 Q. All right. If you look back at your  22:7 LinkedIn profile there, your tenure at the  22:8 Monsanto Company, it says, "Direct global media  22:9 relations and advocacy efforts in support of major  22:10 litigation, policy matters, and reputational  22:11 threats, focusing on the herbicide business and  22:12 freedom to operate."  22:13 Do you see that?  22:14 A. I do.</p>	SM2_COMBINED_03.5 EXHIBIT 768.1.3
166:11 - 166:15	<p><b>Murphey, Samuel 01-22-2019 (00:00:15)</b>  166:11 Q. If a Monsanto scientist, such as  166:12 Dr. Farmer, was to tell you that to conduct a full  166:13 carcinogenicity bioassay was to cost 1.5 million  166:14 US dollars, would you -- would you have any reason  166:15 to doubt her judgment on that?</p>	SM2_COMBINED_03.6 elcar
166:18 - 166:22	<p><b>Murphey, Samuel 01-22-2019 (00:00:06)</b>  166:18 THE WITNESS: I -- I don't have any  166:19 frame of reference for what that costs, so, no, I</p>	SM2_COMBINED_03.7

166:20 would -- I would defer to Dr. Farmer.

166:21 Q. You would?

166:22 A. Yes.

167:1 - 167:9

**Murphey, Samuel 01-22-2019 (00:00:22)**

SM2\_COMBINED\_03.8

167:1 THE WITNESS: It is. However, I think  
167:2 the type of assay that you're suggesting, based on  
167:3 my understanding from conversations with  
167:4 Dr. Farmer and others, is not -- is not a required  
167:5 regulatory study.

167:6 BY MR. ESFANDIARY:

167:7 Q. So Monsanto would only do a study to  
167:8 find out the carcinogenicity of its product if  
167:9 it's required?

167:12 - 167:22

**Murphey, Samuel 01-22-2019 (00:00:22)**

SM2\_COMBINED\_03.9

167:12 THE WITNESS: We have no -- again, based  
167:13 on my understanding from conversations with our  
167:14 scientists, we have no evidence suggesting that  
167:15 for -- our formulated products are carcinogenic.  
167:16 And that includes significant epidemiology data  
167:17 that looks at the real world use of those  
167:18 products.

167:19 BY MR. ESFANDIARY:

167:20 Q. Mr. Murphey, Monsanto has never, itself,  
167:21 conducted a two-year carcinogenicity assay on the  
167:22 formulated Roundup product, correct?

167:25 - 168:1

**Murphey, Samuel 01-22-2019 (00:00:01)**

SM2\_COMBINED\_03.10

167:25 THE WITNESS: Yes, that's my  
168:1 understanding.

247:18 - 247:20

**Murphey, Samuel 01-22-2019 (00:00:06)**

SM2\_COMBINED\_03.11

247:18 Q. And glyphosate -- or rather, the  
247:19 Round- -- the formulated Roundup product has never  
247:20 been tested by the EPA, correct?

247:23 - 248:4

**Murphey, Samuel 01-22-2019 (00:00:15)**

SM2\_COMBINED\_03.12

247:23 THE WITNESS: You know, testing has --  
247:24 has been done, and is -- is submitted for their  
247:25 review.

248:1 BY MR. ESFANDIARY:

248:2 Q. Has Monsanto conducted a carcinogenicity  
248:3 test on a formulated Roundup product and submitted  
248:4 it to EPA for review?

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248:7 - 248:22	<p><b>Murphey, Samuel 01-22-2019 (00:00:42)</b>  248:7 THE WITNESS: No. No, it's a variety of  248:8 different tests that are conducted on formulated  248:9 products. But again, we do have long-term  248:10 epidemiological data that showed no connection  248:11 between the use of those products and cancer.  248:12 BY MR. ESFANDIARY:  248:13 Q. Okay. And can you tell me also, what  248:14 these other examinations of the formulation are,  248:15 that you contend EPA has reviewed?  248:16 A. My -- my understanding is, on the  248:17 formulated -- the formulated products, we do a  248:18 variety of -- a variety of tests that look at the  248:19 likely exposures from the use of those products.  248:20 So things exactly like Dr. Goldstein is  248:21 talking about, eye and skin irritation, things of  248:22 that nature.</p>	SM2_COMBINED_03_13
249:13 - 249:16	<p><b>Murphey, Samuel 01-22-2019 (00:00:09)</b>  249:13 Q. So in order to fully understand  249:14 the -- the risks associated with its product, why  249:15 would Monsanto not want to conduct a long-term  249:16 cancer bioassay on a formulated product?</p>	SM2_COMBINED_03_14
249:19 - 250:4	<p><b>Murphey, Samuel 01-22-2019 (00:00:23)</b>  249:19 THE WITNESS: My understanding is that  249:20 different types of tests are done for various  249:21 reasons on the active substance versus formulated  249:22 products.  249:23 And those -- the reasons that those  249:24 different tests are conducted are established by  249:25 the regulators, whose job it is to ensure the safe  250:1 use of our products.  250:2 BY MR. ESFANDIARY:  250:3 Q. Why would Monsanto not want to  250:4 independently do those tests themselves?</p>	SM2_COMBINED_03_15
250:8 - 250:17	<p><b>Murphey, Samuel 01-22-2019 (00:00:28)</b>  250:8 THE WITNESS: My understanding is we  250:9 do -- we do the testing that is required on a --  250:10 on the basis of the science, the tests that are  250:11 required by the regulatory authorities. You know,  250:12 as -- as with regard to the long-term animal</p>	SM2_COMBINED_03_16

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250:19 - 250:24	<p>250:13 carcinogenicity tests, my understanding is that  250:14 those are more appropriate for the active  250:15 ingredient. And there's other testing that's more  250:16 appropriate for the type of exposure that occurs  250:17 with the formulated product.</p> <p><b>Murphey, Samuel 01-22-2019 (00:00:13)</b></p> <p>250:19 Q. You agree with me that, even if you're  250:20 not required by the law to test the formulated  250:21 Roundup product for carcinogenicity, it would be  250:22 prudent to do so, in order to ensure that the  250:23 consumers are being exposed to a non-cancerous  250:24 product?</p>	SM2_COMBINED_03.17
252:14 - 252:24	<p><b>Murphey, Samuel 01-22-2019 (00:00:22)</b></p> <p>252:14 THE WITNESS: My understanding is that  252:15 the appropriate testing is done on the formulated  252:16 product and on the active ingredient. I don't  252:17 have the scientific expertise to speak to whether  252:18 an additional type of testing would be prudent.  252:19 BY MR. ESFANDIARY:</p> <p>252:20 Q. You keep saying the appropriate testing  252:21 is done on the formulated product. What do you  252:22 mean by the appropriate testing? Has -- has  252:23 Monsanto done a cancer test on the formulated  252:24 product?</p>	SM2_COMBINED_03.18
253:1 - 253:9	<p><b>Murphey, Samuel 01-22-2019 (00:00:18)</b></p> <p>253:1 THE WITNESS: My understanding is we  253:2 have not done the two-year, long-term animal  253:3 studies that you -- you continue to ask about.  253:4 But we do a variety of other -- other tests that  253:5 look at the relevant exposures to the formulated  253:6 product.  253:7 BY MR. ESFANDIARY:</p> <p>253:8 Q. Right. And none of those other tests  253:9 have anything to do with cancer, correct?</p>	SM2_COMBINED_03.19
253:11 - 253:14	<p><b>Murphey, Samuel 01-22-2019 (00:00:07)</b></p> <p>253:11 THE WITNESS: My understanding is they  253:12 have to do with short-term and subchronic  253:13 exposures. They would not be -- they would not be  253:14 long-term animal studies.</p>	SM2_COMBINED_03.20
379:8 - 380:7	<p><b>Murphey, Samuel 01-22-2019 (00:01:01)</b></p>	SM2_COMBINED_03.21

379:8 Q. Now, am I correct, Mr. Murphey, that  
379:9 you're not a scientist?

379:10 A. That's correct.

379:11 Q. But in connection with your -- your work  
379:12 on glyphosate, have you interacted with  
379:13 scientists?

379:14 A. Yes, I have frequently.

379:15 Q. And do you rely on those scientists to  
379:16 provide information to you about the safety and  
379:17 benefits of the products, so you can communicate  
379:18 about it?

379:19 A. Yes, I do.

379:20 Q. And have you formed your own view of the  
379:21 safety of Roundup, based on those discussions?

379:22 A. I have.

379:23 Q. What is that view?

379:24 A. Based on the conversations that I've had  
379:25 with a number of Monsanto scientists about the  
380:1 data, I am very confident that glyphosate, and  
380:2 glyphosate-based products, are safe for use. I'm  
380:3 also confident that they are not carcinogenic.  
380:4 But I also believe very much that these are  
380:5 products that are extremely valuable for our  
380:6 farmer customers and other users around the  
380:7 world.

391:10 - 392:11

**Murphey, Samuel 01-22-2019 (00:01:08)**

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391:10 Q. Now, you were asked some questions about  
391:11 why Monsanto did not perform a two-year cancer  
391:12 study in rats of its formulated product.

391:13 Do you remember those questions?

391:14 A. I do.

391:15 Q. And would you defer to Monsanto's  
391:16 scientists and others to answer that sort of  
391:17 question?

391:18 A. I would have to, yes.

391:19 Q. Are you aware, generally, however, of a  
391:20 study called the AHS, or Agricultural Health  
391:21 Study?

391:22 A. I am.

391:23 Q. What, in general, is that study?

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391:24 A. So my understanding of the U.S.  
391:25 Agricultural Health Study is that it is a very  
392:1 large-scale epidemiology study that looked into  
392:2 the real world use of pesticide products by  
392:3 pesticide applicators in the U.S., and looked for  
392:4 connections between pesticide use and specific  
392:5 health conditions.  
392:6 Q. And so to your knowledge, was that a  
392:7 study of exposure to the formulated product and  
392:8 people in the real world?  
392:9 A. Yes, that would be a study that looked  
392:10 at the real world use of -- of formulated  
392:11 products.

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**Total Time = 00:07:16**

**Documents Shown**  
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