

SOAH DOCKET NO. 582-14-3597
TCEQ DOCKET NO. 2012-0302-MSW

APPLICATION BY PINTAIL) BEFORE THE STATE OFFICE
LANDFILL, LLC FOR NEW) OF
MUNICIPAL SOLID WASTE)
PERMIT NO. 2377) ADMINISTRATIVE HEARINGS

ORAL DEPOSITION OF
STEFAN STAMOULIS
December 15, 2014
Volume 1

ORAL DEPOSITION OF STEFAN STAMOULIS, Volume 1,
produced as a witness at the instance of City of
Hempstead, and duly sworn, was taken in the above-styled
and numbered cause on the 15th of December, 2014, from
11:06 a.m. to 4:04 p.m., before Julie A. Jordan, CSR,
RPR, in and for the State of Texas, reported by machine
shorthand, at the law offices of Kelly Hart & Hallman
LLP, 301 Congress Avenue, Suite 2000, Austin, Texas
78701, pursuant to the Texas Rules of Civil Procedure
and any provisions stated on the record or attached
hereto.

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2	<p>1 APPEARANCES</p> <p>2</p> <p>3 FOR THE CITY OF HEMPSTEAD:</p> <p>4 Ms. Monica M. Jacobs Ms. Diana L. Nichols</p> <p>5 KELLY HART & HALLMAN LLP 301 Congress Avenue Suite 2000 Austin, Texas 78701 (512) 495-6400 (512) 495-6605 (Fax) E-MAIL: monica.jacobs@kellyhart.com and diana.nichols@kellyhart.com</p> <p>9 FOR PINTAIL LANDFILL, LLC:</p> <p>10 Mr. Brent W. Ryan McELROY, SULLIVAN, MILLER, WEBER & OLMSTEAD, L.L.P. 1201 Spyglass Drive, Suite 200 (78746) P.O. Box 12127 Austin, Texas 78711 (512) 327-8111 (512) 327-6566 (Fax) E-MAIL: bryan@msmtx.com</p> <p>15 FOR THE CITIZENS AGAINST THE LANDFILL IN HEMPSTEAD:</p> <p>16 Mr. Michael L. Woodward Mr. Wesley P. McGuffey 17 HANCE SCARBOROUGH, LLP 400 West 15th Street Suite 950 Austin, Texas 78701 (512) 479-8888 (512) 482-6891 E-MAIL: mwoodward@hslawmail.com and wmcguffey@hslawmail.com</p> <p>21 ALSO PRESENT:</p> <p>22 Dr. Philip C. Bennett</p> <p>23 24 25</p>	4
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3	<p>1 STEFAN STAMOULIS,</p> <p>2 having been first duly sworn, testified as follows:</p> <p>3 EXAMINATION</p> <p>4 BY MS. JACOBS:</p> <p>5 Q. Mr. Stamoulis --</p> <p>6 A. Stefan is fine.</p> <p>7 Q. Stefan. Thank you so much. You can call me</p> <p>8 Monica. My name is Monica Jacobs. I represent the</p> <p>9 City of Hempstead.</p> <p>10 A. Okay.</p> <p>11 Q. Are you familiar with the process that you are</p> <p>12 now a part of, and by that I mean the contested case</p> <p>13 hearing regarding Pintail's landfill application?</p> <p>14 A. Somewhat, yeah.</p> <p>15 Q. Okay.</p> <p>16 A. I mean, yeah. I mean, I -- yeah.</p> <p>17 Q. And have you taken your deposition before?</p> <p>18 A. No.</p> <p>19 Q. Okay. So let me tell you, this is -- some</p> <p>20 people do it differently, but the way that I will do</p> <p>21 this is, as we discussed before, if at any point you</p> <p>22 need to take a break for any reason, you just let me</p> <p>23 know.</p> <p>24 A. (Indicating.)</p> <p>25 Q. If I say anything that is confusing to you in</p>	5

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6	<p>1 any way or you want me to clarify something, define</p> <p>2 something, stop me and let me know.</p> <p>3 A. Yes, ma'am.</p> <p>4 Q. Okay. And these are the sum total of the</p> <p>5 documents that you brought with you today?</p> <p>6 A. Sum total.</p> <p>7 Q. Okay. Great. And I'm going to hand you a</p> <p>8 copy of the notice of intent to take your oral</p> <p>9 deposition of Stefan Stamoulis.</p> <p>10 A. Uh-huh.</p> <p>11 Q. And ask you if you have seen a copy of that.</p> <p>12 We can mark that Exhibit 1, please.</p> <p>13 A. I haven't seen it. Oh, I mean, I'm looking at</p> <p>14 it now, but --</p> <p>15 (Exhibit 1 marked)</p> <p>16 Q. (BY MS. JACOBS) Yeah. If you can wait to</p> <p>17 talk until she finishes doing her little exhibits just</p> <p>18 because she has trouble catching what you're saying.</p> <p>19 THE WITNESS: I'm sorry.</p> <p>20 THE REPORTER: That's okay.</p> <p>21 Q. (BY MS. JACOBS) That's no problem.</p> <p>22 So if you haven't seen this deposition</p> <p>23 notice, how did you come to appear here today?</p> <p>24 A. Someone called my office and I think it was</p> <p>25 that lady right there (indicating).</p>	8	
7	<p>1 Q. Uh-huh.</p> <p>2 A. And when they did, I called my client, who in</p> <p>3 turn called the client's attorney.</p> <p>4 Q. And who is your client?</p> <p>5 A. My client is Biggs and Mathews.</p> <p>6 Q. Okay. And who did you speak with at</p> <p>7 Biggs and Mathews?</p> <p>8 A. Mike Snyder.</p> <p>9 Q. And just so we're on the same page in terms of</p> <p>10 the terms that I anticipate using --</p> <p>11 A. Okay.</p> <p>12 Q. -- here this deposition notice references</p> <p>13 application by Pintail Landfill, LLC. When we're</p> <p>14 talking about "the applicant" -- when I reference "the</p> <p>15 applicant," that's who I'm talking about. And for</p> <p>16 New Municipal Solid Waste Permit No. 2377 --</p> <p>17 A. Uh-huh.</p> <p>18 Q. -- if I talk about "the permit" or "the</p> <p>19 application," that's what I'm referring to --</p> <p>20 A. Okay.</p> <p>21 Q. -- is Permit No. 2377.</p> <p>22 A. Okay.</p> <p>23 Q. And do you -- have you reviewed any portions</p> <p>24 of the application for this landfill filed by Pintail?</p> <p>25 A. I looked at draft logs a couple years back,</p>	<p>1 but that was it.</p> <p>2 Q. And draft logs for what drillings or what</p> <p>3 holes?</p> <p>4 A. The ones I drill out in the field.</p> <p>5 Q. And so you're talking about all the borings</p> <p>6 that you did for Pintail, the piezometers, all of those</p> <p>7 borings?</p> <p>8 A. Correct.</p> <p>9 Q. And the draft logs, were those something that</p> <p>10 you created?</p> <p>11 A. I created field logs. The client created the</p> <p>12 draft logs.</p> <p>13 Q. And what is the difference between field logs</p> <p>14 and --</p> <p>15 A. The -- the logs?</p> <p>16 Q. Yeah.</p> <p>17 A. Field logs are logs taken out in the field.</p> <p>18 The logs they had were supplemented with laboratory</p> <p>19 data.</p> <p>20 Q. And so when you reviewed those draft logs, did</p> <p>21 you then provide corrections or -- what was the purpose</p> <p>22 of your review of those draft logs?</p> <p>23 A. To make sure that the data that I had given</p> <p>24 them was correct.</p> <p>25 Q. Correct according to your field logs or</p>	9
8	<p>1 correct in what way?</p> <p>2 A. Correct according to my field logs.</p> <p>3 Q. Okay. And have you been asked by your client,</p> <p>4 Biggs and Mathews, or Mr. Ryan here or anybody else</p> <p>5 associated with this project to produce those draft</p> <p>6 field logs?</p> <p>7 A. I don't have them.</p> <p>8 Q. Okay.</p> <p>9 A. I mean, I don't --</p> <p>10 Q. Who --</p> <p>11 A. Once --</p> <p>12 Q. Who has them?</p> <p>13 A. Biggs and Mathews.</p> <p>14 Q. Okay. And you didn't retain any copies of</p> <p>15 those?</p> <p>16 A. (Nodding.) No. I guess I need to say -- give</p> <p>17 you an answer instead of shaking my head. I'm sorry.</p> <p>18 Okay. No.</p> <p>19 Q. That's okay.</p> <p>20 All right. I'm going to show you what</p> <p>21 we're going to call Exhibit No. 2.</p> <p>22 A. Uh-huh.</p> <p>23 (Exhibit 2 marked)</p> <p>24 MS. JACOBS: And Diana is going to</p> <p>25 provide everybody else with a copy of this.</p>	9	

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10	<p>1 Q. (BY MS. JACOBS) So Exhibit No. 2 --</p> <p>2 MR. RYAN: Thank you.</p> <p>3 Q. (BY MS. JACOBS) Can you just describe or</p> <p>4 identify what this document is?</p> <p>5 A. It's a -- kind of a bio.</p> <p>6 Q. And did you draft this or author this?</p> <p>7 A. I did.</p> <p>8 Q. And is the information contained in this</p> <p>9 biography that is Exhibit 2 correct?</p> <p>10 A. It's been updated.</p> <p>11 Q. And so parts have been updated?</p> <p>12 A. It says I hold two patents. I hold three.</p> <p>13 I'm not married to Sandy anymore and unfortunately I</p> <p>14 don't have my two dogs anymore.</p> <p>15 Q. I'm sorry to hear that.</p> <p>16 A. Yeah, me too.</p> <p>17 Q. Let's look at a couple of aspects of this. It</p> <p>18 says --</p> <p>19 A. Uh-huh.</p> <p>20 Q. -- in Paragraph 1 that you have "25 years of</p> <p>21 experience dealing with groundwater issues"?</p> <p>22 A. Yes, ma'am.</p> <p>23 Q. When you say "groundwater issues," what do you</p> <p>24 mean?</p> <p>25 A. It means I install monitor wells.</p>	12	<p>1 Q. Are you a Texas-licensed geoscientist?</p> <p>2 A. Yes, ma'am.</p> <p>3 Q. Are you -- and this may be the same thing and</p> <p>4 I'm not sure. But are you a Texas-licensed geologist?</p> <p>5 A. It's classified geoscientist, but it's in</p> <p>6 geology, yes, ma'am.</p> <p>7 Q. And you're currently licensed?</p> <p>8 A. Yes, ma'am.</p> <p>9 Q. And what is your license number?</p> <p>10 A. 333.</p> <p>11 Q. That's easy.</p> <p>12 A. Yeah.</p> <p>13 Q. And when did you --</p> <p>14 A. Half the devil.</p> <p>15 Q. And when did you obtain your license?</p> <p>16 A. Whenever they came out with the -- I was one</p> <p>17 of the early ones, 333 -- when they came out with the</p> <p>18 registration.</p> <p>19 Q. And do you --</p> <p>20 A. I can't remember the year.</p> <p>21 Q. Okay. And have you -- are you licensed in any</p> <p>22 other state?</p> <p>23 A. Applied for a license in Louisiana.</p> <p>24 Q. Okay. And did you --</p> <p>25 A. It's pending.</p>
11	<p>1 Q. That's the sort of sum total of what you mean</p> <p>2 by that? And I realize that some of the questions that</p> <p>3 I ask may seem maybe difficult for you to understand why</p> <p>4 I'm asking them. But just be patient with me. Okay?</p> <p>5 A. Yes, ma'am. Yeah. No, absolutely.</p> <p>6 Q. All right.</p> <p>7 A. Yeah.</p> <p>8 Q. Okay.</p> <p>9 A. Yeah. We install and sample groundwater.</p> <p>10 Q. Okay. And it says in the second paragraph</p> <p>11 that you "have installed more monitoring wells at</p> <p>12 landfills than any other company or individual in the</p> <p>13 state of Texas"?</p> <p>14 A. Yes, ma'am.</p> <p>15 Q. And -- and when you say "monitoring wells,"</p> <p>16 does that include the piezometers?</p> <p>17 A. Yes, ma'am.</p> <p>18 Q. Okay. And that you are currently providing</p> <p>19 "groundwater consulting services to over 50 facilities</p> <p>20 in Texas"?</p> <p>21 A. I think at the time we had 50. I think it's</p> <p>22 less than that now.</p> <p>23 Q. And when you mean -- when you say</p> <p>24 "facilities," are those landfills?</p> <p>25 A. Yes, ma'am.</p>	13	<p>1 Q. It's pending?</p> <p>2 A. Not finalized.</p> <p>3 Q. Okay. And are you self-employed?</p> <p>4 A. I am.</p> <p>5 Q. Do you work for a registered geoscientist</p> <p>6 firm?</p> <p>7 A. Hydrogeologic/Environmental Testing.</p> <p>8 Q. And that's your firm?</p> <p>9 A. It is.</p> <p>10 Q. And are you a sole proprietor?</p> <p>11 A. It's a corporation.</p> <p>12 Q. Do you know what kind of corporation?</p> <p>13 A. Like S or a C?</p> <p>14 Q. Uh-huh?</p> <p>15 A. Is what you're asking?</p> <p>16 Q. Yes.</p> <p>17 A. I believe it's a C.</p> <p>18 Q. And do you know what your firm's registration</p> <p>19 number is?</p> <p>20 A. No.</p> <p>21 Q. Is your -- and you -- but you said your firm</p> <p>22 is registered?</p> <p>23 A. Yes.</p> <p>24 Q. These are not trick questions.</p> <p>25 A. No. I --</p>

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14	<p>1 Q. You're looking at me like this is a trick.</p> <p>2 These are not trick questions.</p> <p>3 A. No, no. I mean, I --</p> <p>4 Q. I'm honestly seeking information here.</p> <p>5 A. No. And I may have -- I think we -- I was</p> <p>6 remembering if we paid the fee. I think it's</p> <p>7 registered.</p> <p>8 Q. Gotcha. And, you know, if you at any point</p> <p>9 are unsure or don't know the answer to a question, that</p> <p>10 is perfectly fine.</p> <p>11 A. Okay.</p> <p>12 Q. You just tell me.</p> <p>13 A. Yes, ma'am.</p> <p>14 Q. Do you remember when your firm was first</p> <p>15 registered?</p> <p>16 A. No.</p> <p>17 Q. Okay. Do you know whether at the time that</p> <p>18 you did this work for Biggs and Mathews for Pintail</p> <p>19 whether you were working at a Texas-registered</p> <p>20 geoscientist firm? In other words --</p> <p>21 A. Don't know.</p> <p>22 Q. Okay. And are you also a licensed well</p> <p>23 driller?</p> <p>24 A. I am.</p> <p>25 Q. And do you recall how long you've been</p>	16	<p>1 Q. And I've got a highlighted statement at the</p> <p>2 bottom.</p> <p>3 A. Uh-huh.</p> <p>4 Q. "HE/T has assembled a qualified team of</p> <p>5 professionals to achieve well/piezometer installations,</p> <p>6 soil and groundwater sample acquisitions, statistical</p> <p>7 evaluation and interpretation of subsurface and</p> <p>8 hydrogeological conditions as required by State and/or</p> <p>9 Federal regulations."</p> <p>10 Do you see that statement?</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. And what I wanted to ask you is to get a</p> <p>13 better idea of your experience because you've obviously</p> <p>14 been doing this for at least 25 years. You've been</p> <p>15 constructing these monitoring wells, if I'm</p> <p>16 understanding you correctly, for at least 25 years, is</p> <p>17 that right?</p> <p>18 A. Yes, ma'am.</p> <p>19 Q. So when you say that your company "has</p> <p>20 assembled a qualified team of professionals" --</p> <p>21 A. Uh-huh.</p> <p>22 Q. -- "to achieve well/piezometer installation,"</p> <p>23 are you one of those qualified team members in that</p> <p>24 regard?</p> <p>25 A. Yes, ma'am.</p>
15	<p>1 licensed?</p> <p>2 A. Don't recall.</p> <p>3 Q. I'm going to give you what I believe -- and</p> <p>4 I'll have you identify this for us -- but I believe</p> <p>5 these are printouts from your company's website and I'm</p> <p>6 going to have the court reporter mark that Exhibit 3.</p> <p>7 (Exhibit 3 marked)</p> <p>8 Q. (BY MS. JACOBS) And could you look through</p> <p>9 that and just identify that document for me or identify</p> <p>10 those pages, if you will.</p> <p>11 A. (Reviewing document.)</p> <p>12 Q. Do you want to identify that?</p> <p>13 A. Looks like it, yes, ma'am.</p> <p>14 Q. Looks like your website?</p> <p>15 A. Yeah. I haven't seen my website in a while.</p> <p>16 Yeah.</p> <p>17 Q. Printouts from your website?</p> <p>18 A. Yeah.</p> <p>19 Q. You probably don't need to pay much attention</p> <p>20 to marketing.</p> <p>21 A. Yeah.</p> <p>22 Q. So if we could look on Page 3.</p> <p>23 A. Uh-huh.</p> <p>24 Q. And this is under the "Services" section.</p> <p>25 A. Uh-huh.</p>	17	<p>1 Q. And how -- do you have, like, an estimation of</p> <p>2 how many piezometers you have installed over the years,</p> <p>3 ballpark figure?</p> <p>4 A. No. A bunch.</p> <p>5 Q. Do you consider yourself -- and I think this</p> <p>6 probably answers itself -- but do you consider yourself</p> <p>7 qualified as a professional geoscientist to install</p> <p>8 these piezometers?</p> <p>9 A. Yes.</p> <p>10 Q. And you consider you have a certain level of</p> <p>11 expertise in that field?</p> <p>12 A. Yes.</p> <p>13 Q. And I'm going to ask you the same question</p> <p>14 about the soil and groundwater sample acquisition --</p> <p>15 A. Uh-huh.</p> <p>16 Q. -- that's referenced in Exhibit 3.</p> <p>17 You are one of the qualified team members</p> <p>18 of professionals regarding soil and groundwater sample</p> <p>19 acquisition?</p> <p>20 A. Yes.</p> <p>21 Q. And do you consider yourself qualified as a</p> <p>22 professional geoscientist to take these soil and</p> <p>23 groundwater samples?</p> <p>24 A. Yes.</p> <p>25 Q. And do you consider that you have a level of</p>

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18	<p>1 expertise in doing that?</p> <p>2 A. Yes.</p> <p>3 Q. Do you have any idea how many samples you've</p> <p>4 taken over the years?</p> <p>5 A. No.</p> <p>6 Q. You think it's a lot?</p> <p>7 A. Yeah.</p> <p>8 Q. And same thing with this next one with the</p> <p>9 "statistical evaluation and interpretation of subsurface</p> <p>10 and hydrogeological conditions."</p> <p>11 A. Uh-huh.</p> <p>12 Q. Is this something -- is this an area that you</p> <p>13 also feel that you are an expert in?</p> <p>14 A. No.</p> <p>15 Q. Okay. So you're not one of the qualified team</p> <p>16 members?</p> <p>17 A. No. We team with people to do that</p> <p>18 statistical analysis. Yeah.</p> <p>19 Q. Okay. And so who do you team with to do the</p> <p>20 statistical analysis?</p> <p>21 A. Biggs and Mathews. I think there is a firm</p> <p>22 in -- that we deal with here in Austin, Pastor, Wheeler</p> <p>23 and somebody.</p> <p>24 Q. Okay. So the statistical evalu- --</p> <p>25 A. You know, various -- various firms.</p>	20	<p>1 Q. Yes.</p> <p>2 A. In a field log? Yes.</p> <p>3 Q. And how many borings would you or how many</p> <p>4 field logs would you estimate that you have created over</p> <p>5 the years?</p> <p>6 A. A bunch.</p> <p>7 Q. Hundreds?</p> <p>8 A. Hundreds.</p> <p>9 Q. And -- and when you say "movement of</p> <p>10 groundwater" as being part of that interpretation --</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. -- of the subsurface and hydrogeological</p> <p>13 conditions, how do you -- what aspect of determining the</p> <p>14 movement of groundwater is within your area of</p> <p>15 expertise?</p> <p>16 A. Say again.</p> <p>17 Q. We're talking about --</p> <p>18 A. Can I determine which way the groundwater is</p> <p>19 going?</p> <p>20 Q. No. What I'm asking is -- well, yeah. But --</p> <p>21 sure, we can start there.</p> <p>22 A. All you need is three points to figure out</p> <p>23 which way groundwater is moving.</p> <p>24 Q. Okay. And you would get those three points</p> <p>25 from?</p>
19	<p>1 Q. So the statistical evaluation --</p> <p>2 A. We don't do it inhouse.</p> <p>3 Q. You don't do it inhouse. Okay.</p> <p>4 How about the "interpretation of</p> <p>5 subsurface and hydrogeological conditions"? Do you do</p> <p>6 that inhouse?</p> <p>7 A. No.</p> <p>8 Q. Okay. And what do you -- what -- how do</p> <p>9 you -- what does that phrase mean in this context here?</p> <p>10 What do you -- you didn't write this?</p> <p>11 A. Someone else wrote it.</p> <p>12 Q. Okay. So -- well, what does -- regardless of</p> <p>13 who wrote it --</p> <p>14 A. Yeah.</p> <p>15 Q. -- what does "interpretation of subsurface and</p> <p>16 hydrogeological conditions" mean to you? What does that</p> <p>17 consist of?</p> <p>18 A. Identification of soils, identification of</p> <p>19 aquifers, movement of groundwater.</p> <p>20 Q. And so -- and would you include, I guess, in</p> <p>21 identification of soils -- is that what you do when you</p> <p>22 create a log?</p> <p>23 A. Identification of soils?</p> <p>24 Q. Yes.</p> <p>25 A. Describing soils?</p>	21	<p>1 A. Piezometers.</p> <p>2 Q. Okay. And what I was trying to ask is --</p> <p>3 because we're -- what I'm trying to flesh out here is</p> <p>4 what are your areas of expertise? What are the things</p> <p>5 that you have the most experience in? What do you feel</p> <p>6 confident in your ability to accomplish because there's</p> <p>7 some things that might be within your abilities and your</p> <p>8 experience and there's going to be some things that</p> <p>9 won't be. And so I'm trying to determine from this</p> <p>10 phrase "interpretation of subsurface and hydrogeologic</p> <p>11 conditions," what are the things that you consider</p> <p>12 yourself qualified to do as a professional geoscientist.</p> <p>13 And so the question I had is, with respect</p> <p>14 to the movement of groundwater, which you have now</p> <p>15 clarified how you would achieve that, finding that, are</p> <p>16 there any other aspects of the -- of determining how</p> <p>17 groundwater moves in the subsurface that you feel you</p> <p>18 have experience and are qualified to do? Any other</p> <p>19 testing related to that?</p> <p>20 A. We do, you know, slug aquifer testing.</p> <p>21 Q. Okay. And with respect to slug testing, do</p> <p>22 you -- is that something that you do often?</p> <p>23 A. Yeah.</p> <p>24 Q. Okay. I mean, can you be a little more</p> <p>25 specific? How often? How many times a year would you</p>

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<p style="text-align: right;">22</p> <p>1 guess that you do slug testing? 2 A. Depends on how many projects we're working on 3 a year. So -- 4 Q. Well, and I'm not asking you to speculate 5 about the future. I'm asking you to look back over your 6 25 years, to the best of your ability, and say, Hey, 7 okay. I typically do X number of slug tests a year. Or 8 if that's not a good measure, then you can think of some 9 other way to describe it for me. 10 A. I'm trying to figure out how to describe this. 11 I guess, you know -- I don't know how many a year. I 12 really don't. 13 Q. Okay. Over the course of your career, would 14 you say you've done it ten times? 15 A. More. 16 Q. 20 times? 17 A. More. 18 Q. 50 times? 19 A. Probably -- I mean, less. 20 Q. Okay. So somewhere between 20 and 50? 21 A. Yes, ma'am. 22 Q. And administering these slug tests, this is 23 something that you feel is within your arena of 24 expertise and experience? 25 A. Field data acquisition, yes.</p>	<p style="text-align: right;">24</p> <p>1 representative on site and we talked about riding -- 2 driving dirt bikes and stuff. 3 Q. Very pertinent, relevant information. 4 A. It's -- yeah. It was -- 5 Q. And who was that representative? 6 A. Thad. I can't remember his last name. It's 7 been too many years. 8 Q. And anyone else with Pintail that you recall 9 meeting or talking to? 10 A. I met some people there on -- on the site on 11 the facility, but I don't remember who they were. I 12 mean, their representatives were coming and going. I 13 don't... 14 Q. And have you talked to Mr. Ryan about the 15 project or taken any direction from Mr. Ryan or anyone 16 with his firm? 17 A. About the project or about my deposition? 18 Q. Well, we can start with the project. 19 A. No. 20 Q. Okay. And what did you talk with Mr. Ryan 21 about regarding your deposition? 22 A. I had no idea what a deposition -- or what my 23 role in this deposition was and I discussed that with 24 him. Wanted to see if I should bring my own attorney, 25 that kind of stuff.</p>
<p style="text-align: right;">23</p> <p>1 Q. Okay. We're going to start talking about 2 the -- and we'll probably go as best I can in 3 chronological order. 4 A. Okay. 5 Q. We're going to talk about the work that you've 6 specifically done for this landfill application. 7 A. Okay. 8 Q. And I realize you were -- if I'm understanding 9 you correctly, you consider Biggs and Mathews to be your 10 client? 11 A. Took direction from them. 12 Q. Okay. So I'll try to specify when I'm talking 13 about, you know -- 14 A. That's fine. 15 Q. -- Biggs and Mathews versus Pintail. 16 A. That's fine. 17 Q. Did you ever take any direction from anyone 18 with Pintail? 19 A. No. 20 Q. Did you ever talk to anybody with Pintail? 21 A. Yeah. 22 Q. Okay. And what kinds of things -- if you 23 weren't taking direction from them, what kinds of things 24 were you talking with them about? 25 A. They came out to the site and they had a</p>	<p style="text-align: right;">25</p> <p>1 Q. And so you were not informed by Biggs and 2 Matthews or anyone else that you might be called upon in 3 the course of this type of proceeding? 4 A. I think the first time is when I got a phone 5 call. I don't know. I think so. 6 Q. You mean from Ms. Nichols? 7 A. Yes, ma'am. 8 Q. Okay. Let's talk about what I understand 9 are -- you called exploratory borings. 10 You did six initial exploratory borings? 11 A. Yes, ma'am. 12 Q. Is that the term that you use to describe 13 those? 14 A. Yeah. 15 Q. Okay. And the six borings I'm talking about, 16 just to be clear, are at the site that Pintail has 17 designated as being its potential landfill site. And 18 is -- did you also refer to that as being -- and I don't 19 know if I'm going to say this right -- the Marengo 20 tract? 21 A. The Marengo tract. Uh-huh. 22 Q. Okay. So if I say "Marengo tract," then you 23 know that -- 24 A. Yeah. Right. Yeah. Yeah. 25 Q. -- I'm talking about the proposed landfill</p>

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26	<p>1 site?</p> <p>2 A. We're talking about the site.</p> <p>3 Q. Right.</p> <p>4 Did you submit any kind of written</p> <p>5 proposal regarding to Biggs and Mathews or to anyone</p> <p>6 with Pintail or anyone else regarding this initial</p> <p>7 drilling of the exploratory bore holes?</p> <p>8 A. I don't know.</p> <p>9 Q. You don't remember?</p> <p>10 A. I don't remember.</p> <p>11 Q. And do you remember if there was any</p> <p>12 discussion about drilling on any other tracts?</p> <p>13 A. No. I don't remember.</p> <p>14 Q. Okay. What I will try to do is when I have</p> <p>15 them, I will try to provide whatever documents I can to</p> <p>16 help refresh your memory.</p> <p>17 A. Yeah. Yeah.</p> <p>18 Q. We're going to label this next document</p> <p>19 Exhibit No. 4.</p> <p>20 (Exhibit 4 marked)</p> <p>21 Q. (BY MS. JACOBS) And this is -- well, I'll</p> <p>22 first just ask you if you've seen this document before?</p> <p>23 MS. JACOBS: We can go off the record</p> <p>24 while he reviews it.</p> <p>25 (Recess from 11:33 a.m. to 11:34 a.m.)</p>	28	<p>1 Q. (BY MS. JACOBS) When you say "basic areas,"</p> <p>2 can you be a little bit more specific?</p> <p>3 A. He didn't want all six borings next to each</p> <p>4 other.</p> <p>5 Q. Okay.</p> <p>6 A. Yeah.</p> <p>7 Q. So he gave you that direction and then did you</p> <p>8 pick the specific locations?</p> <p>9 A. No. He -- I mean, basically -- basically he</p> <p>10 said, Here's the property. Get one close to the corners</p> <p>11 and one in the middle type deal. I mean, you know.</p> <p>12 Q. Okay. So you picked -- so he gave you general</p> <p>13 direction about how to do it and then you went out and</p> <p>14 picked which exact locations you were going to do?</p> <p>15 A. Basically, yeah.</p> <p>16 Q. Did you -- did you verify with him in advance</p> <p>17 that you had gotten the appropriate locations before</p> <p>18 drilling them?</p> <p>19 A. We probably talked about them once I looked at</p> <p>20 the site and said, Hey, I'm going to drill one here,</p> <p>21 here, her and here type deal for all six of them.</p> <p>22 Q. Okay. And when you located these -- you</p> <p>23 picked these locations, how did you locate these</p> <p>24 exploratory boring locations when you were out in the</p> <p>25 field? And what I'm looking for is I'm assuming -- not</p>
27	<p>1 A. Yeah. I don't remember this document.</p> <p>2 Q. (BY MS. JACOBS) Okay. And would you agree</p> <p>3 with me this appears to be an e-mail from Mike Snyder to</p> <p>4 William F. Hodges dated November 24th, 2010?</p> <p>5 A. That's what it looks like.</p> <p>6 Q. And for the record, we're referring to a</p> <p>7 document produced by the applicant Bates labeled 001263.</p> <p>8 So after looking at this e-mail, do you</p> <p>9 have any recollection of discussing these borings on the</p> <p>10 what's call the Peterson tract?</p> <p>11 A. I don't -- I don't remember that.</p> <p>12 Q. And that's perfectly okay.</p> <p>13 A. Yeah. I don't -- I don't remember. I don't</p> <p>14 remember there being two tracts there. I really don't.</p> <p>15 Q. Okay.</p> <p>16 A. Maybe there was. I don't remember.</p> <p>17 Q. It's not a problem.</p> <p>18 Do you recall who picked the locations for</p> <p>19 these initial six exploratory borings?</p> <p>20 A. My client Mike Snyder.</p> <p>21 Q. And did you have any input in that selection</p> <p>22 process?</p> <p>23 A. He wanted basic areas and I got within what I</p> <p>24 thought were those areas.</p> <p>25 (Dr. Philip C. Bennett entered.)</p>	29	<p>1 knowing anything about how you do your business, I'm</p> <p>2 assuming that when you get out there, you have to figure</p> <p>3 out, Okay. What specific location do I want to go to?</p> <p>4 And then you have to make some sort of record of, Here's</p> <p>5 where I'm at. Here's where I'm drilling this particular</p> <p>6 bore hole.</p> <p>7 Is that right?</p> <p>8 A. There's -- I mean, we took a GPS reading at</p> <p>9 the location.</p> <p>10 Q. Okay.</p> <p>11 A. Sure.</p> <p>12 Q. What kind of GPS did you utilize?</p> <p>13 A. Handheld.</p> <p>14 Q. Okay. And do you recall the brand?</p> <p>15 A. Garmin.</p> <p>16 Q. Okay. And do you know what kind of -- what</p> <p>17 model number?</p> <p>18 A. No.</p> <p>19 Q. Okay. And were you the person that did that,</p> <p>20 used the Garmin to locate --</p> <p>21 A. Yeah. Yeah.</p> <p>22 Q. -- exploratory boring locations?</p> <p>23 A. Yeah. Uh-huh.</p> <p>24 Q. Okay. And for these particular borings -- and</p> <p>25 it's my understanding that these borings are designated</p>

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30	<p>1 EB-1 through EB-6. 2 Is that your recollection? 3 A. Yes, ma'am. 4 Q. And do you recall how many borings there 5 are -- there were? Is it -- does six sound right to 6 you? 7 A. I think it is, yes, ma'am. 8 Q. Okay. Do you recall who picked the depths of 9 these particular borings? 10 A. Mike Snyder. 11 Q. And what depth did he -- did he pick or depths 12 did he pick? 13 A. I can't remember. 14 Q. Okay. I'm going to -- this is another one of 15 those documents that we'll use to kind of -- 16 A. Yeah. 17 Q. -- help refresh, because I do realize -- 18 A. Yeah. 19 Q. -- this is a while back. I mean -- 20 A. Right. Yeah. 21 Q. -- I don't remember what I did yesterday, 22 so -- I'm going to -- be a document which we will mark 23 Exhibit 5 and have you identify that for me. 24 (Exhibit 5 marked) 25 A. (Reviewing document.) Okay.</p>	32	<p>1 A. To 78. 2 Q. -- to 78. 3 Do you recall why that one went to 78 feet 4 in depth as opposed to the 60 foot for the other ones? 5 A. I don't. 6 Q. Okay. And so when we're -- when -- in this 7 letter when it says, "Borehole locations were estimated 8 in the field," what -- is that just what we were just 9 talking about where you -- 10 A. Yeah. 11 Q. -- used the Garmin to locate it and then 12 provide the -- 13 A. Latitude and longitude are located on the 14 logs. 15 Q. Okay. And the latitude, longitude, that's the 16 information you got from the Garmin? 17 A. GPS reading, yes, ma'am. 18 Q. Great. 19 And did you -- have you had any 20 discussions with anybody from the Texas Commission on 21 Environmental Quality regarding this application? 22 A. No. 23 Q. And so you didn't receive any approval or 24 anything for this aspect of the boring project from 25 anyone else besides Biggs and Mathews, is that correct?</p>
31	<p>1 Q. (BY MS. JACOBS) And so can you identify the 2 document that I just placed in front of you as 3 Exhibit 5? 4 A. Yeah. It's one of the ones I brought in. 5 Q. That is correct. This actually is a version, 6 though, that was produced by the applicant that has a 7 Bates label number at the bottom. 8 A. Okay. 9 Q. And the Bates label number for the record is 10 001261. 11 A. Yes, ma'am. 12 Q. But you also did bring a copy, which I very 13 much appreciate. 14 A. Uh-huh. 15 Q. And it look like this is a letter from you to 16 Biggs and Mathews, attention Mike Snyder, dated 17 December 16th, 2012, is that right? 18 A. Correct. 19 Q. Okay. And using this to refresh your memory, 20 I'm going to ask you again what were the depths of the 21 six bore holes that we're calling EB-1 through EB-6? 22 A. Five of them went to 60 foot and one went to 23 78. 24 Q. And do you recall -- I think it says in this 25 letter that EB-1 is the one that went --</p>	33	<p>1 A. Correct. 2 Q. Okay. Let's talk a little bit about how you 3 did some other things related to these exploratory 4 borings. 5 Did you when you were out in the field -- 6 I know we've talked about how you located where each 7 boring was going to be. 8 Did you take a surface elevation reading 9 at those points as well? 10 A. Probably not. 11 Q. Okay. 12 MS. JACOBS: Can we take a moment off the 13 record? 14 (Recess from 11:42 a.m. to 11:43 a.m.) 15 Q. (BY MS. JACOBS) I'm going to hand you another 16 stack of papers, and this is -- 17 A. Uh-huh. 18 Q. -- again for purposes of sort of facilitating 19 our discussion, refreshing your memory. And we're going 20 to mark these Exhibit 5 -- 6. 21 A. 6. 22 Q. See, you're getting the hang of this. 23 (Exhibit 6 marked) 24 Q. (BY MS. JACOBS) And if you would take a 25 moment and just look at those.</p>

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34	<p>1 A. Uh-huh.</p> <p>2 MS. JACOBS: And we can go off the record</p> <p>3 for this.</p> <p>4 (Recess from 11:44 a.m. to 11:45 a.m.)</p> <p>5 A. Yes, ma'am.</p> <p>6 Q. (BY MS. JACOBS) Could you identify those --</p> <p>7 that stack of documents I just handed you that we've</p> <p>8 marked Exhibit 6?</p> <p>9 A. Yeah. Those are boring logs for EB-1 through</p> <p>10 EB-6.</p> <p>11 Q. And so they're the logs for these exploratory</p> <p>12 borings that we've been talking about?</p> <p>13 A. Yes, ma'am.</p> <p>14 Q. And are these logs that you created?</p> <p>15 A. No.</p> <p>16 Q. And so is -- are we again dealing with the</p> <p>17 situation you were describing before where you did field</p> <p>18 logs?</p> <p>19 A. Right.</p> <p>20 Q. And then gave that information to Biggs and</p> <p>21 Mathews?</p> <p>22 A. Correct.</p> <p>23 Q. And just so I know what we're looking for,</p> <p>24 with field logs, are field logs done by hand?</p> <p>25 A. They are.</p>	36	<p>1 So did -- do you know whether a surveyor</p> <p>2 went out there afterwards, out to the Marengo tract</p> <p>3 afterwards and located?</p> <p>4 A. I'm sure they did.</p> <p>5 Q. Okay. But you were not involved in that?</p> <p>6 A. No, no. I didn't -- I didn't contract the</p> <p>7 surveyors, no.</p> <p>8 Q. Okay. So looking at this, just so we're clear</p> <p>9 and I don't keep asking the same question here --</p> <p>10 A. Uh-huh.</p> <p>11 Q. -- still looking at this log of Boring</p> <p>12 No. EB-1 --</p> <p>13 A. Yes, ma'am.</p> <p>14 Q. -- what on this log -- which information on</p> <p>15 this log did you collect?</p> <p>16 A. The sample interval. Okay. See where it says</p> <p>17 "Sample" (sic)?</p> <p>18 Q. The second column?</p> <p>19 A. Right. Uh-huh.</p> <p>20 Q. Got it.</p> <p>21 A. I collected that data.</p> <p>22 Q. Okay.</p> <p>23 A. The first sample we took was U1.</p> <p>24 Q. Okay.</p> <p>25 A. It was a sand. Okay?</p>
35	<p>1 Q. Okay. So when -- and this is part of my</p> <p>2 confusion here.</p> <p>3 A. Okay.</p> <p>4 Q. If we look at EB-1, the first page of the</p> <p>5 stack that I handed you and the log of the boring EB-1.</p> <p>6 A. Uh-huh.</p> <p>7 Q. And by the way, just for the record, this --</p> <p>8 these are copies of these logs that we obtained from</p> <p>9 Pintail's technically complete December 10th, 2012,</p> <p>10 application.</p> <p>11 A. Okay.</p> <p>12 Q. And that's right here at the bottom. That's</p> <p>13 what that means.</p> <p>14 A. Okay. Yes, ma'am.</p> <p>15 Q. Here it says, Surface Elevation up at the top.</p> <p>16 A. Yes, ma'am.</p> <p>17 Q. And I understood you to say that you did not</p> <p>18 take surface elevation readings out in the field or you</p> <p>19 were not remembering whether you did, is that right?</p> <p>20 A. No. I -- I didn't take the survey elevation</p> <p>21 out in the field. And I didn't take that northern and</p> <p>22 eastern out in the field. That was done by a surveyor.</p> <p>23 Q. Okay. So a surveyor located the --</p> <p>24 A. Afterwards, yes, ma'am.</p> <p>25 Q. Afterwards. Okay.</p>	37	<p>1 Q. Got it.</p> <p>2 A. All right. We took the hand penetrometer,</p> <p>3 which was a field test that you do to check the -- and</p> <p>4 so I took -- oh, and the symbol, they put that in. So I</p> <p>5 did "Sample," "MATERIAL DESCRIPTION," "Hand</p> <p>6 Penetrometer" or blow counts per foot column. I</p> <p>7 provided them with -- you know, I told them what the</p> <p>8 drilling method and the sampling method and my name and</p> <p>9 stuff. And basically, you know, gave them the remarks,</p> <p>10 which were notes for them to know, you know, where we</p> <p>11 set up and started washing the boring, where we were</p> <p>12 going to dry and where we were washing them.</p> <p>13 Q. Got it. And so you -- and would that -- would</p> <p>14 those comments or description of the portions of the log</p> <p>15 for which you were responsible hold true for the rest of</p> <p>16 these exploratory boring logs as well? In other words,</p> <p>17 if I took you through EB-2, EB-3, EB-4, did you -- were</p> <p>18 you responsible for the --</p> <p>19 A. Yeah. Yes. Yes, ma'am.</p> <p>20 Q. -- same --</p> <p>21 A. Yeah. Yeah.</p> <p>22 Q. Okay.</p> <p>23 A. Uh-huh. I mean, and -- I mean, the field logs</p> <p>24 are -- are -- you know, the position of the stuff is</p> <p>25 different. I mean, I gave them the completion depth and</p>

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38	<p>1 when the boring was started and completed, but...</p> <p>2 Q. All right. Okay. And is it -- and the same</p> <p>3 thing, were you responsible for -- let's turn to "LOG OF</p> <p>4 BORING NO. EB-2."</p> <p>5 A. Okay.</p> <p>6 Q. And were you responsible for the "Groundwater</p> <p>7 Observations" portion at the bottom of this document?</p> <p>8 And I'm looking down here where it -- you know, right by</p> <p>9 where it says, "Drilling Contractor, Drilling Method"</p> <p>10 and then --</p> <p>11 A. Uh-huh.</p> <p>12 Q. -- the next column over it looks like it says</p> <p>13 "Groundwater Observations."</p> <p>14 A. Right. Right.</p> <p>15 Q. And you were the person who observed -- made</p> <p>16 this observation about the groundwater depth?</p> <p>17 A. Yeah.</p> <p>18 Q. And was that also something that you noted in</p> <p>19 your field logs?</p> <p>20 A. Yeah. Uh-huh.</p> <p>21 Q. And did you take any geophysical logs of</p> <p>22 these --</p> <p>23 A. No.</p> <p>24 Q. -- six holes?</p> <p>25 A. No.</p>	40	<p>1 A. Right.</p> <p>2 Q. What does --</p> <p>3 A. Dry augered. We didn't have -- we weren't</p> <p>4 introducing water while drilling.</p> <p>5 Q. And what does it mean "set up to wash"?</p> <p>6 A. We set up a mud rotary pit and we mixed up mud</p> <p>7 and we started drilling from there --</p> <p>8 Q. And so did --</p> <p>9 A. -- because -- because we couldn't physically</p> <p>10 keep the hole open.</p> <p>11 Q. Got it.</p> <p>12 So you went dry as far as you could and</p> <p>13 then you went wet?</p> <p>14 A. Right.</p> <p>15 Q. And when you observed that groundwater at the</p> <p>16 depth of 28 feet -- and is that 28 feet below the</p> <p>17 surface of the ground surface?</p> <p>18 A. Yes, ma'am.</p> <p>19 Q. And when you observed that, how did you -- how</p> <p>20 did you know it was 28 feet? How did you measure that</p> <p>21 groundwater level?</p> <p>22 A. I don't remember, but if it was noted at</p> <p>23 28 foot, we measured it somehow or we -- while we were</p> <p>24 drilling, we realized at 28 foot that we -- it was</p> <p>25 saturated.</p>
39	<p>1 Q. And is that something that you ever discussed</p> <p>2 with anybody from Biggs and Mathews, possibility of</p> <p>3 taking geophysical logs?</p> <p>4 A. I didn't discuss it with them, no.</p> <p>5 Q. And going back to this EB-2 -- log of EB-2 --</p> <p>6 A. Uh-huh.</p> <p>7 Q. -- when we were talking about the groundwater</p> <p>8 observations --</p> <p>9 A. Uh-huh.</p> <p>10 Q. -- how did you -- and again, I'm just talking</p> <p>11 about the exploratory borings.</p> <p>12 A. Okay.</p> <p>13 Q. How did you note that depth of groundwater?</p> <p>14 A. We were drilling dry.</p> <p>15 Q. Okay.</p> <p>16 A. Okay?</p> <p>17 Q. Okay.</p> <p>18 A. We were drilling in dry conditions and we hit</p> <p>19 water. And if you look at the "Remarks" section, it</p> <p>20 says, "Dry augered to 30.0'." Okay? So at 28 foot</p> <p>21 right there in this particular case on this boring,</p> <p>22 EB-2, we hit water. There was water there. And we were</p> <p>23 in a sand. And we couldn't go past the 28- and 30-foot</p> <p>24 sample, so that's why we set up and washed.</p> <p>25 Q. And you said you were drilling dry?</p>	41	<p>1 Q. How do you typically take water levels in bore</p> <p>2 holes? What kind of -- do you have an instrument like</p> <p>3 an E line or?</p> <p>4 A. You can -- you can drop an E line down a hole</p> <p>5 if it's not caving. So yes.</p> <p>6 Q. Well, I guess what I'm asking is that even if</p> <p>7 you don't remember particularly, is there -- I mean,</p> <p>8 what -- is it possible that you just eyeballed this</p> <p>9 depth of water?</p> <p>10 A. I don't think I could see 28 foot down in a</p> <p>11 hole.</p> <p>12 Q. Okay. That's kind of what I thought. That's</p> <p>13 why I was trying to get at the --</p> <p>14 A. Yeah.</p> <p>15 Q. -- instrumentation here.</p> <p>16 A. Yeah.</p> <p>17 Q. And when you were talking about how you had to</p> <p>18 dry auger and then you did -- I guess it says down at</p> <p>19 the bottom of EB-2 "Wet Rotary" --</p> <p>20 A. Uh-huh.</p> <p>21 Q. -- were you using a hollow stem auger or a</p> <p>22 solid stem?</p> <p>23 A. We were using dry auger methods, so we had a</p> <p>24 bit on. So we were not using hollow stem, no.</p> <p>25 Q. And did you take any other samples or -- did</p>

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42	<p>1 you take any samples from the borings EB-1 through EB-6?</p> <p>2 A. Did we take any samples?</p> <p>3 Q. Yes.</p> <p>4 A. (Reviewing document.) Yes.</p> <p>5 Q. Okay. And are you -- when you're looking at</p> <p>6 Exhibit 6, are you referring to the second column from</p> <p>7 the left labeled "Samples"?</p> <p>8 A. Yes.</p> <p>9 Q. Did you take any other types of samples</p> <p>10 perhaps to send them off somewhere to be tested further?</p> <p>11 A. Those were the samples that were taken to be</p> <p>12 tested.</p> <p>13 Q. And so all of these samples were --</p> <p>14 A. I -- I don't know if they were tested. They</p> <p>15 were sent to them.</p> <p>16 Q. Okay.</p> <p>17 A. I don't know if they were tested.</p> <p>18 Q. And where did you send them?</p> <p>19 A. Biggs and Mathews.</p> <p>20 Q. And so when you were taking these samples --</p> <p>21 A. Uh-huh.</p> <p>22 Q. -- for what purposes were you taking the</p> <p>23 samples? And I'm again referring to the samples that</p> <p>24 you have noted on these logs of the borings EB-1 through</p> <p>25 EB-6.</p>	44	<p>1 A. Shelby tube was pushed.</p> <p>2 Q. Shelby tube?</p> <p>3 A. Uh-huh. Shelby tube was pushed.</p> <p>4 Q. Okay. And so are you saying that if you are</p> <p>5 in the field and you take that sample and you look at it</p> <p>6 or do whatever it is that you do with it in the field --</p> <p>7 A. Uh-huh.</p> <p>8 Q. -- that you then send that sample, you will</p> <p>9 note on your field log what you think it is with respect</p> <p>10 to the material description?</p> <p>11 A. Correct.</p> <p>12 Q. Is that right?</p> <p>13 A. Uh-huh.</p> <p>14 Q. And then you send the sample U1 and your field</p> <p>15 log to Biggs and Mathews?</p> <p>16 A. Correct.</p> <p>17 Q. And then Biggs and Mathews, as your -- you</p> <p>18 understand it, test the sample, U1, to see if it matches</p> <p>19 up with the material description you've provided in your</p> <p>20 field log?</p> <p>21 A. They get property tests. Like for instance if</p> <p>22 it's a sand, they'll do a grain size distribution. If</p> <p>23 it's a clay, they find out what the liquid limits,</p> <p>24 plastic limits are. Looking at these logs, apparently</p> <p>25 no tests were sampled because they're not in the</p>
43	<p>1 A. What purpose were we taking samples for?</p> <p>2 Q. Yes. Remember, just as you do not know about</p> <p>3 the law, I do not know about drilling borings.</p> <p>4 A. How do you know I don't know about the law?</p> <p>5 Q. Because you didn't know about depositions.</p> <p>6 A. So this is the difference between a field log</p> <p>7 and a final log that we have here.</p> <p>8 Q. Okay.</p> <p>9 A. Samples are taken and they're tested in the</p> <p>10 laboratory and it verifies the description that we</p> <p>11 continue the field. Okay? So it's -- it's a</p> <p>12 verification.</p> <p>13 Q. So are you saying that if -- for example,</p> <p>14 if I looked down here and I'm looking at log of boring</p> <p>15 No. EB-1 -- I'm still on Exhibit 6.</p> <p>16 A. Uh-huh.</p> <p>17 Q. And that first -- in the first notation I see</p> <p>18 in that sample column is U1.</p> <p>19 A. Uh-huh.</p> <p>20 Q. And does that mean the first sample you took?</p> <p>21 A. Yes, ma'am.</p> <p>22 Q. And U refers to what kind of sampling</p> <p>23 technique?</p> <p>24 A. It was a -- that was a tube.</p> <p>25 Q. A tube? And that's --</p>	45	<p>1 columns. There -- I mean, there's no analysis done,</p> <p>2 liquid limit, unit dry weight --</p> <p>3 Q. Uh-huh.</p> <p>4 A. -- moisture content, plasticity index or</p> <p>5 percent passing 200 or the unconfined strength. So</p> <p>6 apparently I sent the logs and the samples to the lab,</p> <p>7 and for these particular ones, if these were the final</p> <p>8 logs -- you said they came out of the thing --</p> <p>9 Q. Uh-huh.</p> <p>10 A. -- they didn't run tests on these.</p> <p>11 Q. Okay.</p> <p>12 A. But that -- that's what would happen, yes.</p> <p>13 Q. And so since they didn't run any other tests</p> <p>14 on these, is -- and you -- and the person that you deal</p> <p>15 with at Biggs and Mathews is Mike Snyder?</p> <p>16 A. One of the people, yes, ma'am.</p> <p>17 Q. One of the people?</p> <p>18 A. Uh-huh.</p> <p>19 Q. Who did you deal with with respect to these</p> <p>20 exploratory borings?</p> <p>21 A. Snyder and I -- I can't remember the engineer</p> <p>22 on this project. It might have been -- I don't know.</p> <p>23 Whoever the engineer was.</p> <p>24 Q. And the engineer --</p> <p>25 A. I mainly deal with Snyder, but yeah --</p>

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<p style="text-align: right;">46</p> <p>1 Q. Okay.</p> <p>2 A. -- one of the engineers -- field engineers. I</p> <p>3 don't --</p> <p>4 Q. Okay. And does it ever happen -- I'm trying</p> <p>5 to understand the -- the process. I understand that</p> <p>6 this is a little bit of an iterative process here --</p> <p>7 A. It is.</p> <p>8 Q. -- as you get from field log to --</p> <p>9 A. Final log.</p> <p>10 Q. -- the final log.</p> <p>11 A. Right.</p> <p>12 Q. And I'm trying to understand sort of the back</p> <p>13 and forth between you and Mike Snyder, whoever it is at</p> <p>14 Biggs and Mathews.</p> <p>15 So with this log where you're not doing</p> <p>16 any kind of testing, are you still -- are the samples</p> <p>17 still being used by Mike Snyder or whoever it is at</p> <p>18 Biggs and Mathews to, I guess, visually look at it and</p> <p>19 see whether they agree with your material description?</p> <p>20 A. They come out to the sites and I know they</p> <p>21 look at them in the lab, so yeah.</p> <p>22 Q. So I guess what I'm asking is, did you ever</p> <p>23 have a material description -- and it could be for these</p> <p>24 exploratory borings or for some of the other borings</p> <p>25 that you did for this particular project -- did you ever</p>	<p style="text-align: right;">48</p> <p>1 know, if something is on a fine line, I mean, I don't</p> <p>2 think I have a problem identifying a sand or a clay.</p> <p>3 Okay?</p> <p>4 Q. Right. I guess what I'm asking is who had the</p> <p>5 final say?</p> <p>6 A. Mike Snyder.</p> <p>7 Q. Okay.</p> <p>8 A. Mike Snyder has final say.</p> <p>9 Q. Okay. And would it be -- would they have to</p> <p>10 check with you first before changing the material</p> <p>11 description if they thought it was different than --</p> <p>12 A. No.</p> <p>13 Q. -- what the laboratory testing was coming up</p> <p>14 with or --</p> <p>15 A. No.</p> <p>16 Q. Okay.</p> <p>17 A. Would they have to check with me? No.</p> <p>18 Q. And did you have an opportunity to -- and I</p> <p>19 may have already asked you this. If I did, I'm sorry.</p> <p>20 Did you have an opportunity to check the</p> <p>21 final logs and compare them to your field logs?</p> <p>22 A. When I sent the final logs and they did all</p> <p>23 their testing --</p> <p>24 Q. Wait you just said "final logs." You mean --</p> <p>25 A. I mean, when I did the field log --</p>
<p style="text-align: right;">47</p> <p>1 have where you would send in a sample and you had a</p> <p>2 material description and Mike Snyder or somebody else</p> <p>3 came back and said, You know, instead of this "CLAY,</p> <p>4 silty, yellow and light brown, hard," as listed on EB-1,</p> <p>5 for example, I actually think it might be "CLAY, sandy,</p> <p>6 light brown, iron oxide staining." I think it might be</p> <p>7 something different.</p> <p>8 Did you ever have that kind of</p> <p>9 give-and-take process where you're talking about the</p> <p>10 materials descriptions?</p> <p>11 A. No. No.</p> <p>12 Q. So pretty much -- so for you, what you</p> <p>13 identified the material as, that's what went into the</p> <p>14 final log? Whatever you -- and let me just clarify.</p> <p>15 What you identified material as being a</p> <p>16 specific material as being in your field log, that's</p> <p>17 what ended up being in the final log as well, is that</p> <p>18 right?</p> <p>19 A. They might have changed it. I don't think we</p> <p>20 had a discussion. I mean, if they --</p> <p>21 Q. Okay.</p> <p>22 A. -- took a test -- if they tested a sandy clay</p> <p>23 and turned ought to be a clay sand, by the lab tests or</p> <p>24 by their observations, you know, I mean, lab tests</p> <p>25 definitely tell you what -- what a material is. You</p>	<p style="text-align: right;">49</p> <p>1 Q. Okay.</p> <p>2 A. -- they sent me a copy of the draft logs after</p> <p>3 the data was in and I looked at those. You know, I</p> <p>4 never saw the permit or the final final. I don't know</p> <p>5 what happened.</p> <p>6 Q. And the draft logs that they sent you, is this</p> <p>7 what they sent you, this -- basically this -- what's in</p> <p>8 Exhibit 6 for these six borings? Did they look like</p> <p>9 this? Was it in this form?</p> <p>10 A. The final logs?</p> <p>11 Q. Yes. The draft logs that they sent you for</p> <p>12 your review?</p> <p>13 A. Yes, ma'am.</p> <p>14 Q. Okay. So in other words --</p> <p>15 A. "In this form" meaning this format?</p> <p>16 Q. This format.</p> <p>17 A. Yes.</p> <p>18 Q. Yeah. So you -- so in other words, you have</p> <p>19 reviewed -- or maybe -- or I don't want to put words in</p> <p>20 your mouth.</p> <p>21 Do you feel pretty confident that you have</p> <p>22 reviewed -- if these were the final final ones, that</p> <p>23 you've reviewed the final final ones prior to this</p> <p>24 deposition, or if you just don't know?</p> <p>25 A. Don't know.</p>

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<p style="text-align: right;">50</p> <p>1 Q. Okay. And you said before that -- and we can 2 go back, actually. Let's go back to -- actually, I 3 don't think we have that yet. 4 When you took the -- okay. 5 So you don't remember when you -- how -- 6 the method that you utilized to take the water levels in 7 these bore holes, is that right? 8 A. It was a tape measure, but I don't -- yeah. 9 Q. Okay. Is a tape measure the same thing as an 10 E line or -- you're going to have to explain the real 11 basic stuff for me because I -- 12 A. No. You know -- 13 Q. -- I don't know anything about this. 14 A. I probably didn't -- I probably didn't drop an 15 electronic tape measure down an open hole. I probably 16 used a tape measure with a plonker on it, you know. 17 Q. Okay. And did you -- we talked before about 18 how it looks like with each one of these, EB-1 through 19 EB-6 -- 20 A. Uh-huh. 21 Q. -- that you used -- at some point you started 22 with the dry augering -- 23 A. Uh-huh. 24 Q. -- and then you had to switch to the wet 25 rotary, is that right?</p>	<p style="text-align: right;">52</p> <p>1 A. Uh-huh. 2 Q. -- that were 36 in number. 3 A. Uh-huh. 4 Q. That's right? 5 A. Uh-huh. I believe so. Uh-huh. 6 Q. And then you also had a number of 7 piezometers -- 8 A. Piezometers. 9 Q. -- that you created and I think there were -- 10 do you recall how many of those there were? 11 A. 15 maybe. I don't -- 12 Q. And did you at any point, talking with 13 Mike Snyder or anyone else -- did anyone consider making 14 those initial bore holes -- any of those initial bore 15 holes into the piezometers or what -- do you know what 16 I'm saying? 17 A. No. 18 Q. So if you're going to create or install a 19 piezometer -- 20 A. Yes, ma'am. 21 Q. -- you first have to drill a hole, right? 22 A. Correct. 23 Q. So if you have a bore hole, you can go one of 24 two ways in that context. One, you can drill the bore 25 hole and plug it, or two, you can drill the bore hole</p>
<p style="text-align: right;">51</p> <p>1 A. Yes. 2 Q. And when you were taking the water levels that 3 we see in these logs in Exhibit 6, did you leave the 4 portion of the drilling apparatus, the stem, in the bore 5 hole? 6 A. No. 7 Q. Okay. So you took the solid stem auger -- 8 A. The rods and the bit. 9 Q. -- the rods and the bit -- 10 A. Uh-huh. 11 Q. -- out. And then did you allow the bore hole 12 to sit there for a while before you took the water level 13 measurement? 14 A. No. We pulled them out and took a reading. 15 Q. Okay. Now, I know that -- and so I'm going to 16 talk about this project. As I look at it, it's sort of 17 in three phases, and if you look at it differently, just 18 let me know. But for convenience sake, it seems to me, 19 from what I know about your involvement, that you first 20 drilled six exploratory bore holes, which we've been 21 talking about in Exhibit 6 -- 22 A. Uh-huh. 23 Q. -- correct? 24 And then you had a series of other borings 25 that you drilled --</p>	<p style="text-align: right;">53</p> <p>1 and create a piezometer, correct? 2 A. You could. 3 Q. Okay. For those initial 36 borings, did you 4 turn any of those initial 36 borings into a piezometer? 5 A. They were grouted upon completion. 6 Q. Okay. So no? 7 A. No. 8 Q. Did you ever discuss with anyone turning any 9 of those initial 36 instead of grouting them upon 10 completion -- 11 A. No. 12 Q. I was going to finish my question. 13 A. Okay. Go ahead. 14 Q. So you did not discuss with anybody turning 15 any of those initial six into a piezometer? 16 A. No. 17 MS. NICHOLS: You said 6 or 36? 18 Q. (BY MS. JACOBS) Sorry. I -- 19 A. Six. 20 Q. I said -- I should have said -- I meant 36 21 instead of 6. I -- 22 A. Oh. 23 Q. And I should clarify that because I may have 24 been doing that all along. The -- 25 MS. JACOBS: Thank you, Diana.</p>

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<p style="text-align: right;">54</p> <p>1 Q. (BY MS. JACOBS) The -- when I'm talking about 2 turning -- well, we can ask about -- 3 For the initial EB-1 through EB-6, did you 4 talk with anybody about turning any of those borings 5 into piezometers? 6 A. No. 7 Q. Did you -- you're going to throw me off if 8 you -- 9 A. No. I'm sorry. 10 Q. -- nod at the time that you -- 11 A. Yeah. Sorry. 12 Q. And again, just be patient. Okay? 13 A. Yeah. No. I -- 14 Q. These may be very obvious questions and 15 answers to you, but that's because you know them. 16 A. Okay. 17 Q. Right? 18 A. Yeah. 19 Q. And I'm not asking them to irritate you. I 20 promise. 21 A. No, no. I'm -- I'm not irritated. Just -- 22 Q. Okay. 23 A. It's like pulling teeth. Okay. 24 Q. It is. 25 A. Yeah.</p>	<p style="text-align: right;">56</p> <p>1 the time. Maybe a guy named John Vallier I think was 2 working for me. 3 Q. And what was his role in this project -- this 4 portion of the project? 5 A. Field hand. I mean -- 6 Q. Okay. 7 A. -- you know, he's just a roughneck. 8 Q. Okay. So he would be assisting you how? 9 A. Shovelling dirt. 10 Q. And so you were the one running the rig? 11 A. I think so. 12 Q. I'm going to hand you another document that 13 is -- we're going to label Exhibit 7. 14 (Exhibit 7 marked) 15 Q. (BY MS. JACOBS) And I'm going to ask you to 16 take a moment to review that and refresh your memory. 17 MS. JACOBS: And we can go off the record 18 while he does that. 19 THE WITNESS: All right. 20 (Recess from 12:12 p.m. to 12:17 p.m.) 21 Q. (BY MS. JACOBS) And as you are looking at 22 what has been marked Exhibit 7, can you identify that 23 for me, please? 24 A. Yes. That was a proposal I gave to 25 Mike Snyder.</p>
<p style="text-align: right;">55</p> <p>1 Q. I feel that way too. 2 A. Yeah. 3 Q. So going to the 36 bore holes then, did 4 anyone -- which were not exploratory ones, but the ones 5 that you did after the exploratory ones on the Marengo 6 tract -- did anybody talk to you about turning any of 7 those into piezometers? 8 A. No. 9 Q. Okay. Do you realize that you nod yes when 10 you're actually saying no? 11 A. Yes. (Nodding negatively at same time.) 12 Q. And you mentioned before that you had visits 13 from people with Biggs and Mathews to the field? 14 A. Uh-huh. 15 Q. Did anybody from Biggs and Mathews come out to 16 the Marengo tract when you were drilling the first six 17 exploratory bore holes? 18 A. No. 19 Q. And who else was present in the field with you 20 for the drilling of these first six exploratory bore 21 holes? 22 A. Who like employees? 23 Q. Sure. Whoever was out there that was with you 24 at the time. 25 A. I'm trying to remember who worked for me at</p>	<p style="text-align: right;">57</p> <p>1 Q. So it is a proposal -- and you -- did you 2 draft this proposal? 3 A. I did. 4 Q. And it is regarding what? 5 A. Drilling of the geotechnical borings, 6 piezometer installation, water level measurements and 7 slug test -- 8 Q. And -- 9 A. -- for this project. 10 Q. Okay. And when you are referring to the 11 geotechnical borings, is that the same as the 36 borings 12 that we were referring to sort of Phase II of this 13 project? 14 A. 36. Uh-huh. 15 Q. So let's just look at Page 1 of this. 16 A. Okay. 17 Q. And actually, first let me ask you. 18 Did you draft any other proposals 19 regarding this -- what we're talking about here, the 20 drilling of these, as you were calling them, 21 geotechnical bore holes, the piezometer installation, 22 water levels? 23 A. Any other proposals? 24 Q. Any other proposals or e-mails between you and 25 Mike Snyder or anyone else at Biggs and Mathews that you</p>

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58	<p>1 recall --</p> <p>2 A. No, I don't recall.</p> <p>3 Q. -- regarding this subject?</p> <p>4 A. I don't recall.</p> <p>5 Q. Okay. Let's start with Page 1.</p> <p>6 A. Okay.</p> <p>7 Q. And the second bullet on Page 1 you say,</p> <p>8 "Please have the surveyors provide us with" -- and it</p> <p>9 says "coordinated," but I think --</p> <p>10 A. Yeah. It should be "coordinates."</p> <p>11 Q. Okay. "Coordinates."</p> <p>12 And so what do you -- what did you mean by</p> <p>13 that?</p> <p>14 A. They were going to survey the locations, --</p> <p>15 those locations.</p> <p>16 Q. The locations for the 36 --</p> <p>17 A. 36 borings.</p> <p>18 Q. -- borings? Okay.</p> <p>19 And just so that we have this in time</p> <p>20 sequence, this is after the drilling of the EB-1 through</p> <p>21 EB-6 exploratory borings, correct?</p> <p>22 A. Correct.</p> <p>23 Q. Okay. And so were you present when the</p> <p>24 surveyors did that -- or let me ask you, did the</p> <p>25 surveyors actually go out and survey the locations of</p>	60	<p>1 the column -- we've got several columns here. I'm</p> <p>2 looking at the second one from the left which appears to</p> <p>3 be Ground Elevation, is that right?</p> <p>4 A. Correct.</p> <p>5 Q. And did they provide you with the ground</p> <p>6 elevation numbers?</p> <p>7 A. They did.</p> <p>8 Q. And the ground elevation numbers, is that --</p> <p>9 does that relate to above mean sea level? Is that what</p> <p>10 you --</p> <p>11 A. Natural ground elevation, no. It's above mean</p> <p>12 sea level.</p> <p>13 Q. Okay. And when you went out and -- so you</p> <p>14 received this information. Then you go out to the</p> <p>15 field.</p> <p>16 How do you locate --</p> <p>17 A. There's a stake in the ground.</p> <p>18 Q. -- these bore hole locations?</p> <p>19 Okay. So they put a stake in the ground.</p> <p>20 (Sotto voce discussion between</p> <p>21 Ms. Nichols and Ms. Jacobs)</p> <p>22 MS. JACOBS: Yeah.</p> <p>23 Q. (BY MS. JACOBS) You know, and --</p> <p>24 A. What?</p> <p>25 Q. I'm sorry. She was just reminding me if you</p>
59	<p>1 the 36 borings?</p> <p>2 A. They did.</p> <p>3 Q. Okay. And do you recall what methodology they</p> <p>4 used in doing that?</p> <p>5 A. I don't.</p> <p>6 Q. Okay. And so just so I understand this</p> <p>7 process, the surveyors provide you with what type of</p> <p>8 information? Is it latitude and longitudes for each</p> <p>9 boring or what form do they provide you this</p> <p>10 information?</p> <p>11 A. I provided y'all with a sheet.</p> <p>12 Q. Okay. And we can certainly go through that.</p> <p>13 Is this the sheet you're referring to?</p> <p>14 A. Yeah.</p> <p>15 Q. Okay. Great. We will mark this Exhibit 8.</p> <p>16 (Exhibit 8 marked)</p> <p>17 Q. (BY MS. JACOBS) Okay. And so what has been</p> <p>18 marked Exhibit 8, can you identify this document, kind</p> <p>19 of tell me what it -- what I'm looking at here?</p> <p>20 A. This is the coordinates that the surveyors</p> <p>21 gave me for the locations that they surveyed.</p> <p>22 Q. And is this the document that they provided</p> <p>23 you?</p> <p>24 A. I believe so.</p> <p>25 Q. Okay. And did the surveyors then also take</p>	61	<p>1 could let me finish my question --</p> <p>2 A. I'm sorry.</p> <p>3 Q. -- first. No, that's okay. It's just</p> <p>4 difficult for the court reporter to capture all of that.</p> <p>5 THE WITNESS: I'm sorry. I'm sorry.</p> <p>6 MS. NICHOLS: Smart people make that</p> <p>7 mistake all the time.</p> <p>8 MS. JACOBS: That's right.</p> <p>9 THE WITNESS: I'm sorry.</p> <p>10 Q. (BY MS. JACOBS) Okay. So the -- I think you</p> <p>11 were saying that the way that you found these locations</p> <p>12 in the field was because the surveyor had marked them</p> <p>13 with stakes, is that correct?</p> <p>14 A. Yes.</p> <p>15 Q. Thank you.</p> <p>16 And were any of the stakes -- I noticed</p> <p>17 you mentioned in Exhibit 7 that the cows will knock down</p> <p>18 the stakes and eat the flagging.</p> <p>19 Did you have any issues with that with</p> <p>20 respect to these 36 locations?</p> <p>21 A. No. I asked the -- Mike Snyder to have the</p> <p>22 surveyors put a metal T post in addition to the stakes.</p> <p>23 Q. Smart.</p> <p>24 And when you were out there -- so you had</p> <p>25 the stakes out there.</p>

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62	<p>1 Did you verify or take any elevation 2 measurements yourself? 3 A. I don't have the ability to take elevations, 4 no. 5 Q. And is that just because you don't have the 6 equipment? 7 A. I'm not a surveyor. 8 Q. Okay. Let's go back to Exhibit 7 -- 9 A. Uh-huh. 10 Q. -- which is your proposal -- February 25th, 11 2011, proposal. 12 A. Uh-huh. 13 Q. And again, I'm using a copy that was produced 14 to us by the applicant and that's why you see those 15 numbers at the bottom, 1249 through 1251. 16 A. Uh-huh. 17 Q. You mentioned "The cost includes securing of 18 water off-site," is that right? 19 A. Uh-huh. 20 Q. I'm still on Page 1. 21 A. Yes, ma'am. 22 Q. And where did you secure water from for 23 purposes of these borings? 24 A. We purchased it from the -- I can't remember 25 the name of the place. It was on the highway somewhere.</p>	64	<p>1 Q. Yeah, that would be great. 2 A. Hawthorne Park Landfill, Atascosita Landfill, 3 Baytown Landfill, Coastal Plains Landfill, Blue Ridge 4 Landfill, Galveston County Landfill, Cougar Landfill, 5 Fairbanks North Houston Landfill, Conroe Landfill, 6 Security Landfill, Whispering Pines Landfill, Newton 7 County Landfill. I should have written them down. 8 Greenhouse Road Landfill, Green Shadows Landfill, 9 Addicks-Fairbanks, Sprint Fort Bend County Landfill. 10 Q. And are these all Texas landfills? 11 A. Yeah. These are the ones in the Houston area. 12 Q. Okay. And just -- 13 A. So -- yeah. Go ahead. 14 Q. Well, I was going to ask you to clarify. 15 These are -- so for all the ones you've mentioned you 16 have done the -- and I'm not sure what you would 17 characterize this as, but the borings that are done to 18 characterize the subsurface of these planned or proposed 19 sites. 20 Is that how you would characterize the 21 projects that you're talking about? 22 A. Yes. 23 Q. And for all of the -- you know, we just talked 24 about the fact that the Exhibit 7 proposal includes 25 several different components. You've got the 36 borings</p>
63	<p>1 We purchased water. 2 Q. And was it -- when you say "on the highway," 3 was this -- 4 A. Some -- some business. 5 Q. A business that sells water? 6 A. Yeah. We bought water from a guy. Yeah. I 7 don't think he was in the water selling business. 8 Q. Did you do any water quality testing of the 9 water that you purchased from this business -- 10 A. Lab testing? No. 11 Q. -- off the highway? 12 A. No. 13 Q. Well, even -- or even any kind of testing -- 14 A. No. 15 Q. -- maybe in the field? 16 A. No. No. 17 Q. And have you ever done -- the kind of project 18 that is laid out in Exhibit 7 where you are doing this 19 geotechnical drilling -- well, let me start with 20 geotechnical drilling. 21 Have you ever done that for any other 22 proposed landfill site? 23 A. Yes. 24 Q. And do you recall which sites those were? 25 A. Yeah. Do you want to start in Houston?</p>	65	<p>1 drilling. 2 A. Uh-huh. 3 Q. You've got the piezometer installation. 4 A. Uh-huh. 5 Q. You've got the water levels and you've got the 6 slug test. 7 A. Uh-huh. 8 Q. And so for each of the ones that you are 9 referring to, did you do all of these components at each 10 ones of the sites that you were just listing? For 11 example -- 12 A. I don't know about all, but most, yeah. 13 Q. Okay. So for most of them, you did the 14 borings, the piezometer installation, water levels and 15 slug tests? 16 A. Yeah. 17 Q. Majority of them? 18 A. Majority. 19 Q. Okay. And those were just the landfills 20 projects that you -- that were located in the Houston 21 area, is that right? 22 A. That I can remember. 23 Q. That you can remember. 24 So there may be more in the Houston area? 25 A. Yeah.</p>

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<p style="text-align: right;">66</p> <p>1 Q. Okay. And then presumably -- and you work all 2 over the state of Texas?</p> <p>3 A. Yes, ma'am.</p> <p>4 Q. Okay. And do you -- generally, who do you 5 work for? Who is your client generally?</p> <p>6 A. Engineering firms.</p> <p>7 Q. Engineering firms.</p> <p>8 Do you work with Biggs and Mathews quite a 9 bit?</p> <p>10 A. I do.</p> <p>11 Q. Okay. Can you estimate how many of these 12 preliminary geological investigations you have completed 13 for Biggs and Mathews?</p> <p>14 A. No. I don't know.</p> <p>15 Q. Do you think more than ten?</p> <p>16 A. Oh, yes.</p> <p>17 Q. Okay. More than 20?</p> <p>18 A. Yeah.</p> <p>19 Q. Okay. And going back to Exhibit 7 -- and I 20 keep calling this sort of a -- the preliminary 21 hydrogeological -- I don't even know what you want to 22 call this.</p> <p>23 What do you refer to what you're proposing 24 in Exhibit 7? What do you call this sort of 25 investigation? Just a preliminary site investigation?</p>	<p style="text-align: right;">68</p> <p>1 Q. Did you utilize more than two rigs?</p> <p>2 A. Different rigs?</p> <p>3 Q. No. No. I'm -- well, yeah, I guess -- I 4 guess more than two rigs. More than two rig operators. 5 I'm not so concerned about the equipment.</p> <p>6 So did you have more than two rigs out 7 there at one time?</p> <p>8 A. No.</p> <p>9 Q. Okay. And with respect to Task 1, again, did 10 you actually end up using two geologists? I'm presuming 11 that you were one of the geologists, is that right?</p> <p>12 A. Yes.</p> <p>13 Q. And did you use a second geologist?</p> <p>14 A. Yes.</p> <p>15 Q. And who was the second geologist?</p> <p>16 A. Her name was Krystal. She was one of my 17 employees. Nichols.</p> <p>18 Q. And do you -- I guess can you give me some 19 idea of Krystal's level of expertise.</p> <p>20 Has she been -- is she a qualified 21 geoscientist?</p> <p>22 A. She was a, you know, field geologist in 23 training. I don't think she had her P.G. when she left 24 our firm. She, you know, was -- you know, she was 25 educated in geology.</p>
<p style="text-align: right;">67</p> <p>1 A. Yeah.</p> <p>2 Q. Okay. I'm just trying to figure out what I 3 can call it so that you'll know what I'm talking about 4 without going through this lengthy--</p> <p>5 A. Just say the proposal.</p> <p>6 Q. The proposal. Okay.</p> <p>7 So are you saying in this proposal that 8 the cost -- and I'm still on Page 1 --</p> <p>9 A. Uh-huh.</p> <p>10 Q. -- of Exhibit 7 -- the cost includes two field 11 geologists?</p> <p>12 A. Uh-huh.</p> <p>13 Q. Did you actually end up -- well, I guess we 14 can just go through the tasks on Page --</p> <p>15 A. Uh-huh.</p> <p>16 Q. -- 2. So looking at Task 1 --</p> <p>17 A. Uh-huh.</p> <p>18 Q. -- which says, "Drill and sample 36 19 borings" -- and these are the 36 borings that we've been 20 talking about for a while now?</p> <p>21 A. Yes, ma'am.</p> <p>22 Q. And it says here that you were planning on or 23 proposing to utilize two rigs.</p> <p>24 Did you, in fact, utilize two rigs?</p> <p>25 A. Yes, ma'am.</p>	<p style="text-align: right;">69</p> <p>1 Q. But you don't think that she was a registered 2 geoscientist?</p> <p>3 A. No, I know she wasn't at the time.</p> <p>4 Q. She wasn't at the time?</p> <p>5 A. She wasn't at the time.</p> <p>6 Q. Okay.</p> <p>7 MS. JACOBS: We're going to take a break 8 off the record.</p> <p>9 (Recess from 12:34 p.m. to 12:35 p.m.)</p> <p>10 Q. (BY MS. JACOBS) Okay. We're still on 11 Exhibit 7.</p> <p>12 A. Uh-huh.</p> <p>13 Q. And you were saying that Krystal Nichols, who 14 was working with you at the time, was the second 15 geologist that was mentioned in this proposal with 16 respect to Task No. 1?</p> <p>17 A. Yes, ma'am.</p> <p>18 Q. And under the last bullet under Task 1, you 19 have "Delivery of samples to Mansfield."</p> <p>20 And who is or what is Mansfield?</p> <p>21 A. That's where Snyder's office is, Biggs and 22 Mathews.</p> <p>23 Q. So that means delivering to Biggs and 24 Mathews -- delivering the samples to Biggs and Mathews?</p> <p>25 A. We physically took them up there. Uh-huh.</p>

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70	<p>1 Q. Great.</p> <p>2 And do you know what tests were going to</p> <p>3 be performed on those samples?</p> <p>4 A. What tests?</p> <p>5 Q. Yes.</p> <p>6 A. No.</p> <p>7 Q. So in other words, when you were taking the</p> <p>8 samples, you didn't know the purpose of the samples?</p> <p>9 A. No. Do I know what -- what kind of tests they</p> <p>10 were going to take?</p> <p>11 Q. Yes.</p> <p>12 A. Yes.</p> <p>13 Q. What kind of tests?</p> <p>14 A. Classification tests.</p> <p>15 Q. Classification tests. Okay.</p> <p>16 Anything --</p> <p>17 A. I don't know what -- which ones they were</p> <p>18 going to test, but I know that -- what they were going</p> <p>19 to test for.</p> <p>20 Q. Got it.</p> <p>21 Any other types of tests that you</p> <p>22 understood were going to be conducted on the samples</p> <p>23 from these 36 borings?</p> <p>24 A. No.</p> <p>25 Q. Okay. Do you want -- actually, do you want us</p>	72	<p>1 depths?</p> <p>2 A. Yeah. They said, Estimate this at this and</p> <p>3 this at this.</p> <p>4 Q. Okay.</p> <p>5 A. We have to have some idea. So yeah.</p> <p>6 Q. No. And I totally understand that. What</p> <p>7 was confusing me is that you said before that you</p> <p>8 drafted this. And so I'm -- what I'm trying to</p> <p>9 determine is what parts of this did you come up with</p> <p>10 and what parts, I guess, did Mike Snyder or someone</p> <p>11 else come up with. And I think what I heard you just</p> <p>12 say is that Mike Snyder gave you the parameters and</p> <p>13 said, What we were looking for in your estimate is</p> <p>14 12 piezometers at 80 feet and 12 piezometers at 50 feet.</p> <p>15 Is that what you recall?</p> <p>16 A. I think so. Uh-huh.</p> <p>17 Q. If Mike Snyder didn't give you those numbers,</p> <p>18 is there anybody else that would have given you those</p> <p>19 numbers?</p> <p>20 A. No. And I didn't make them up. It had to</p> <p>21 come from Snyder.</p> <p>22 Q. Okay. And again on Task 2 --</p> <p>23 A. Uh-huh.</p> <p>24 Q. -- when -- it says second bullet, "(2)</p> <p>25 geologist logging boreholes."</p>
71	<p>1 to get you like a Kleenex?</p> <p>2 A. Yeah. This -- no, I think I'm okay.</p> <p>3 Q. Seems kind of rough. Okay.</p> <p>4 A. I felt like I got something in my eye, but --</p> <p>5 Q. It looks a little red.</p> <p>6 A. It's a little red?</p> <p>7 Q. Yeah.</p> <p>8 A. Yeah.</p> <p>9 Q. Okay. Well, just let us know. You don't have</p> <p>10 to use the napkins.</p> <p>11 So let's move on to Task 2. I'm still on</p> <p>12 Page 2.</p> <p>13 A. Uh-huh.</p> <p>14 Q. And it looks like you've got -- it says,</p> <p>15 "Drilling and installations of 24 piezometers will</p> <p>16 consist of twelve (12) at 80', twelve (12) at 50'."</p> <p>17 Is that right?</p> <p>18 A. Uh-huh.</p> <p>19 Q. Okay. And why did you suggest drilling 12 at</p> <p>20 80 feet and 12 at 50 feet?</p> <p>21 A. I didn't suggest it.</p> <p>22 Q. Okay. I --</p> <p>23 A. They gave me parameters and I gave them cost</p> <p>24 for those parameters.</p> <p>25 Q. So Mike Snyder gave you the numbers, these</p>	73	<p>1 A. Mistake.</p> <p>2 Q. Okay. And so was there only one geologist</p> <p>3 logging the bore holes?</p> <p>4 A. Yes, ma'am.</p> <p>5 Q. And that was you?</p> <p>6 A. Me. Yes, ma'am.</p> <p>7 Q. Okay. And so what did Krystal -- was Krystal</p> <p>8 also present during Task 2 and the piezometer</p> <p>9 installations?</p> <p>10 A. She was probably present, yes, ma'am.</p> <p>11 Q. Okay. And so what was her role in the field?</p> <p>12 A. Assisting me.</p> <p>13 Q. Can you be more specific? In other words, how</p> <p>14 would she typically assist you or how did she assist you</p> <p>15 in this project, in drilling and sampling the 36 bore</p> <p>16 holes, for example?</p> <p>17 A. She was behind one rig and I was behind the</p> <p>18 other one.</p> <p>19 Q. And when you say "behind one rig" --</p> <p>20 A. Yeah. She was -- you know, they were drilling</p> <p>21 and we were drilling.</p> <p>22 Q. Okay. So -- and what does that mean? What do</p> <p>23 you do when you're behind the rig? Somebody is --</p> <p>24 somebody is running the rig, presumably?</p> <p>25 A. Correct. Uh-huh.</p>

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<p style="text-align: right;">74</p> <p>1 Q. And that's somebody different than the 2 geologist?</p> <p>3 A. In this case, yes. At times it's not. At 4 times it's not. I'll -- I may do both. But in this 5 particular one, no. We had a subcontracted driller 6 because I had two rigs going.</p> <p>7 Q. Got it.</p> <p>8 And so why would you -- why would you 9 follow or stay with a rig in the field? In other words, 10 why do they -- why do you not just send a rig off to 11 drill something without a geologist with the rig, or 12 maybe you do?</p> <p>13 A. We're collecting samples.</p> <p>14 Q. Ah, okay.</p> <p>15 So with one rig -- and again, I'm still 16 talking about the 36 borings.</p> <p>17 A. Uh-huh.</p> <p>18 Q. So with one rig, you were with one rig 19 collecting samples and then Krystal Nichols was with the 20 other rig collecting samples?</p> <p>21 A. Correct.</p> <p>22 Q. Okay. Now, with Task 2, however, you're 23 saying that -- was she not out there with -- I guess 24 maybe you didn't have two rigs with --</p> <p>25 A. We had one rig. She was --</p>	<p style="text-align: right;">76</p> <p>1 where you got, that kind of thing.</p> <p>2 A. I don't know who made it. I know who I bought 3 it from.</p> <p>4 Q. And who did you buy it from?</p> <p>5 A. A supplier in Houston. Gulf Coast Monitoring.</p> <p>6 Q. Okay. And it looks like here that -- what is 7 this ".010 screen slot"? What does that mean?</p> <p>8 A. That's the slot size of the screen.</p> <p>9 Q. Slot size of the screen. Okay.</p> <p>10 And why did you choose that particular 11 slot size, or did you choose it?</p> <p>12 A. Just from experience knowing that -- that in 13 the area that it would work.</p> <p>14 Q. So in the Houston area, experience has told 15 you --</p> <p>16 A. Surrounding, yeah.</p> <p>17 Q. -- that .01 slot size is appropriate?</p> <p>18 A. Yeah.</p> <p>19 Q. And how do you -- what are the factors that go 20 into choosing a screen slot size or another way of 21 saying it is what factors do you consider? How do you 22 know that that's going to work and what do you mean by 23 "work"?</p> <p>24 A. Your filter sand and your slot size are going 25 to try to keep the fines out to make sure that this well</p>
<p style="text-align: right;">75</p> <p>1 Q. One rig?</p> <p>2 A. She was on site, but we had one rig.</p> <p>3 Q. And were you with that rig?</p> <p>4 A. Yes, ma'am.</p> <p>5 Q. Continuously?</p> <p>6 A. Continuously.</p> <p>7 Q. Okay. So still with Task 2 --</p> <p>8 A. Uh-huh.</p> <p>9 Q. -- moving steadily through, you are talking 10 about in the third bullet here the piezometer materials 11 and you mentioned the screen.</p> <p>12 A. Uh-huh.</p> <p>13 Q. And -- and actually, let me ask you first --</p> <p>14 A. Okay.</p> <p>15 Q. You know, we had these -- going back up to the 16 24 proposed piezometers, you actually didn't end up 17 doing 24, is that right?</p> <p>18 A. I can't remember what the number was.</p> <p>19 Q. Okay. Well, we'll get to --</p> <p>20 A. Yeah.</p> <p>21 Q. We'll get to that later.</p> <p>22 A. Yeah.</p> <p>23 Q. Okay. So going back to the screen, do you 24 know what screen was used? And when I mean what screen, 25 I'm referring to, you know, specifics like who made it,</p>	<p style="text-align: right;">77</p> <p>1 doesn't get silted in. So, you know, it -- it works. 2 So, I mean, it's just from experience we know that it 3 will keep the silt out.</p> <p>4 Q. Okay. And so you are the one that picked the 5 slot size?</p> <p>6 A. Yes, ma'am.</p> <p>7 Q. Okay.</p> <p>8 A. Yes, ma'am.</p> <p>9 Q. And what size were the screens?</p> <p>10 A. Length?</p> <p>11 Q. Yes.</p> <p>12 A. I can't remember.</p> <p>13 Q. Do you -- and we can look at some of the 14 boring logs later when we talk about this. But do you 15 remember -- I mean, what kind of factors do you consider 16 when choosing a screen size -- screen length?</p> <p>17 A. I didn't -- you know, I didn't --</p> <p>18 Q. Or I guess I should ask you, did you pick the 19 screen length in this instance?</p> <p>20 A. No.</p> <p>21 Q. Okay. And so who picked the screen --</p> <p>22 A. Snyder.</p> <p>23 Q. Okay. And did you use the same screen -- and 24 I mean, like -- by same screen, I mean same slot size, 25 same length for all of the --</p>

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<p>1 A. I don't remember.</p> <p>2 Q. Okay.</p> <p>3 A. Yeah. I don't remember.</p> <p>4 Q. What does this mean -- I'm looking at the same</p> <p>5 line on Exhibit 7 -- "20/40 sand"?</p> <p>6 A. Uh-huh.</p> <p>7 Q. What does that mean?</p> <p>8 A. It's the grade of the sand.</p> <p>9 Q. The grade of the sand. Okay.</p> <p>10 And what do you do with the sand?</p> <p>11 A. It's a filter media that goes in the bore hole</p> <p>12 to prevent fines from coming in the well.</p> <p>13 Q. Okay. And then on the next bullet down, you</p> <p>14 say, "Development to 5.0 NTU's."</p> <p>15 A. Uh-huh.</p> <p>16 Q. What does that mean?</p> <p>17 A. NTU's is a clarity of the water. So we -- we</p> <p>18 develop the well, purge water out of it until it got a</p> <p>19 clarity below 5.0.</p> <p>20 Q. And how did you measure that clarity?</p> <p>21 A. With a turbidity meter.</p> <p>22 Q. And do you -- can you recall what meter you</p> <p>23 used, what the brand was?</p> <p>24 A. Probably Hach, H-A-C-K (sic).</p> <p>25 Q. And did you -- do you recall whether you were</p>	<p>1 on -- these are like template. That's why there's</p> <p>2 mistakes in it. These are template, like, proposals.</p> <p>3 Q. Okay.</p> <p>4 A. So I'm filling stuff in. So if -- you know,</p> <p>5 in this particular case, I didn't do an installation</p> <p>6 report. All I did was the -- I provided them with</p> <p>7 as-builts and water well drillers' logs.</p> <p>8 Q. Got it.</p> <p>9 And those are again those field logs you</p> <p>10 were referring to?</p> <p>11 A. No.</p> <p>12 Q. No. Okay.</p> <p>13 So for the piezometers you did the water</p> <p>14 well driller logs?</p> <p>15 A. Correct.</p> <p>16 Q. Okay. Okay. Moving down to Task 3 --</p> <p>17 A. Uh-huh.</p> <p>18 Q. -- the monthly water level measurements.</p> <p>19 A. Uh-huh.</p> <p>20 Q. And what's your understanding of why you were</p> <p>21 taking monthly water level measurements for a period of</p> <p>22 one year?</p> <p>23 A. Establish seasonal high and seasonal low water</p> <p>24 level.</p> <p>25 Q. She's not going to know either, I can</p>
79	81
<p>1 able to develop to 5.0 NTUs for each of the piezometers</p> <p>2 that you ultimately --</p> <p>3 A. Yes.</p> <p>4 Q. -- developed?</p> <p>5 Going back now to the next bullet --</p> <p>6 A. Uh-huh.</p> <p>7 Q. -- the -- when we're talking about the surface</p> <p>8 completions here, you have "gravel fill casings."</p> <p>9 What are those?</p> <p>10 A. Gravel fill casings are the upright protective</p> <p>11 casings. I put gravel in them to keep the PVC in the</p> <p>12 center.</p> <p>13 Q. Okay. And so this is -- is this in the --</p> <p>14 this is outside the --</p> <p>15 A. Above ground.</p> <p>16 Q. It's above ground. Got it.</p> <p>17 Okay. So this is talking about the</p> <p>18 surface completion. Got it.</p> <p>19 And then moving down to the last bullet on</p> <p>20 Task 2, you say, "Installation report for piezometers,"</p> <p>21 and in parentheses "factual report."</p> <p>22 What are you referring to there?</p> <p>23 A. They did that.</p> <p>24 Q. Who did what?</p> <p>25 A. Snyder did it. I -- all I did was do the logs</p>	<p>1 guarantee you.</p> <p>2 Okay. And so looking at Task 4, here</p> <p>3 we've got -- it says, "We will test a maximum of (8)</p> <p>4 piezometers."</p> <p>5 And is this again just part of the form or</p> <p>6 is that something that was designed for this particular</p> <p>7 project?</p> <p>8 A. You know all these are estimates, right?</p> <p>9 Q. Right. Right. And so we're talking about</p> <p>10 this, but then I'm also asking you questions about what</p> <p>11 you actually did in the field.</p> <p>12 A. This was the estimate. I can't remember how</p> <p>13 many we did in the field.</p> <p>14 Q. Okay. No. We can -- you don't have to and we</p> <p>15 can go over that later.</p> <p>16 A. Yeah.</p> <p>17 Q. I guess what I want to know is how did you --</p> <p>18 did you come up with that number eight or did someone</p> <p>19 else come up with the number?</p> <p>20 A. Snyder gave me parameters and I came up with a</p> <p>21 proposal.</p> <p>22 Q. Okay. And again, "parameters" is sort of a</p> <p>23 vague term. And that's why I'm asking you in detail</p> <p>24 what information he gave you and what he didn't. And so</p> <p>25 did he give you that number eight or did you come up</p>

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82	<p>1 with that on your own?</p> <p>2 A. He gave me the number.</p> <p>3 Q. Okay. And did you discuss in the context</p> <p>4 of this proposal as you were discussing this with</p> <p>5 Mike Snyder, did you discuss how those eight piezometer</p> <p>6 readings would be taken, at what locations they would be</p> <p>7 taken? And here's what I'm trying to figure out.</p> <p>8 Under Task 2, Snyder, you said, gave you</p> <p>9 the parameter of 24 piezometers, 12 at 80 feet and 12 at</p> <p>10 50 feet, correct?</p> <p>11 A. Uh-huh.</p> <p>12 Q. And then Snyder under Task 4 gave you the</p> <p>13 parameter of eight piezometers.</p> <p>14 Did you talk to him about which eight</p> <p>15 piezometers you would be doing the slug tests on? For</p> <p>16 example, four that were at 12 feet and four that were at</p> <p>17 50 feet, did you discuss how that would be split among</p> <p>18 the piezometers at all?</p> <p>19 A. No.</p> <p>20 Q. Okay. I'm going to give you another</p> <p>21 exhibit --</p> <p>22 A. Uh-huh.</p> <p>23 Q. -- which will be Exhibit 8.</p> <p>24 THE REPORTER: 9.</p> <p>25 MS. JACOBS: 9.</p>	84	<p>1 Q. And actually, I'm going to ask you to take a</p> <p>2 look at this in more detail and see if these numbers</p> <p>3 seem correct to you. And I have -- if you want to</p> <p>4 refresh your memory, I have copies of these borings, the</p> <p>5 logs.</p> <p>6 A. Okay.</p> <p>7 Q. If you want to refresh your memory.</p> <p>8 MS. JACOBS: And we'll go off the record</p> <p>9 while he does that.</p> <p>10 (Recess from 12:54 p.m. to 12:58 p.m.)</p> <p>11 Q. (BY MS. JACOBS) Okay. So Exhibit 9 -- have</p> <p>12 you had an opportunity to review Exhibit 9?</p> <p>13 A. Yes.</p> <p>14 Q. And I think I asked you before whether you had</p> <p>15 seen this document before?</p> <p>16 A. You did.</p> <p>17 Q. And what was your answer?</p> <p>18 A. No.</p> <p>19 Q. And did you -- if we just look at the</p> <p>20 different columns here -- and I'm going to start with</p> <p>21 Table E-4 -- the boring number here in the first column,</p> <p>22 is that information that you would have provided to</p> <p>23 Biggs and Mathews, for example?</p> <p>24 A. No.</p> <p>25 Q. Okay. "Surface Elevation," is that</p>
83	<p>1 THE WITNESS: Uh-huh.</p> <p>2 MS. JACOBS: We're just rocking along</p> <p>3 here.</p> <p>4 (Exhibit 9 marked)</p> <p>5 Q. (BY MS. JACOBS) And I'm going to ask you if</p> <p>6 you've seen this before?</p> <p>7 A. No.</p> <p>8 Q. Okay. And I'm just going to represent to you</p> <p>9 again this is a document that's Table E-4 entitled</p> <p>10 "Summary of Borings" on the first page, and then at the</p> <p>11 bottom of that page, "Table E-4(a), Summary of</p> <p>12 Piezometer Borings" that -- and it's also identified at</p> <p>13 the bottom, "Biggs & Mathews Environmental, Page E-17,"</p> <p>14 and again, from the technically complete December 10th,</p> <p>15 2012, version of the application. So that's where we</p> <p>16 obtained this document.</p> <p>17 A. Okay.</p> <p>18 Q. And -- but you have not seen that before, you</p> <p>19 said?</p> <p>20 A. No.</p> <p>21 Q. Okay. The second page, because the first page</p> <p>22 is somewhat difficult to read, there's small text, the</p> <p>23 second page is just that top Table E-4 blown up just a</p> <p>24 little bit for reading purposes.</p> <p>25 A. Okay.</p>	85	<p>1 information -- that's the second column, again, on</p> <p>2 Exhibit 9. Is that information that you would have</p> <p>3 provided to Biggs and Mathews?</p> <p>4 A. No.</p> <p>5 Q. How about third column, "Total Depth," is that</p> <p>6 information you would have provided to Biggs and</p> <p>7 Mathews?</p> <p>8 A. Yes.</p> <p>9 Q. And again, going back to "Surface Elevation,"</p> <p>10 when we're talking about -- in this table I think you</p> <p>11 can see that the -- we have logs or boring numbers that</p> <p>12 are called BME borings.</p> <p>13 A. Uh-huh. Right.</p> <p>14 Q. And then down at the bottom you've got EB-1</p> <p>15 through EB-6?</p> <p>16 A. Correct.</p> <p>17 Q. Is that right?</p> <p>18 A. Uh-huh.</p> <p>19 Q. And so those would be the exploratory borings</p> <p>20 that we had talked about previously?</p> <p>21 A. Correct. Uh-huh.</p> <p>22 Q. So looking at the BME borings, did you -- and</p> <p>23 this may be something -- I know I asked you about this</p> <p>24 with respect to the exploratory borings, but I wanted to</p> <p>25 make sure I asked you about this with respect to the 36</p>

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86	<p>1 borings that were -- that -- the BME borings here.</p> <p>2 A. Okay.</p> <p>3 Q. Did you -- I think you said that the surveyor</p> <p>4 was the one that obtained the surface elevation</p> <p>5 information in Column 2?</p> <p>6 A. Correct.</p> <p>7 Q. And did you -- when you were out in the field</p> <p>8 drilling, you did not verify that surface elevation in</p> <p>9 any way?</p> <p>10 A. No.</p> <p>11 Q. Okay. So going to Column 4, the "Bottom of</p> <p>12 Boring Elevation" --</p> <p>13 A. Uh-huh.</p> <p>14 Q. -- is that something that you would have</p> <p>15 provided Biggs and Mathews with?</p> <p>16 A. No.</p> <p>17 Q. And so who came up with that column of</p> <p>18 numbers -- or actually, who came up with the bottom of</p> <p>19 boring elevation numbers for these BME borings?</p> <p>20 A. I don't know.</p> <p>21 Q. Okay. How about this -- I guess it's</p> <p>22 the fifth column over, we have -- it's called</p> <p>23 "Feet Above/Below EDE."</p> <p>24 A. Uh-huh.</p> <p>25 Q. And then if we look down at the bottom of this</p>	88	<p>1 this column, which is only one type, that is "Boring,"</p> <p>2 that's something you would have provided to them, is</p> <p>3 that right?</p> <p>4 A. No.</p> <p>5 Q. Okay. And then the last two columns,</p> <p>6 "Northing" and "Easting."</p> <p>7 A. Uh-huh.</p> <p>8 Q. Are -- now, this -- is this -- are this the</p> <p>9 information that came from the surveyors?</p> <p>10 A. Correct.</p> <p>11 Q. Okay. And if you need to refresh your memory</p> <p>12 by looking at this table -- and again, I would refer you</p> <p>13 to the second copy, which is a little bit bigger.</p> <p>14 A. Okay.</p> <p>15 Q. This typeface is hard for me to see. You look</p> <p>16 at either one you want.</p> <p>17 Is it correct that the BME borings, the 36</p> <p>18 borings we've been talking about, were drilled from</p> <p>19 June 20th, 2011, to July 21st, 2011? Does that sound</p> <p>20 right?</p> <p>21 A. Yeah.</p> <p>22 Q. Would that information be noted on the boring</p> <p>23 logs?</p> <p>24 A. Yes, ma'am.</p> <p>25 Q. Okay. And you have no reason to think that</p>
87	<p>1 table --</p> <p>2 A. Uh-huh.</p> <p>3 Q. -- it says that EDE is "Elevation of deepest</p> <p>4 excavation."</p> <p>5 Do you see where I'm talking?</p> <p>6 A. Yes, ma'am.</p> <p>7 Q. And did you provide those numbers the -- in</p> <p>8 the fifth column?</p> <p>9 A. No.</p> <p>10 Q. Okay. Do you know who provided those numbers?</p> <p>11 A. No.</p> <p>12 Q. And then we've got "Top of Stratum II</p> <p>13 Elevations" in the sixth column.</p> <p>14 Do you see that title?</p> <p>15 A. Uh-huh.</p> <p>16 Q. And are those numbers that you provided to</p> <p>17 Biggs and Mathews?</p> <p>18 A. No.</p> <p>19 Q. And do you know who provided those numbers?</p> <p>20 A. No.</p> <p>21 Q. How about the "Install Date" column? Is --</p> <p>22 are those dates that you would have provided to</p> <p>23 Biggs and Mathews?</p> <p>24 A. Yeah. They were on the logs.</p> <p>25 Q. Okay. And I'm assuming that the "Type" in</p>	89	<p>1 that information is not correct on the logs?</p> <p>2 A. No.</p> <p>3 Q. Okay. And again, this may be -- we can -- I</p> <p>4 want to make sure we cover for these BME borings, the</p> <p>5 36, these -- this was again a situation where you did</p> <p>6 the hand -- the field logs and then sent the field logs</p> <p>7 to Biggs and Mathews, is that right?</p> <p>8 A. Yes, ma'am.</p> <p>9 Q. And then they at some point sent you back a</p> <p>10 draft log, is that right?</p> <p>11 A. Uh-huh.</p> <p>12 Q. And do you recall whether for the -- do you</p> <p>13 recall whether you ever saw a final version or a version</p> <p>14 of those logs that was described to you as being final?</p> <p>15 A. I don't remember.</p> <p>16 Q. Okay. And if we look down here -- and again,</p> <p>17 if you want to look at the installation date at the</p> <p>18 bottom of Exhibit 9, Table E-4(a) -- do you see where</p> <p>19 I'm --</p> <p>20 A. Okay. Yeah.</p> <p>21 Q. -- looking?</p> <p>22 A. Yeah.</p> <p>23 Q. And again, if you just want to tell me -- I'm</p> <p>24 looking at these dates and it looks like you drilled</p> <p>25 three of the piezometers on July 17th, is that right?</p>

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90	<p>1 Yeah. You have to go back to the first page, 2 unfortunately.</p> <p>3 A. Okay. That's fine. I drilled what?</p> <p>4 Q. Looks to me like you drilled three, if I'm 5 looking at installation date or "Install Date" column, 6 which is one, two, three, four -- five, the fifth 7 column.</p> <p>8 A. Uh-huh. Yeah.</p> <p>9 Q. It looks to me like you drilled three 10 piezometers on July 13th, 2011.</p> <p>11 A. Okay.</p> <p>12 Q. Is that right?</p> <p>13 A. Okay.</p> <p>14 Q. Are you saying that that's correct or --</p> <p>15 A. I'm looking at it right there. I don't -- I 16 don't know --</p> <p>17 Q. Okay.</p> <p>18 A. -- if that's -- I'm assuming that's correct.</p> <p>19 Q. Okay. Well, from your recollection do you 20 recall that you drilled three piezometers in mid July?</p> <p>21 A. I don't remember.</p> <p>22 Q. Okay. And that's fair.</p> <p>23 A. Yeah.</p> <p>24 Q. But you don't have any reason to believe 25 that these numbers are inaccurate or these dates are</p>	92	<p>1 A. Yeah. I thought I gave y'all one that was 2 similar to this. Yeah.</p> <p>3 Q. Yes. I think you did provide -- and I'll 4 just --</p> <p>5 A. Something similar, yeah.</p> <p>6 Q. Yeah. I'll just identify this for the record. 7 This is Figure E2-2 from the Pintail landfill 8 application. It's entitled "BORING AND PIEZOMETER 9 LOCATION MAP."</p> <p>10 A. Okay.</p> <p>11 Q. And when we look at these -- so looking at 12 the --</p> <p>13 (Interruption)</p> <p>14 Q. (BY MS. JACOBS) So looking at the -- looking 15 at this map here -- and again, if you want to just use 16 this to refresh your memory.</p> <p>17 A. Okay.</p> <p>18 Q. Or would you prefer to use your own map?</p> <p>19 A. No. This is fine.</p> <p>20 Q. Okay. I'm going to represent to you that 21 according to this table, Exhibit 9 --</p> <p>22 A. Uh-huh.</p> <p>23 Q. -- that the first boring that you drilled was 24 on June 20th, 2011. And that it was the F-6 boring. 25 And so if we look on this map, it appears to me -- and</p>
91	<p>1 inaccurate, is that right?</p> <p>2 A. I -- I don't -- I don't believe that they're 3 inaccurate.</p> <p>4 Q. Okay. And again, would I find the correct 5 date definitely on the actual piezometer log? You don't 6 know?</p> <p>7 A. Yeah, I don't know.</p> <p>8 Q. Right. Okay.</p> <p>9 Let's talk about the -- and actually, you 10 know what? We will -- this is going to -- I think this 11 is going to help.</p> <p>12 A. Okay.</p> <p>13 Q. I'm going to give you -- I'm a kind of visual 14 spacial person too.</p> <p>15 A. Okay.</p> <p>16 Q. So this -- I mean, this may or may not be 17 helpful to you. Hopefully it is.</p> <p>18 A. Okay.</p> <p>19 Q. This is Exhibit 10. 20 (Exhibit 10 marked)</p> <p>21 Q. (BY MS. JACOBS) And before we talk about what 22 this is, I'm just going to ask you, have you seen this 23 document before?</p> <p>24 A. I don't know if this version, but --</p> <p>25 Q. Something similar?</p>	93	<p>1 this map I'm referring to is Exhibit 10.</p> <p>2 A. Uh-huh.</p> <p>3 Q. It appears to me that F-6 -- Boring F-6 is in 4 the southeastern corner.</p> <p>5 Do you see that?</p> <p>6 A. Correct. Uh-huh.</p> <p>7 Q. Okay. Now, do you recall who picked that 8 as a starting location? Was that you or was that 9 Mike Snyder?</p> <p>10 A. I don't remember.</p> <p>11 Q. Okay. And looking at this map so that there's 12 no confusion, I'm going to direct you to Note 2 over on 13 the right-hand side --</p> <p>14 A. Uh-huh.</p> <p>15 Q. -- where it says, "A boring was also drilled 16 at the locations identified as piezometers."</p> <p>17 A. Uh-huh.</p> <p>18 Q. And so that -- when it says "PF-6" on here, 19 that's a piezometer location, but then that's also a 20 location of a boring.</p> <p>21 Is that your understanding?</p> <p>22 A. Correct.</p> <p>23 Q. And how far away did you drill? So you went 24 through and you did the 36 borings and you said that you 25 grouted those immediately upon completion, is that</p>

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94	<p>1 right?</p> <p>2 A. I think so. Uh-huh.</p> <p>3 Q. And then you came back later and did the</p> <p>4 piezometers -- installed the piezometers, is that right?</p> <p>5 A. Uh-huh.</p> <p>6 Q. When you -- when you came back and installed</p> <p>7 the piezometers, how far away were the piezometers from</p> <p>8 that original boring location? And to be more specific,</p> <p>9 for example, you obviously drilled a -- or it says,</p> <p>10 according to Table E-4 in the logs, that you drilled a</p> <p>11 boring at the location of F-6.</p> <p>12 A. Correct.</p> <p>13 Q. So you then came back and installed a</p> <p>14 piezometer around that location?</p> <p>15 A. Correct.</p> <p>16 Q. So you didn't use the same bore hole</p> <p>17 presumably, is that right?</p> <p>18 A. Correct.</p> <p>19 Q. So how far away was the original F-6 bore hole</p> <p>20 from the piezometer F-6 boring? Do you recall? And you</p> <p>21 can give an estimate.</p> <p>22 Are we talking ten feet?</p> <p>23 A. Yeah. Ten foot.</p> <p>24 Q. Ten feet. Okay.</p> <p>25 And would that be your best estimate for</p>	96	<p>1 A. Say again.</p> <p>2 Q. How did you know where to put the piezometer</p> <p>3 F-6? You already had -- we talked about how you had the</p> <p>4 stakes --</p> <p>5 A. Right.</p> <p>6 Q. -- out there for the BME bore holes, 36 bore</p> <p>7 holes.</p> <p>8 Did somebody go out and stake the</p> <p>9 locations of the piezometers?</p> <p>10 A. No. We just did it generally in the area,</p> <p>11 about ten foot away.</p> <p>12 Q. Okay. So you just determined those precise</p> <p>13 locations in the field, in other words?</p> <p>14 A. Those locations.</p> <p>15 Q. The locations -- I'm sorry. I need to</p> <p>16 clarify. The locations for the piezometers?</p> <p>17 A. Yeah.</p> <p>18 Q. You just went out there and said, Okay.</p> <p>19 Here's a location of my original boring F-6 and I'm</p> <p>20 going to do my piezometer at this other location. In</p> <p>21 other words, you didn't have any coordinates before you</p> <p>22 went out there, is that right?</p> <p>23 A. They were surveyed after.</p> <p>24 Q. Okay. They were surveyed after.</p> <p>25 And did you take any sort of GPS reading</p>
95	<p>1 the other piezometers that were located --</p> <p>2 A. Generally, yeah.</p> <p>3 Q. Okay. And we talked before about how the</p> <p>4 borings -- and you provided what is Exhibit 8 regarding</p> <p>5 the bore hole -- yeah, bore hole IDs and then the</p> <p>6 latitude, longitudes.</p> <p>7 A. Correct.</p> <p>8 Q. And did you use -- or the coordinates, I</p> <p>9 should say.</p> <p>10 Did you obtain additional coordinates for</p> <p>11 the piezometers? And by "additional," I mean did you --</p> <p>12 for example, for F-6, we can look down here at the</p> <p>13 bottom on Exhibit 8 and see that there is a line of</p> <p>14 coordinates for F-6 --</p> <p>15 A. Uh-huh.</p> <p>16 Q. -- and a ground elevation so on and so forth.</p> <p>17 When you went out to drill piezometer</p> <p>18 F-6 --</p> <p>19 A. Uh-huh.</p> <p>20 Q. -- within, you know, ten feet away from that</p> <p>21 initial boring --</p> <p>22 A. Yeah.</p> <p>23 Q. -- did you receive an additional set of</p> <p>24 coordinates other than the coordinates for F-6 that we</p> <p>25 see on Exhibit 8?</p>	97	<p>1 while you were out there of the piezometer locations?</p> <p>2 A. I can't remember. I mean, I had to put that</p> <p>3 on the log. I can't remember if I did it on the</p> <p>4 field -- in the field or if the surveyor provided those</p> <p>5 for me to put on the log.</p> <p>6 Q. Did you -- do you know if anybody took a</p> <p>7 measurement or did you receive any coordinates providing</p> <p>8 the distance between that initial boring and the</p> <p>9 corresponding piezometer that went with it? And again,</p> <p>10 we've been talking about F-6. Never mind.</p> <p>11 Okay. So let's look at -- while we're</p> <p>12 talking about these borings, let's look at one of the</p> <p>13 documents that you brought with you.</p> <p>14 A. Uh-huh.</p> <p>15 MS. JACOBS: Is this his original or is</p> <p>16 this --</p> <p>17 Q. (BY MS. JACOBS) Are all these copies copies</p> <p>18 that we can keep?</p> <p>19 MR. RYAN: No. Those are his originals.</p> <p>20 MS. JACOBS: Okay.</p> <p>21 A. Yeah, those are my originals.</p> <p>22 MS. NICHOLS: Those are -- I don't know</p> <p>23 which is the original.</p> <p>24 MS. JACOBS: All right. We'll figure</p> <p>25 that out later.</p>

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98	<p>1 Q. (BY MS. JACOBS) So we're going to mark this</p> <p>2 Exhibit 11. And after she marks it, I'm going to ask</p> <p>3 you to identify it.</p> <p>4 MR. RYAN: Can we go off the record for</p> <p>5 just a second?</p> <p>6 MS. JACOBS: Sure.</p> <p>7 (Recess from 1:15 p.m. to 1:25 p.m.)</p> <p>8 (Exhibit 11 marked)</p> <p>9 Q. (BY MS. JACOBS) You're looking at what has</p> <p>10 been marked, I believe, Exhibit 11.</p> <p>11 A. Uh-huh.</p> <p>12 Q. And could you identify that document for me?</p> <p>13 A. Yes. This is a boring plan.</p> <p>14 Q. And is this a document that you created?</p> <p>15 A. Nope.</p> <p>16 Q. And was it based on -- did you have any input</p> <p>17 into what appears on this document?</p> <p>18 A. Nope.</p> <p>19 Q. Okay. Is the writing in blue that is on this</p> <p>20 document your writing?</p> <p>21 A. Yes.</p> <p>22 Q. Okay. And what do these -- what does this</p> <p>23 blue writing on here mean? Just if you can decipher</p> <p>24 that for us.</p> <p>25 A. I have no idea. I -- I don't know. It could</p>	100	<p>1 Q. Okay.</p> <p>2 A. I mean, there's standard things that go in the</p> <p>3 field log.</p> <p>4 Q. Okay. What are those standard things that you</p> <p>5 put on your field logs?</p> <p>6 A. Sample number --</p> <p>7 Q. Uh-huh.</p> <p>8 A. -- description, complete date -- I mean,</p> <p>9 completion depth, date started, date completed, drilling</p> <p>10 method, sample method, you know, the observation like</p> <p>11 groundwater observation and hand penetrometer and blow</p> <p>12 counts.</p> <p>13 Q. Do you -- is there anything else that you</p> <p>14 typically include in your field logs that is other than</p> <p>15 what you just mentioned?</p> <p>16 A. I think that was sum total. I don't --</p> <p>17 Q. And is the field -- if I'm understanding you</p> <p>18 correctly, then, the field logs are -- that's -- is that</p> <p>19 your only record that you have of your observations in</p> <p>20 the field?</p> <p>21 A. Yes.</p> <p>22 Q. So when you were going through this iterative</p> <p>23 process with Mike Snyder and you were comparing and he</p> <p>24 was -- he was sending you back a draft log presumably</p> <p>25 based on your field logs, did he also send back your --</p>
99	<p>1 have been fences, ways to go to the locations. I don't</p> <p>2 know.</p> <p>3 Q. Okay.</p> <p>4 A. I don't -- I don't know.</p> <p>5 Q. Okay. That's fine.</p> <p>6 Why did you bring this with you today?</p> <p>7 A. It was in the file. It was -- you said you</p> <p>8 wanted everything, so here it is.</p> <p>9 Q. Actually, I didn't.</p> <p>10 A. Well --</p> <p>11 Q. That must have been your --</p> <p>12 A. They told me to bring everything in the file,</p> <p>13 so I brought the file.</p> <p>14 Q. And was that Mr. Ryan?</p> <p>15 A. Yeah.</p> <p>16 Q. Okay. So since we may or may not obtain these</p> <p>17 field logs that you did, I'm going to ask you about them</p> <p>18 in a little bit more detail.</p> <p>19 A. Yes, ma'am.</p> <p>20 Q. Paint me a visual picture of what it is -- if</p> <p>21 I was looking at this field log in front of me, what</p> <p>22 information would it have on it? Just walk me through</p> <p>23 what information you put on your field logs.</p> <p>24 Does it vary from case to case?</p> <p>25 A. No. No. There's --</p>	101	<p>1 a copy of your field log to you so that you could</p> <p>2 compare your field log with the draft log?</p> <p>3 A. At times.</p> <p>4 Q. At times?</p> <p>5 A. Yeah.</p> <p>6 Q. So do you -- and did he send it back to you</p> <p>7 electronically?</p> <p>8 A. I don't remember. I don't remember. No. It</p> <p>9 was -- I think it was mail. I think I looked at</p> <p>10 these -- and I don't know if I looked at all of them. I</p> <p>11 really don't. I really don't.</p> <p>12 Q. No. I totally understand.</p> <p>13 A. I mean --</p> <p>14 Q. I'm just trying to figure out if you're</p> <p>15 reviewing the draft logs, I'm assuming that you would</p> <p>16 want to be comparing it to your notes from the field.</p> <p>17 And that might be --</p> <p>18 A. Yeah.</p> <p>19 Q. -- a wrong assumption.</p> <p>20 A. No, I don't think it's a wrong assumption. I</p> <p>21 do so many projects, I can't remember. I can't</p> <p>22 remember.</p> <p>23 Q. Well, when you --</p> <p>24 A. You know, we did 36 borings. I don't -- you</p> <p>25 know, I mean --</p>

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102	<p>1 Q. Right.</p> <p>2 A. -- I couldn't remember that until I opened up</p> <p>3 the file and saw that there was 36 borings. I mean,</p> <p>4 come on.</p> <p>5 Q. I totally understand.</p> <p>6 Do you -- in the projects that you do --</p> <p>7 you've obviously done -- I think you said over 20</p> <p>8 projects --</p> <p>9 A. Yeah.</p> <p>10 Q. -- with Biggs and Mathews.</p> <p>11 A. Uh-huh.</p> <p>12 Q. How do you typically handle it? Do they</p> <p>13 typically send you back your draft logs for your --</p> <p>14 A. Typically, yeah.</p> <p>15 Q. -- review? Okay.</p> <p>16 A. Typically.</p> <p>17 Q. But you don't have any draft logs copies in</p> <p>18 your file?</p> <p>19 A. No.</p> <p>20 Q. Okay. Would they have sent any of those back</p> <p>21 to you electronically, any of the draft logs -- sorry,</p> <p>22 not draft logs. Your copies of your field logs?</p> <p>23 A. No. No.</p> <p>24 Q. Okay. So let's talk about the water levels</p> <p>25 that you took. And I want to talk specifically about</p>	104	<p>1 Q. -- plonker.</p> <p>2 A. Yeah.</p> <p>3 Q. Okay. What --</p> <p>4 A. Just a tape mea- -- a tape measure with a</p> <p>5 little weight on it where you hit water and measure.</p> <p>6 Q. Got it. Okay.</p> <p>7 And so when we were talking about the</p> <p>8 exploratory bore holes, you said that -- or borings, you</p> <p>9 said that you would hit water and then I think you said</p> <p>10 that you removed the drilling apparatus from the hole?</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. And then -- and then you immediately took a</p> <p>13 water level, is that right?</p> <p>14 A. Uh-huh.</p> <p>15 Q. Is that a yes?</p> <p>16 A. Yes. Yes.</p> <p>17 Q. She's having trouble.</p> <p>18 A. Yes.</p> <p>19 THE REPORTER: Thank you.</p> <p>20 Q. (BY MS. JACOBS) And again, refer to the logs</p> <p>21 in front of you if you need to refresh your memory.</p> <p>22 A. Okay.</p> <p>23 Q. But for these 36 bore holes, did you use the</p> <p>24 same drilling methodology that you did -- I mean, we</p> <p>25 talked about how you were using the -- for the six</p>
103	<p>1 the water levels that you took from the BME borings,</p> <p>2 the -- what's being called the BME borings or the 36</p> <p>3 borings that we've been talking about.</p> <p>4 A. Okay.</p> <p>5 Q. And again, I'm talking about the one -- if you</p> <p>6 look at Exhibit 9, that table, the -- that's why I'm</p> <p>7 calling them BME borings because they're --</p> <p>8 A. Right.</p> <p>9 Q. -- they're on that Exhibit 9.</p> <p>10 A. Right.</p> <p>11 Q. How did you take the -- and you described</p> <p>12 before how you took the water levels -- or how you</p> <p>13 thought you took the water levels for the six</p> <p>14 exploratory bore holes --</p> <p>15 A. Uh-huh.</p> <p>16 Q. -- 1 through 6.</p> <p>17 Was your procedure the same for -- for</p> <p>18 these 36 bore holes?</p> <p>19 A. Yes, ma'am.</p> <p>20 Q. Okay. And so just recapping that procedure,</p> <p>21 you -- or do you know with respect -- because you</p> <p>22 weren't quite sure whether you had used like an E line</p> <p>23 or what you had used for the six exploratory bore holes.</p> <p>24 I think you said something like a --</p> <p>25 A. Little plonker. Yeah.</p>	105	<p>1 exploratory borings, how you were using the dry auger</p> <p>2 followed by -- I'm missing my -- dry auger followed by</p> <p>3 the wet rotary?</p> <p>4 A. Uh-huh.</p> <p>5 Q. Did you use the same drilling method on the 36</p> <p>6 bore holes?</p> <p>7 A. Yes.</p> <p>8 Q. Okay. And so that was also the solid auger?</p> <p>9 A. It was drill rods with a bit on it.</p> <p>10 Q. Drill rods with a bit on it. Okay.</p> <p>11 Okay. Looking at Exhibit 10, back</p> <p>12 again --</p> <p>13 A. Uh-huh.</p> <p>14 Q. -- which is sort of our map, or you can look</p> <p>15 at Exhibit 11, if you prefer, if it helps kind of</p> <p>16 refresh your memory. But you've got -- we've got these</p> <p>17 36 borings kind of spread out over this area. And we</p> <p>18 talked before how you started with Boring F-6 sort of in</p> <p>19 the southeast corner.</p> <p>20 How did you decide where to go? You had</p> <p>21 a -- you had your plan. So you knew kind of where you</p> <p>22 were going to be. You had your -- you knew</p> <p>23 approximately where these were going to be. You had the</p> <p>24 staked locations, right?</p> <p>25 A. Correct.</p>

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106	<p>1 Q. So how did you decide which boring to go to</p> <p>2 next after your F-6? Do you recall?</p> <p>3 A. No.</p> <p>4 Q. And so Mike Snyder didn't give you any</p> <p>5 instructions --</p> <p>6 A. He may have. I don't remember.</p> <p>7 Q. -- in that regard?</p> <p>8 A. I don't remember.</p> <p>9 Q. Okay. And if you want to look at one of the</p> <p>10 logs while you talk me through this --</p> <p>11 A. Okay.</p> <p>12 Q. -- I want -- I'd like you to sort of just</p> <p>13 explain in detail how you -- and you've done some of</p> <p>14 this already, if we just kind of recap here -- how it is</p> <p>15 that you did the drilling and the sampling. And I think</p> <p>16 with the 36 -- and specifically information that I'm</p> <p>17 looking for here is I think you said that -- or let me</p> <p>18 ask you this.</p> <p>19 Were you behind the rig for all 36 of</p> <p>20 these borings?</p> <p>21 A. The 36?</p> <p>22 Q. Yes.</p> <p>23 A. No. Krystal was doing some --</p> <p>24 Q. Okay.</p> <p>25 A. -- and I was doing some.</p>	108	<p>1 A. Mike Snyder and -- I know Snyder was there and</p> <p>2 one of their engineers.</p> <p>3 Q. And what -- on what days was Mike Snyder</p> <p>4 there?</p> <p>5 A. I have no idea.</p> <p>6 Q. Well, it looks like this took you about a</p> <p>7 month.</p> <p>8 Does that sound right?</p> <p>9 A. Yeah. Yeah.</p> <p>10 Q. Do you have any feel for was he there 20 days</p> <p>11 out of 30? 15 out of 30?</p> <p>12 A. Probably couple of days a week, so -- I don't</p> <p>13 know what percentage that is, but --</p> <p>14 Q. That's --</p> <p>15 A. -- you know.</p> <p>16 Q. That's okay. I'm just trying to get a feel</p> <p>17 for it.</p> <p>18 A. Eight -- yeah. Couple days a week.</p> <p>19 Q. Okay. And on the days that he was on site,</p> <p>20 what did Mike Snyder do?</p> <p>21 A. Observe.</p> <p>22 Q. And did he also look at the samples that you</p> <p>23 obtained from the borings?</p> <p>24 A. Absolutely.</p> <p>25 Q. Did he look at all of the samples?</p>
107	<p>1 Q. And do you recall which ones you were present</p> <p>2 for --</p> <p>3 A. I don't recall.</p> <p>4 Q. -- the drilling process?</p> <p>5 A. I looked at all the samples, but she had one</p> <p>6 rig and I had the other rig. I don't remember which</p> <p>7 ones.</p> <p>8 Q. Okay. And how long does it generally -- I</p> <p>9 mean, in this particular -- with this particular</p> <p>10 project, how long did it take to drill a boring? And I</p> <p>11 know that we had borings of different depths, but about</p> <p>12 how long were you taking per boring? Do you recall?</p> <p>13 A. I can't remember. I can't remember.</p> <p>14 Q. Do you remember -- you said that Krystal was</p> <p>15 sitting on some -- sitting on the rig for some of the</p> <p>16 borings and then you were sitting on another rig for the</p> <p>17 other borings.</p> <p>18 Do you recall how many --</p> <p>19 A. I don't.</p> <p>20 Q. -- she was --</p> <p>21 A. I don't.</p> <p>22 Q. And was anybody from Biggs and Mathews on site</p> <p>23 during the process of drilling these 36 borings?</p> <p>24 A. Yes.</p> <p>25 Q. And who was that?</p>	109	<p>1 A. That we obtained from the borings?</p> <p>2 Q. On the days that he was out there.</p> <p>3 A. While he was there, yes, ma'am.</p> <p>4 Q. And on the days that he was there, how long</p> <p>5 did he spend in the field? I mean, I'm trying to get a</p> <p>6 feel for was he out there -- if you were out there ten</p> <p>7 hours, was he out there ten hours or was he out there</p> <p>8 two hours?</p> <p>9 A. No. He was out there predominantly the whole</p> <p>10 day.</p> <p>11 Q. Okay.</p> <p>12 A. And if he came down for two days, I mean, it</p> <p>13 was a -- I mean, he spent time in the field. It wasn't</p> <p>14 like drive by.</p> <p>15 Q. Gotcha.</p> <p>16 A. Yeah.</p> <p>17 Q. And when Mike Snyder was not in the field, did</p> <p>18 you provide him with progress reports?</p> <p>19 A. Daily.</p> <p>20 Q. Daily. Okay.</p> <p>21 And what form were these progress reports</p> <p>22 in? Did you talk to him on the phone?</p> <p>23 A. Phone.</p> <p>24 Q. Phone.</p> <p>25 A. Yeah. We called. Yeah.</p>

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110	<p>1 Q. Okay. Did you e-mail him any information?</p> <p>2 A. Not from the field, no.</p> <p>3 Q. Did you e-mail him information regarding the</p> <p>4 day's activities when you got back to your office or</p> <p>5 when you got to a location where you had a computer?</p> <p>6 A. I don't think so.</p> <p>7 Q. Okay. And again, just to make sure that I</p> <p>8 understand, I know that for -- you stated earlier when</p> <p>9 we were talking that Mike Snyder gave you certain</p> <p>10 parameters for your proposal and how you were going to</p> <p>11 conduct this investigation.</p> <p>12 A. Correct.</p> <p>13 Q. And just so I make sure I know, talking about</p> <p>14 the 36 borings, did Mike Snyder choose those depths on</p> <p>15 the borings?</p> <p>16 A. They did. I didn't choose the depths. Yeah,</p> <p>17 they checked -- they chose the depths.</p> <p>18 Q. And when you were in the field, were there</p> <p>19 ever times that you suggested another depth because of</p> <p>20 something that happened in the field or did you always</p> <p>21 just hit whatever depth that they had said?</p> <p>22 A. If I had a question and I was at a -- the</p> <p>23 bottom of the hole, if I had a question, I'd call him,</p> <p>24 say, Hey, we're at such and such. I've hit this. What</p> <p>25 do you want to do?</p>	112	<p>1 Q. Okay. And did he also choose the sampling</p> <p>2 intervals or was that something that you decided in the</p> <p>3 field?</p> <p>4 A. They told me where they wanted samples. For</p> <p>5 this particular project, just looking at two logs, we</p> <p>6 went continuous to 30 and then intermittent after that,</p> <p>7 from looking at two of them. So I'm sure that's</p> <p>8 probably what we did the whole project.</p> <p>9 Q. Okay. Okay. So if we look at -- let's go</p> <p>10 back to Exhibit 9 --</p> <p>11 A. Uh-huh.</p> <p>12 Q. -- which is our table.</p> <p>13 A. Uh-huh.</p> <p>14 Q. And you can look at either page -- actually,</p> <p>15 no. You know what, you have to look at the first page.</p> <p>16 Sorry.</p> <p>17 A. Okay. Uh-huh.</p> <p>18 Q. On this -- if we -- if you look down at the</p> <p>19 Table E-4(a), you remember how we talked before about it</p> <p>20 looks -- according to these dates, it looks like you</p> <p>21 installed three piezometers on July 13th, sort of mid</p> <p>22 July there?</p> <p>23 A. Yeah.</p> <p>24 Q. Does that sound right? I mean, would you have</p> <p>25 been able to install three piezometers in one day?</p>
111	<p>1 Q. And --</p> <p>2 A. I didn't suggest the depth.</p> <p>3 Q. Okay. And did the -- and did Mike Snyder also</p> <p>4 instruct you as to what drilling method to use? And by</p> <p>5 "drilling method" I'm talking about dry auger versus wet</p> <p>6 rotary.</p> <p>7 Any other types of methods that you might</p> <p>8 have an option for, is that something that you decided</p> <p>9 in the field?</p> <p>10 A. Well, the -- they wanted this drilled to grab</p> <p>11 samples with split spoons and Shelby tubes.</p> <p>12 Q. Uh-huh.</p> <p>13 A. And standard we drill dry until we hit refusal</p> <p>14 or hit water and the hole caves in and then we set up</p> <p>15 and start drilling. So -- you know.</p> <p>16 Q. And what do you mean by "hit refusal"?</p> <p>17 A. Well, in some places, if you're drilling, you</p> <p>18 may not be able to go any further with dry auger</p> <p>19 methods, so you set up and start drilling.</p> <p>20 Q. Okay.</p> <p>21 A. So yeah. So --</p> <p>22 Q. And I think what you were indicating there is</p> <p>23 that then Mike Snyder chose the sampling method that he</p> <p>24 wanted you to use, the --</p> <p>25 A. They're ASTM methods, yes, ma'am.</p>	113	<p>1 A. Yep.</p> <p>2 Q. And when I say "install," I mean install and</p> <p>3 develop and have it all done.</p> <p>4 A. No. They weren't developed in -- I mean,</p> <p>5 drilled, yes.</p> <p>6 Q. Drilled. Okay.</p> <p>7 A. Yes. Yes.</p> <p>8 Q. Just so we make sure --</p> <p>9 A. Yeah. Yeah.</p> <p>10 Q. -- we got our --</p> <p>11 A. Terminology correct.</p> <p>12 Q. Exactly.</p> <p>13 A. Drilled.</p> <p>14 Q. Exactly.</p> <p>15 And so can you -- as best you can for the</p> <p>16 layperson, which is me, can you walk me through for --</p> <p>17 now we've moved on. We're not talking about our 36</p> <p>18 borings anymore. We've moved on to the piezometers.</p> <p>19 Can you walk me through what that process</p> <p>20 looks like in the field? And I mean what equipment you</p> <p>21 used, you know, Step 1, Step 2. If you can just kind of</p> <p>22 walk me through that and then I'll -- I -- I'll ask you</p> <p>23 questions of clarification as I need to.</p> <p>24 Does that make sense?</p> <p>25 A. Yeah.</p>

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<p style="text-align: right;">114</p> <p>1 Q. So you get in there the morning. You've got 2 your rig. 3 A. Uh-huh. 4 Q. You know what method -- drilling method you're 5 going to use because that's the drilling method that you 6 always use, correct? 7 A. Correct. 8 Q. Okay. So -- and for these particular ones, 9 for the piezometers, Krystal was not -- you were the one 10 that was sitting on the rig for these piezometers, 11 correct? 12 A. Correct. 13 Q. Okay. So for each one of those, while they're 14 drilling it, you're standing by the rig and what are you 15 doing? What instructions are you giving? 16 A. I'm watching the cuttings come out of the hole 17 to verify the soils. 18 Q. Okay. And so you took -- on these you had 19 cuttings? 20 A. Uh-huh. 21 Q. Okay. And so continue on for me, if you will. 22 You're -- so you're watching -- 23 A. We were given a depth to drill to. 24 Q. Right. 25 A. We drilled to that depth.</p>	<p style="text-align: right;">116</p> <p>1 A. I don't know. 2 Q. Okay. And when you were talking about using 3 the sand -- when you said put sand in there, is that 4 what you were using for a filter pack? 5 A. Yes, ma'am. The 20/40 sand. 6 Q. 20/40 sand. Okay. 7 And do you recall where you got that sand? 8 A. Side of the road. Supplier. Yeah, the 9 supplier. 10 Q. Hey, don't laugh. That's where you got the 11 water. 12 A. Yeah. Gulf Coast Monitor, I believe. 13 Q. Okay. And do you know whether that sand was 14 pre-cleaned or did you clean it in the field? 15 A. Pre-cleaned. 16 Q. Pre-cleaned. 17 Just like the lettuce, huh? 18 A. Just like the lettuce. 19 Q. And you said that you put in the sand to a 20 prescribed depth, correct? 21 A. Correct. 22 Q. And how did you measure the depth to the sand? 23 A. With the weighted tape. 24 Q. The weighted tape. 25 And did you for these -- and again we're</p>
<p style="text-align: right;">115</p> <p>1 Q. Right. 2 A. We flushed the hole out. We were given the 3 screen interval -- the screen interval we were going to 4 screen. We put the PVC together, put a bottom cap on 5 it, put it in the hole, filled it up with sand to a 6 prescribed depth, put a bentonite chip, there's a seal 7 on top of that, and then we grouted the location to the 8 surface or three foot from the surface. 9 Q. And so I think you were saying before when 10 you -- did you say something like you flushed the well? 11 A. Yeah. 12 Q. Okay. And is that the date that you -- so you 13 were saying that on some of these maybe you developed 14 them the same day? 15 A. No. 16 Q. No. Okay. 17 So you would have developed them the next 18 day -- the piezometers the next day? 19 A. No. Probably not. 20 Q. Probably not. Okay. 21 So when did you typically develop the 22 piezometers for this project in terms of what was the 23 interval between drilling and development? 24 A. I don't know. 25 Q. Are we talking like a week?</p>	<p style="text-align: right;">117</p> <p>1 talking about the piezometers. 2 Did you take an initial water level 3 reading in the boring before you put the casing in? 4 A. No. 5 Q. I'm laughing because again you nod as you say 6 no. It's very interesting. 7 Okay. Did you make any observations about 8 the behavior of the water in the boring? In other 9 words, whether it was staying stationary -- at a 10 stationary level or whether -- and when I say 11 "observations," obviously if you couldn't see it, then, 12 you know, did you use instrumentation or something like 13 that. 14 But did you make any observations about 15 whether it just stayed at a certain level or whether it 16 dropped? 17 A. No. 18 Q. Okay. Do you know if Mike Snyder made any 19 observations of that kind when he was -- on the days he 20 was in the field? 21 A. No. 22 Q. No, you don't know or no, he didn't? 23 A. No, he didn't. 24 Q. Okay. And did you do a specific yield test in 25 the field at the time that you drilled these --</p>

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118	<p>1 A. No.</p> <p>2 Q. -- piezometers? Okay.</p> <p>3 And same procedure with these, I'm</p> <p>4 assuming, and correct me if I'm wrong, but with the</p> <p>5 piezometers you had the field logs, which you then</p> <p>6 provided to Mike Snyder or somebody at Biggs and Mathews</p> <p>7 and then they came back and gave you a draft log and</p> <p>8 maybe sent you back your field log and you reviewed the</p> <p>9 draft logs?</p> <p>10 A. On the piezometers?</p> <p>11 Q. Yes.</p> <p>12 A. Yes, ma'am.</p> <p>13 Q. Okay. Now, you mentioned with the piezometers</p> <p>14 that you also did the state well report, correct?</p> <p>15 A. Yes, ma'am.</p> <p>16 Q. And did -- was this the same situation where</p> <p>17 you did a draft state well report and then Mike Snyder</p> <p>18 came up with the final version?</p> <p>19 A. No.</p> <p>20 Q. Okay. So this was -- the state well reports,</p> <p>21 that was all you?</p> <p>22 A. (No response.)</p> <p>23 Q. Yes?</p> <p>24 A. Yes, ma'am. Yes. Yes.</p> <p>25 Q. Let's talk just a little bit more about how</p>	120	<p>1 A. Slope inclinometer, I think is the brand we</p> <p>2 buy.</p> <p>3 Q. Okay. Do you have any idea on, like, model</p> <p>4 number?</p> <p>5 A. No.</p> <p>6 Q. Okay. So you took the water level.</p> <p>7 A. Uh-huh.</p> <p>8 Q. And is this -- and this is the water level</p> <p>9 after casing it?</p> <p>10 A. Yes.</p> <p>11 Q. Okay. And again, timing of the water level</p> <p>12 after casing it -- we talked about the bore holes and</p> <p>13 you didn't take any initial water levels on the 36 bore</p> <p>14 holes.</p> <p>15 That's what you said, right?</p> <p>16 A. What?</p> <p>17 Q. I may have said that wrong. I'm sorry. I did</p> <p>18 say that wrong.</p> <p>19 You said that you didn't take any initial</p> <p>20 water levels for the piezometers?</p> <p>21 A. Correct.</p> <p>22 Q. Right. Okay.</p> <p>23 And -- but at then what point in the</p> <p>24 process did you take the water levels with the</p> <p>25 electronic device you were referring to?</p>
119	<p>1 you -- your process of how you developed a well -- or</p> <p>2 the wells, the piezometers.</p> <p>3 A. The piezometers.</p> <p>4 Q. And when you were developing these, did you</p> <p>5 follow the same procedure for each well?</p> <p>6 A. Yes.</p> <p>7 Q. Okay. And what -- and what exactly did you</p> <p>8 do? How do you develop a well or how did you develop</p> <p>9 these wells? And again, I'm looking for sort of a step</p> <p>10 by step. Maybe it's not that complicated, but if you'd</p> <p>11 just explain it to me.</p> <p>12 A. It's not complicated at all.</p> <p>13 Q. Okay.</p> <p>14 A. You take a water level measurement.</p> <p>15 Q. Using the --</p> <p>16 A. Electronic water level indicator.</p> <p>17 Q. Okay. So on these you took -- you didn't use</p> <p>18 just the tape with the --</p> <p>19 A. No.</p> <p>20 Q. -- plonk thing?</p> <p>21 Okay. So on these you used what --</p> <p>22 A. Electronic water level indicator.</p> <p>23 Q. Is there a brand?</p> <p>24 A. Slope.</p> <p>25 Q. Slope.</p>	121	<p>1 A. We take water levels prior to developing a</p> <p>2 well to see if it moves, you know, one way or another.</p> <p>3 So we dropped a pump down in there and get the fines and</p> <p>4 silts out that were created while drilling, make sure</p> <p>5 that the water is flowing in, get down to our five NTUs</p> <p>6 and you're developed.</p> <p>7 Q. Okay. So you take the water level first.</p> <p>8 Then you do your -- you put the pump in the well and</p> <p>9 pump it?</p> <p>10 A. Well, you take a water level because if you</p> <p>11 put the well in -- I mean, if you put the pump in, the</p> <p>12 water level is going to change.</p> <p>13 Q. And did you take the water level for these</p> <p>14 piezometers -- I mean, how long did -- how long after</p> <p>15 you had finished casing the boring and -- did you take</p> <p>16 it immediately after you finished casing the boring or</p> <p>17 did you let it sit, go away for a while, come back? Do</p> <p>18 you have any recollection?</p> <p>19 A. No recollection.</p> <p>20 Q. Do you have any recollection about how long</p> <p>21 you were pumping the well as part of that well</p> <p>22 development process?</p> <p>23 A. To five NTUs.</p> <p>24 Q. To five NTUs.</p> <p>25 And so you would just pump and then</p>

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<p style="text-align: right;">122</p> <p>1 presumably test the water and then pump --</p> <p>2 A. Correct.</p> <p>3 Q. -- some more if you --</p> <p>4 A. Correct.</p> <p>5 Q. Okay. And when you were collecting the sample</p> <p>6 for the NTUs, the turbidity, how did you collect that</p> <p>7 sample? What did you -- what mechanism did you use to</p> <p>8 collect that sample?</p> <p>9 A. I had a plastic -- no. I'm sorry. The NTUs</p> <p>10 go straight into a little vial that comes with the</p> <p>11 meter.</p> <p>12 Q. And so did you have a -- did you use a</p> <p>13 downhole pump to collect it -- the sample?</p> <p>14 A. We installed a ready-flow tube plump down the</p> <p>15 well and purged the water out that way for development.</p> <p>16 Q. And that's how you obtained your samples --</p> <p>17 your water samples to test for turbidity as well?</p> <p>18 A. Correct. Yes, ma'am.</p> <p>19 Q. Okay. Do you need another break?</p> <p>20 A. Do you?</p> <p>21 Q. (Indicating.)</p> <p>22 A. Let's do.</p> <p>23 Q. Let's take a break.</p> <p>24 (Recess from 1:54 p.m. to 2:04 p.m.)</p> <p>25 (Mr. McGuffey left the proceedings.)</p>	<p style="text-align: right;">124</p> <p>1 stopped, pulled the equipment out of the hole and then</p> <p>2 took a water level immediately?</p> <p>3 A. Correct.</p> <p>4 Q. And did you follow that same procedure for the</p> <p>5 piezometers when you were drilling those?</p> <p>6 A. No.</p> <p>7 Q. No.</p> <p>8 So you waited to take the water levels</p> <p>9 from the piezometers after you had cased them, is that</p> <p>10 right?</p> <p>11 A. Correct.</p> <p>12 Q. Okay. And where did you record those water</p> <p>13 level measurements that you took from the borings for</p> <p>14 EB-1 through 6? Where did you record that information?</p> <p>15 A. On the log.</p> <p>16 Q. On your field log?</p> <p>17 A. Yes, ma'am.</p> <p>18 Q. Okay. And did you also for the -- where -- in</p> <p>19 the water level measurements for the 36 borings, did you</p> <p>20 also note those water level measurements in your field</p> <p>21 logs?</p> <p>22 A. Correct.</p> <p>23 Q. Okay. Can you -- switching gears here just</p> <p>24 for a moment.</p> <p>25 A. Uh-huh.</p>
<p style="text-align: right;">123</p> <p>1 Q. (BY MS. JACOBS) So one of the things that</p> <p>2 we've been talking about are when and how you took the</p> <p>3 water level measurements in these various borings. And</p> <p>4 I want to go back and make sure that I have this</p> <p>5 straight.</p> <p>6 So for the first EB-1 through EB-6, the</p> <p>7 exploratory borings that we talked about in the</p> <p>8 beginning, you said that you utilized the dry auger</p> <p>9 method until you hit water and then you used the wet</p> <p>10 rotary drilling method.</p> <p>11 And did you -- and I'm not sure if I asked</p> <p>12 you this. But at what point in that process did you</p> <p>13 take the water level measurements from EB-1 through EB-6</p> <p>14 borings? Did you take it at the point that you hit</p> <p>15 water or after you had completely drilled the bore hole?</p> <p>16 A. The point we hit water, after we took the</p> <p>17 stuff out of the hole.</p> <p>18 Q. And by "stuff" you mean the drilling</p> <p>19 equipment?</p> <p>20 A. Yes, ma'am.</p> <p>21 Q. Okay. And was that the same with respect to</p> <p>22 the water levels for the bore holes -- the 36 bore</p> <p>23 holes?</p> <p>24 A. Yes, ma'am.</p> <p>25 Q. So in other words, once you hit water, you</p>	<p style="text-align: right;">125</p> <p>1 Q. Can you describe for me the process that you</p> <p>2 used? And again, just remember I am -- actually, you</p> <p>3 know what, before we get into that, let's talk about</p> <p>4 the -- since we're talking about water levels, let's</p> <p>5 talk about the monthly readings that you did.</p> <p>6 A. Okay.</p> <p>7 Q. And I'm going to hand you an exhibit which we</p> <p>8 are to mark 12 -- Exhibit No. 12.</p> <p>9 (Exhibit 12 marked)</p> <p>10 Q. (BY MS. JACOBS) And if you could look at that</p> <p>11 and see if you are familiar with that exhibit.</p> <p>12 A. Uh-huh.</p> <p>13 Q. So have you seen this document before?</p> <p>14 A. No.</p> <p>15 Q. And just for the record, this is Page E-26</p> <p>16 that we obtained from the applicant's technically</p> <p>17 complete December 10th, 2012, version of the</p> <p>18 application. And it is labeled "Table E-10, Water Level</p> <p>19 Elevations - Piezometers," is that correct?</p> <p>20 A. Correct.</p> <p>21 Q. And do you recognize these readings?</p> <p>22 A. No.</p> <p>23 Q. Do you -- well, then let me ask you.</p> <p>24 When did you start taking water level</p> <p>25 measurements from -- for the piezometers?</p>

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126	<p>1 A. For No. P-B-6, P-C-3 and P-F-6, it was taken</p> <p>2 on 7/14/2011.</p> <p>3 Q. Okay. And then it looks like you took --</p> <p>4 A. On 8/8, all of them.</p> <p>5 Q. Okay. And it looks like -- so for those</p> <p>6 three, we talked earlier about -- well, let me ask you</p> <p>7 this.</p> <p>8 You then took for those three wells that</p> <p>9 you've noted from Table E-6, you then took another water</p> <p>10 level reading on 7/15. I'm looking at the second line,</p> <p>11 it looks like.</p> <p>12 A. Correct.</p> <p>13 Q. And 7/18, another set?</p> <p>14 A. Correct.</p> <p>15 Q. Why did you take three water level readings</p> <p>16 that close together from these three piezometers? And</p> <p>17 by that close together, I mean in -- one after another.</p> <p>18 It looks like these other ones are spaced out a little</p> <p>19 bit.</p> <p>20 Do you recall?</p> <p>21 A. I don't recall.</p> <p>22 Q. Okay.</p> <p>23 A. The -- it appears from looking at this thing</p> <p>24 that the other ones weren't put in yet.</p> <p>25 Q. Okay. And when you were taking your -- and we</p>	128	<p>1 proposing -- and I understand this is a proposal versus</p> <p>2 what you actually did.</p> <p>3 A. Yeah.</p> <p>4 Q. But you don't -- so you just don't remember</p> <p>5 how many times a month you might have done those water</p> <p>6 levels?</p> <p>7 A. Right there (indicating).</p> <p>8 Q. Okay.</p> <p>9 A. I mean --</p> <p>10 Q. And you're referring to Exhibit 12?</p> <p>11 A. Exhibit 12.</p> <p>12 Q. Okay. So you feel pretty confident that these</p> <p>13 are records of the water levels you took on Exhibit 12?</p> <p>14 A. Correct.</p> <p>15 Q. And again, when you were -- when you took</p> <p>16 these water levels, how did you record that information</p> <p>17 in the field? Did you write it in your notes?</p> <p>18 A. Log.</p> <p>19 Q. Log?</p> <p>20 A. Yeah. It's on the log.</p> <p>21 Q. Well, but I mean, when you went and took --</p> <p>22 I'm not talking about your initial water levels. I'm</p> <p>23 saying when you were taking your monthly water levels</p> <p>24 for a year or bimonthly or trimonthly water levels for a</p> <p>25 period of a year, how did you record that information</p>
127	<p>1 can go -- you can go back to your proposal or your --</p> <p>2 A. Yeah. Yeah. Yeah.</p> <p>3 Q. -- whatever you want to do to refresh your</p> <p>4 memory.</p> <p>5 A. Uh-huh.</p> <p>6 Q. But in your proposal you had proposed taking</p> <p>7 monthly readings --</p> <p>8 A. Correct.</p> <p>9 Q. -- of the water levels?</p> <p>10 A. Correct.</p> <p>11 Q. And here it looks like you took more than</p> <p>12 once-a-month readings, is that right? Did you take</p> <p>13 multiple water level readings for each month? And</p> <p>14 this --</p> <p>15 A. It -- it appears, yeah.</p> <p>16 Q. Well, I mean --</p> <p>17 A. It appears that we took some --</p> <p>18 Q. -- just whatever you recall.</p> <p>19 Do you recall taking more than once a</p> <p>20 month?</p> <p>21 A. If I'm directed to take water levels, I'll</p> <p>22 take water levels.</p> <p>23 Q. Okay. And the reason I'm asking for</p> <p>24 clarification is that that doesn't look, to me -- what I</p> <p>25 remember from your proposal, I thought your proposal was</p>	129	<p>1 when you were out in the field?</p> <p>2 A. We had a sheet.</p> <p>3 Q. Okay. And was it a handwritten sheet?</p> <p>4 A. The data was handwritten.</p> <p>5 Q. Okay. And did you provide that handwritten</p> <p>6 data to Mike Snyder?</p> <p>7 A. Yes, sir -- I mean, yes, ma'am.</p> <p>8 Q. Okay. And did you e-mail that information?</p> <p>9 How did you generally provide your field notes and your</p> <p>10 field logs to Mike Snyder? Did you --</p> <p>11 A. On the monthly water levels?</p> <p>12 Q. On the monthly water levels. Let's start</p> <p>13 there.</p> <p>14 Did you e-mail it to him -- scan it and</p> <p>15 e-mail it to him?</p> <p>16 A. Either that or fax.</p> <p>17 Q. Either that or fax?</p> <p>18 A. Yeah.</p> <p>19 Q. Okay. And I -- is it the same method of</p> <p>20 transmission for your field logs that we've been talking</p> <p>21 about and other types of field notes?</p> <p>22 A. I think with that many, I think they were sent</p> <p>23 courier, you know, like FedEx or they were delivered</p> <p>24 with the samples. These were either faxed or e-mailed.</p> <p>25 I don't know.</p>

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<p style="text-align: right;">130</p> <p>1 Q. Okay. And did you keep any copies of your 2 notes?</p> <p>3 A. No.</p> <p>4 Q. Is that your typical practice?</p> <p>5 A. It is.</p> <p>6 Q. And again, just so I'm clear, you know, we 7 talked about the methodology that you used for the 8 water levels for the exploratory borings and for the 9 36 borings. Once you had these piezometers installed, 10 what methodology -- how did you take these water levels?</p> <p>11 A. Electronic water level indicator.</p> <p>12 Q. The same one that you had indicated to me 13 before?</p> <p>14 A. Correct.</p> <p>15 Q. And did you take the -- for each time when you 16 went out there on a particular day, just say you went 17 out there, you know, August 12th and you were going to 18 take water levels from a certain number of wells.</p> <p>19 Did you take a water level from an 20 individual piezometer multiple times on that same day 21 and then pick one value or did you just take one 22 value -- take one measurement?</p> <p>23 A. One value.</p> <p>24 Q. Okay. Let's switch gears and talk about the 25 slug tests.</p>	<p style="text-align: right;">132</p> <p>1 A. No. No. You're good. Go ahead.</p> <p>2 Q. Okay. So -- so we -- Mike Snyder's picked the 3 eight piezometers and you go out in the field and then 4 what happens? You're going to conduct your slug test?</p> <p>5 A. I'm going to conduct a slug test.</p> <p>6 Q. All right.</p> <p>7 A. We get the equipment out there. We take some 8 measurements of the water.</p> <p>9 Q. And what equipment are you referring to first?</p> <p>10 A. Transducer -- pressure transducer, be able to 11 change -- measure the change in water.</p> <p>12 Q. Okay. And do you recall what brand?</p> <p>13 A. It was probably a Incitu. Incitu, I think, is 14 the brand that we do.</p> <p>15 Q. Okay. So you got your equipment out there. 16 You got your transducer. And you said --</p> <p>17 A. Uh-huh.</p> <p>18 Q. -- you -- and do you know how -- I mean, do 19 you use the -- do you have your own transducers?</p> <p>20 A. I own some, yes, ma'am.</p> <p>21 Q. You own some?</p> <p>22 How old are your transducers?</p> <p>23 A. I don't know.</p> <p>24 Q. Are they new?</p> <p>25 A. Some of them are, yeah.</p>
<p style="text-align: right;">131</p> <p>1 A. Okay.</p> <p>2 Q. And I think before when we were talking about 3 your proposal, you -- I think you stated that it was 4 Mike Snyder who picked the number of slug tests that 5 were going to be conducted, is that right?</p> <p>6 A. Uh-huh.</p> <p>7 Q. Is that a yes?</p> <p>8 A. Yes.</p> <p>9 Q. And did Mike Snyder also pick which 10 piezometers --</p> <p>11 A. Yes.</p> <p>12 Q. -- would be -- you would conduct the slug test 13 on?</p> <p>14 A. Yes.</p> <p>15 Q. And again, this is kind of what we've been 16 doing with the other stuff. If you could just walk me 17 through the process that you followed in conducting this 18 slug test. And, I mean, you get out there in the field. 19 You have your piezometer. It's already been -- you look 20 surprised.</p> <p>21 A. No. I'm just surprised that you know all of 22 this.</p> <p>23 Q. You just told me.</p> <p>24 A. No, no. No, go ahead.</p> <p>25 Q. I thought you just told me. Am I wrong?</p>	<p style="text-align: right;">133</p> <p>1 Q. Okay. But you don't know which ones you used 2 when you were out there taking these --</p> <p>3 A. They're --</p> <p>4 Q. -- water levels?</p> <p>5 A. They're calibrated by the manufacturer.</p> <p>6 Q. Okay. I think I just said "taking these water 7 levels." I meant "taking these slug tests." Just 8 clarifying for the record.</p> <p>9 Okay. So you go out there. You said then 10 you have your equipment and then you said you take a 11 number of water levels. And -- I thought that's what 12 you just said in terms of the process. I shouldn't be 13 telling this story. You tell the story.</p> <p>14 A. I took water levels on the ones, not --</p> <p>15 Q. Right.</p> <p>16 A. -- I mean, at each location.</p> <p>17 Q. Right.</p> <p>18 A. And we made measurements meaning where we're 19 going to put the transducer in the well. Okay? We 20 lower it into the well. And we -- you drop a slug to 21 make the water rise. And the pressure transducer 22 measures the rise and the fall on the water.</p> <p>23 Q. And did you -- when you said you took 24 measurements to decide where to put the transducer --</p> <p>25 A. Right.</p>

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<p style="text-align: right;">134</p> <p>1 Q. -- in the piezometer?</p> <p>2 A. In the piezometer.</p> <p>3 Q. How did you take those measurements?</p> <p>4 A. With electronic water level indicator. I</p> <p>5 wanted to know the geometry so it wouldn't drop a metal</p> <p>6 thing on top of my transducer.</p> <p>7 Q. Fair.</p> <p>8 And before that I thought -- I think you</p> <p>9 said that the calibration is done by the manufacturer?</p> <p>10 A. Uh-huh.</p> <p>11 Q. The calibration of -- you're referring to the</p> <p>12 calibration of the transducer?</p> <p>13 A. Transducer, yeah.</p> <p>14 Q. Okay. And so the -- and is that calibration</p> <p>15 done before you purchase it or do you take it back</p> <p>16 periodically for --</p> <p>17 A. I think it's taken back periodically. It has</p> <p>18 a life, you know, and then you have to send it back and</p> <p>19 pay them more money.</p> <p>20 Q. Do you have any idea how often your equipment</p> <p>21 is calibrated?</p> <p>22 A. When needed. When required.</p> <p>23 Q. Okay. And what tells you when it's required?</p> <p>24 Is that just specified by the manufacturer or --</p> <p>25 A. It's on a computer program. You plug the</p>	<p style="text-align: right;">136</p> <p>1 when you say "better rise," are you -- is it better to</p> <p>2 have more water move or not as good?</p> <p>3 A. You want water to move.</p> <p>4 Q. And do you know whether it was a linear</p> <p>5 transducer that you used?</p> <p>6 A. I think on this project, yes.</p> <p>7 Q. And for the uneducated among us, how do you --</p> <p>8 how did you -- did you check to see if it was a linear</p> <p>9 transducer? Do you recall?</p> <p>10 A. At the time, yeah.</p> <p>11 Q. And so how do you check?</p> <p>12 A. There are settings you can put on the</p> <p>13 equipment.</p> <p>14 Q. Okay. So there's just a linear transducer</p> <p>15 setting?</p> <p>16 A. Yeah.</p> <p>17 Q. Now, we talked about the calibration with the</p> <p>18 manufacturer. You send it back to the manufacturer to</p> <p>19 have it calibrated. (Indicating.)</p> <p>20 A. Yeah.</p> <p>21 Q. Did you do any kind of testing in the field,</p> <p>22 zero out the transducer in any way before you utilized</p> <p>23 it?</p> <p>24 A. No.</p> <p>25 Q. And -- and I can -- I have some documents that</p>
<p style="text-align: right;">135</p> <p>1 thing into a computer and it tells you.</p> <p>2 Q. Oh, okay.</p> <p>3 And just to clarify, it tells you when it</p> <p>4 needs to be calibrated?</p> <p>5 A. Correct.</p> <p>6 Q. Okay. So you said that you --</p> <p>7 A. There may even be a depth -- a date stamped on</p> <p>8 it.</p> <p>9 Q. Okay. So you -- so at some point here, then,</p> <p>10 you've got your transducer in and then you -- in the</p> <p>11 boring and then you said you put your slug in?</p> <p>12 A. Correct.</p> <p>13 Q. Okay. And how do you do that? Do you just</p> <p>14 have it on a line or --</p> <p>15 A. It's on a line.</p> <p>16 Q. Okay.</p> <p>17 A. It's lowered into the well. And I can't</p> <p>18 remember on this project, but a lot of times we'll use</p> <p>19 different lengths of -- of slugs to put in the wells and</p> <p>20 we may try multiple lengths.</p> <p>21 Q. And why would you do multiple lengths if you</p> <p>22 were going to do multiple lengths?</p> <p>23 A. To see which one, you know, gives you a better</p> <p>24 rise, you know -- you know, movement of water.</p> <p>25 Q. Okay. And do you want -- I mean, are you --</p>	<p style="text-align: right;">137</p> <p>1 might help refresh your memory. But do you -- or maybe</p> <p>2 this is something that's standard. I don't know.</p> <p>3 But do you recall how fast the transducer</p> <p>4 was collecting the data?</p> <p>5 A. I can't. It's -- I mean, it's like</p> <p>6 (indicating).</p> <p>7 Q. Does it matter? I mean, does it matter how</p> <p>8 fast the transducer collects the data?</p> <p>9 A. I don't know what you mean by "matter."</p> <p>10 Q. Well, and that's a good clarification.</p> <p>11 Does it -- is the speed at which the data</p> <p>12 is collected, is that something that is one of the</p> <p>13 parameters that is chosen for an individual project</p> <p>14 based on specific -- site specific conditions or is it a</p> <p>15 matter of preference, some people like faster data, some</p> <p>16 people like slower data? That's really what I mean.</p> <p>17 And I realize this might seem like weird questions, but</p> <p>18 keep in mind I have no idea what we're talking about</p> <p>19 here.</p> <p>20 A. I don't know. I -- I don't know, because I</p> <p>21 don't understand the question.</p> <p>22 Q. Okay. Well, then let me say this.</p> <p>23 So you don't recall how fast the data was</p> <p>24 collected?</p> <p>25 A. No.</p>

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139	<p>1 A. -- drive me to the location.</p> <p>2 Q. Okay. And so was Mike Snyder or anyone from</p> <p>3 Biggs and Mathews present on site when you were doing</p> <p>4 these slug tests?</p> <p>5 A. I don't remember.</p> <p>6 Q. Is that something that you would have noted in</p> <p>7 your field notes or on your -- whatever -- well, I guess</p> <p>8 it would be your field notes in this case.</p> <p>9 A. If he showed up?</p> <p>10 Q. Yeah.</p> <p>11 A. Probably not.</p> <p>12 Q. Okay. I just didn't know if it was like a</p> <p>13 team effort or --</p> <p>14 And when you were doing the slug tests in</p> <p>15 the field, did you -- I know that you were collecting</p> <p>16 the data.</p> <p>17 A. Uh-huh.</p> <p>18 Q. And that was your primary role, is that right?</p> <p>19 A. Correct.</p> <p>20 Q. Did you do any sort of hand calculations --</p> <p>21 A. Huh-uh.</p> <p>22 Q. -- with the data?</p> <p>23 A. No.</p> <p>24 Q. No. Okay.</p> <p>25 And then how did you transmit the data,</p>	141	<p>1 Q. Okay. And I think we talked about how you</p> <p>2 took the water levels for these piezometers in the</p> <p>3 beginning and you said you did it with an electronic --</p> <p>4 A. Electronic water level indicator.</p> <p>5 Q. Electronic water level indicator.</p> <p>6 A. Slower.</p> <p>7 Q. Got it. See, you're dealing with tiredness.</p> <p>8 I'm dealing with cedar. So between the two of us --</p> <p>9 A. Cedars?</p> <p>10 Q. Yes. Cedar season. It's bad. It's pretty</p> <p>11 bad right now, but I digress.</p> <p>12 So we have this Step 1, take the water</p> <p>13 level. Then you said program and insert the transducer,</p> <p>14 and you've given some great information about the</p> <p>15 transducer.</p> <p>16 What do you mean by program it --</p> <p>17 programming the transducer? What do you have to program</p> <p>18 it for?</p> <p>19 A. To retrieve the data.</p> <p>20 Q. Okay. And can you give me an idea about how</p> <p>21 you do that? Do you just push a button or do you</p> <p>22 actually have to enter specific information?</p> <p>23 A. No. You enter specific information.</p> <p>24 Q. Okay. And what specific information do you --</p> <p>25 or did you enter when you were --</p>

<p style="text-align: right;">142</p> <p>1 A. I -- I can't remember. Well number, stuff 2 like that. It asks a series of questions. I can't 3 remember all. 4 Q. So you just follow whatever questions the 5 transducer provides, is that right? 6 A. Correct. 7 Q. So do you -- and then you insert -- you said 8 you insert the transducer. You insert it into the 9 piezometer? 10 A. Correct. 11 Q. And then does the transducer have to do 12 anything before you drop the slug? It sounds like these 13 transducers are amazing. But does it -- does the 14 transducer need time to -- I don't know. 15 I mean, do you have to wait for a certain 16 period of time between when you put the transducer in 17 the well and when you drop the -- 18 A. Slug. 19 Q. -- slug in? 20 A. Push a button. 21 Q. Okay. You push a button on the transducer? 22 A. On the apparatus that the service -- 23 Q. Okay. So -- 24 A. Or a computer -- or a laptop these days. I 25 mean, there's different ones, but it has a cord that</p>	<p style="text-align: right;">144</p> <p>1 A. Period of time? 2 Q. That's a good -- fair question. 3 Is there any reason that you would allow a 4 period of time to pass from the time when you insert the 5 transducer and the time that you drop the slug? 6 A. (Indicating) yes. 7 Q. Okay. And why would you do that? Why would 8 you allow that period of time to pass between those two 9 activities? 10 A. To let the well equilibrate. 11 Q. And what does that mean? 12 A. Well, you inserted an object into the water 13 and it rose. So you want it to equilibrate back. 14 Q. And how long do you have a period of time that 15 you wait? 16 A. It's well specific. 17 Q. Well specific? 18 A. Yeah. 19 Q. Okay. And so for each of the wells -- each of 20 the piezometers that we're talking about associated with 21 this project where you conducted these slug tests for 22 each eight of these, when you were doing these tests, 23 did you wait this period of time for the well to 24 equilibrate after you inserted the transducer on each 25 one?</p>
<p style="text-align: right;">143</p> <p>1 goes to it. It's plugged in. 2 Q. You're talking about with the slug or are you 3 talking about the transducer? 4 A. Transducer. 5 Q. Okay. So I'm still unclear. You put the 6 transducer in the well, and do you immediately drop the 7 slug in after it or do you wait for a period of time? 8 A. You can wait -- you can wait a few minutes. I 9 mean, you're getting everything ready. I don't -- I 10 mean, it's not a -- it's not instantaneous deal, but -- 11 yeah. 12 Q. Okay. But it's not -- 13 A. But when you get ready to drop it, it is. 14 Q. How do you know when you're ready to drop it, 15 drop the slug, in other words? 16 A. You put the transducer in there. You measure 17 the length of the cord of the slug. You get it ready. 18 One person holds it on top. One person pushes a button 19 and you drop the slug in. 20 Q. Okay. So in other words, what I'm hearing you 21 say is that there's no -- there's no reason that you 22 would -- there's no reason that there's space between 23 these steps or there's no reason that you would put time 24 in between these two steps of when you insert the 25 transducer and when you drop the slug?</p>	<p style="text-align: right;">145</p> <p>1 A. Yes. 2 Q. And did you record that time period anywhere? 3 A. Probably verified it with electronic water 4 level indicator and then went down the road. No. 5 Q. So you didn't write it down anyplace? 6 A. If it equilibrated back, no. 7 Q. Okay. So after the equilibration, then you 8 dropped the slug? 9 A. Yes, ma'am. 10 Q. And actually, can you -- I know you -- how 11 big -- you were talking about the size of the slug and 12 measuring the slug and things like that. 13 A. Uh-huh. 14 Q. How big is the transducer that you're putting 15 in these wells? 16 A. An actual transducer? 17 Q. Yeah. How big -- 18 A. About maybe a foot long. 19 Q. A foot -- okay. A foot long and then I guess 20 really skinny? 21 A. Pretty skinny. 22 Q. Pretty skinny. Okay. 23 And I think you mentioned that you dropped 24 different -- or that you sometimes do different sizes of 25 slugs?</p>

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147	<p>1 A. Yeah. Gather enough data so they can make an</p> <p>2 interpretation.</p> <p>3 Q. Okay.</p> <p>4 A. Because I -- I don't know what the stuff is.</p> <p>5 I mean, I'm gathering data. If it's not good, Stef has</p> <p>6 to go back.</p> <p>7 Q. Got it.</p> <p>8 So when you dropped the slug, what -- say</p> <p>9 you have -- what is one of the sizes of slugs that you</p> <p>10 have?</p> <p>11 A. Ten-foot.</p> <p>12 Q. Ten-foot.</p> <p>13 So if you drop a ten-foot slug into one of</p> <p>14 these piezometers, how much -- I think you said you</p> <p>15 watched the water rise?</p> <p>16 A. Well, you don't watch it rise.</p> <p>17 Q. Well, you don't watch it rise. Okay. So the</p> <p>18 water rises.</p> <p>19 What's the maximum that you would expect</p> <p>20 the water to rise --</p> <p>21 A. No idea.</p> <p>22 Q. -- with a ten-foot slug?</p> <p>23 A. Whatever the volume is.</p> <p>24 Q. The volume of the slug?</p> <p>25 A. Yeah. But then it's dependent on how much is</p>	149	<p>1 utilized, is that one of the pieces of data that you</p> <p>2 transmit to Biggs and Mathews?</p> <p>3 A. Yes.</p> <p>4 Q. Okay. So you drop the slug and then you said</p> <p>5 that you allow the test to complete.</p> <p>6 A. Uh-huh.</p> <p>7 Q. What do you mean by that?</p> <p>8 A. You allow it to get back to equilibrium.</p> <p>9 Q. Okay. So the -- you allow the water level to</p> <p>10 return to equilibrium?</p> <p>11 A. Correct.</p> <p>12 Q. And how do you know that it's returned to</p> <p>13 equilibrium?</p> <p>14 A. There's a couple of ways, but you can watch</p> <p>15 the -- the little counter on that little computer or</p> <p>16 whatever and it gets back to --</p> <p>17 Q. The computer that's hooked up to the</p> <p>18 transducer?</p> <p>19 A. Yeah.</p> <p>20 Q. So --</p> <p>21 A. Or the box. Whatever apparatus you have at</p> <p>22 that particular time. I can't remember which one we</p> <p>23 used. It was either a box that they rented us or I had</p> <p>24 it on the computer. I can't remember which one.</p> <p>25 Q. A box?</p>

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<p style="text-align: right;">150</p> <p>1 A. Yeah. You know, it's a -- it's a -- a box -- 2 like a retrieval box. You know, I mean, it's a... 3 Q. Is it something that is -- that comes with the 4 transducer? 5 A. Yeah. Yes. Yes. 6 Q. Okay. So one way or the other, that is 7 mechanically measured, the equilibration -- when you 8 reach equilibration, it's -- 9 A. Yes, ma'am. 10 Q. Okay -- mechanically measured? 11 All right. And then after the 12 equilibration takes place, do you -- and you said you -- 13 then you remove the slug? 14 A. You can stop the test and then you can hit a 15 couple of buttons and then restart the test when you 16 pull the slug out. 17 Q. Okay. And is that what you did on these 18 particular slug tests? 19 A. I think we did do rising and falling head 20 tests. Uh-huh. 21 Q. And can you tell me just briefly what a -- 22 just describe again what a rising head slug test is and 23 what a falling head slug test is? 24 A. Yes. When you put a slug in, the water level 25 risers and it falls back to equilibrium. And when you</p>	<p style="text-align: right;">152</p> <p>1 Q. Okay. And I think I asked you this before, 2 but have you -- you've done a lot of these slug tests, 3 right? 4 A. Yeah. Yeah. 5 Q. So hundreds? 6 A. Maybe 50. I don't know. 7 Q. Maybe what? 8 A. 50. 9 Q. 50. Okay. 10 A. A hundred. 11 Q. So this isn't something that you -- you know, 12 you've listed all of those different sites for which 13 you've done -- you know, participated in subsurface 14 investigations -- 15 A. Right. 16 Q. -- in these landfill sites. 17 You haven't done slug tests for most of 18 those or you haven't done slug tests for those sites? 19 A. If the project called for slug tests, we did 20 slug tests. 21 Q. Okay. 22 A. I mean -- 23 Q. I'm trying to understand. Here's where you're 24 losing me. You mentioned a bunch of projects that were 25 just located in the Houston area. You're saying that</p>
<p style="text-align: right;">151</p> <p>1 pull the slug out -- when you pull the cylinder out, it 2 risers back to equilibrium. 3 Q. And so which one's -- the falling one is the 4 first one you described? 5 A. No. 6 Q. Or is it the -- 7 A. The -- the -- yeah, the first one is the 8 falling and the second one is the -- it rises back to 9 equilibrium. Yeah. 10 Q. Okay. So you're measuring -- you're measuring 11 those occurrences then, the -- 12 A. Correct. 13 Q. -- the rising and the -- 14 A. Falling. Uh-huh. 15 Q. -- and the falling? 16 And that's what the transducer is 17 measuring? 18 A. That's what the transducer is measuring. 19 Q. Okay. And as best you can recall, that's 20 the -- that's the process that you followed for the -- 21 testing these eight wells or conducting these eight slug 22 tests? Actually, I shouldn't say eight slug tests. For 23 conducting the slug tests on these eight piezometers? 24 A. If we -- yeah. If we did eight, yes. I 25 don't...</p>	<p style="text-align: right;">153</p> <p>1 you've maybe taken 50 slug tests. I will represent to 2 you that you took eight times four slug tests at this 3 particular location. That's a big chunk of 50. So I'm 4 trying to match up that 50 number with the number of 5 sites that you're talking about. And that doesn't -- 6 that doesn't seem to -- and I realize that it's hard to 7 remember, but I'm asking for your best estimate. I 8 mean, if you do that many for each site, then that would 9 be two sites that you've done in your entire career. 10 A. Okay. When you said "slug tests" -- 11 Q. Uh-huh. 12 A. -- I thought you were talking about at a site, 13 not each individual test. Sorry. 14 Q. No, no. That's okay. 15 So you're saying -- you're saying 50, but 16 what you were referring to was 50 -- you were talking 17 about the individual piezometers on which you did the 18 slug tests, 50 of those? 19 A. Yeah. Something like that. 20 Q. Okay. And I realize these questions are 21 frustrating, but you are under oath. So you do need 22 to -- 23 A. No. No, I -- 24 Q. -- kind of take this a little bit seriously, 25 okay?</p>

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154	<p>1 A. I am taking this seriously.</p> <p>2 Q. Okay. Your body language is suggesting</p> <p>3 otherwise.</p> <p>4 A. Well, I wouldn't look at my body language.</p> <p>5 Okay? Just listen to the answers, please.</p> <p>6 Q. I am listening to the answers and you're</p> <p>7 shaking your head and saying, I don't know, shrugging</p> <p>8 your shoulders like you really don't care. And I</p> <p>9 understand --</p> <p>10 A. No. I really can't remember. Okay?</p> <p>11 Q. Okay.</p> <p>12 A. So it's not like that's a metric that I</p> <p>13 measure.</p> <p>14 Q. And I can understand that. And I'm not asking</p> <p>15 you necessarily to measure it. I was correlating what</p> <p>16 you told me before with what you just told me now in</p> <p>17 terms of that. And that's why I was asking those</p> <p>18 follow-up questions --</p> <p>19 A. Okay.</p> <p>20 Q. -- because it did not make sense to me.</p> <p>21 And while we're talking about the other</p> <p>22 sites that you have worked on, I think that you said</p> <p>23 that you have done a number of projects with Biggs and</p> <p>24 Mathews.</p> <p>25 What are the other engineering firms that</p>	156	<p>1 Q. And going back to Biggs and Mathews for a</p> <p>2 moment --</p> <p>3 A. Uh-huh.</p> <p>4 Q. -- do you recall -- with respect to the -- I</p> <p>5 know that you put together the proposal -- the initial</p> <p>6 proposal that we talked about earlier. And I do not</p> <p>7 recall which exhibit that was. Let me look.</p> <p>8 MS. NICHOLS: 7.</p> <p>9 Q. (BY MS. JACOBS) Ah, 7.</p> <p>10 A. 7.</p> <p>11 Q. So you put together Exhibit 7, and you had</p> <p>12 said that Mike Snyder provided you with the parameters.</p> <p>13 A. Uh-huh.</p> <p>14 Q. And you in response came up with what is</p> <p>15 Exhibit 7, is that right?</p> <p>16 A. I came up with the cost, yes, ma'am.</p> <p>17 Q. You came up with the cost.</p> <p>18 So -- so how did Mike Snyder communicate</p> <p>19 those parameters that he needed to you? Did he do that</p> <p>20 over the phone?</p> <p>21 A. Probably so. He called me up, said, Hey, we</p> <p>22 need 36 borings to these depths, here's how I want to</p> <p>23 sample. Here's how many piezometers that we think we're</p> <p>24 going to install, so give me estimates for these to this</p> <p>25 depth and this depth. You're going take water levels</p>
155	<p>1 you typically do this type of work for, the type of work</p> <p>2 we've been discussing today during your deposition?</p> <p>3 A. Golder, Geosyntec. I don't know. That's all</p> <p>4 I can recall at this point.</p> <p>5 Q. Okay. So would you say that you do the</p> <p>6 majority of your work for Biggs and Mathews?</p> <p>7 A. No.</p> <p>8 Q. Who do you do the majority of your work for?</p> <p>9 A. Waste Management.</p> <p>10 Q. And those 50 facilities or estimated</p> <p>11 50 facilities that you are currently working on</p> <p>12 groundwater projects for that we talked about in the</p> <p>13 beginning of the deposition, what are those companies?</p> <p>14 Waste Management is one of them?</p> <p>15 A. Republic Services.</p> <p>16 Q. Republic.</p> <p>17 Any other ones?</p> <p>18 A. G.O. Weiss, Casco, City of Big Springs,</p> <p>19 City of Odessa, U.S. Ecology, McCarty Road.</p> <p>20 Q. And are those projects you are -- what type of</p> <p>21 work are you doing?</p> <p>22 A. Groundwater sampling, field exploration.</p> <p>23 Q. Like the kind of field exploration we've been</p> <p>24 talking about today?</p> <p>25 A. Correct.</p>	157	<p>1 for a year. You're going to do eight slug tests. So we</p> <p>2 put together a proposal.</p> <p>3 Q. Okay.</p> <p>4 A. We're going have to take a break because I've</p> <p>5 got to -- I've got to go to the restroom. I'm sorry.</p> <p>6 Q. No problem.</p> <p>7 (Recess from 3:01 p.m. to 3:15 p.m.)</p> <p>8 Q. (BY MS. JACOBS) I think I may have</p> <p>9 misunderstood you when we were talking about the slug</p> <p>10 tests.</p> <p>11 A. Yes, ma'am.</p> <p>12 Q. And you said that you had -- I thought you had</p> <p>13 said that -- are you --</p> <p>14 A. Yeah.</p> <p>15 Q. -- doing something?</p> <p>16 A. No, no. Actually, I was trying to help her.</p> <p>17 She asked me to and I just had one that we had to</p> <p>18 correct.</p> <p>19 Q. Gotcha.</p> <p>20 A. We're good. Yeah, we're good.</p> <p>21 Q. So when you were talking about the slug tests</p> <p>22 and I was asking you about the number of slug tests that</p> <p>23 you have conducted --</p> <p>24 A. Yeah.</p> <p>25 Q. -- in the course of your career and you said</p>

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<p style="text-align: right;">158</p> <p>1 something like 50, is that 50 in reference to the actual 2 number of times you have dropped a transducer in a well? 3 A. No. 4 Q. Okay. What did you mean when you said 50? 5 A. Number of sites, tests (indicating). 6 Q. So the number of sites -- okay. See, that's 7 what I was misinterpreting there. So number of sites. 8 But you're not saying -- you're saying 9 50 different locations and 50 different projects on 10 which you have done slug tests? 11 A. Correct. Correct. 12 Q. Okay. 13 A. Approximately. 14 Q. And at those 50 sites, you have no idea how 15 many tests in toto you may have conducted in your 16 career? 17 A. (Nods negatively.) No. 18 Q. Okay. And at those 50 sites, would that be 19 projects similar to the one that we've been discussing 20 today -- the investigation project we've been discussing 21 today? 22 A. No. 23 Q. Okay. What would those 50 sites where you've 24 done slug tests -- what kinds of projects were you 25 engaged in at those sites that necessitate a slug test?</p>	<p style="text-align: right;">160</p> <p>1 Mike Snyder gave you that particular set of parameters 2 for you to include in this proposal. 3 A. Correct. 4 Q. Is that right? 5 A. Correct. 6 Q. Do you recall when you got the instructions to 7 change the number of piezometers to less than 24 to the 8 number that you actually ended up completing? 9 A. No. But if we did less, I didn't charge them 10 that amount of money, if that's what you're getting at. 11 I didn't -- I -- I don't know. I can't remember. It 12 had to be within -- before I finished drilling them, but 13 I don't know. I -- I really don't. 14 Q. Do you -- would Mike have been the one that 15 made that decision? 16 A. Absolutely. 17 Q. And do you recall at which other sites you 18 have conducted slug tests for on behalf of Biggs and 19 Mathews? 20 A. Fairbanks North Houston, Atascocita Landfill. 21 Q. Can you spell that? I couldn't tell -- 22 A. Atascocita. 23 Q. Atascocita with an A in front of it? 24 A. I think it's A-T-A-S-C-O-C-I-T-A. 25 Q. Okay.</p>
<p style="text-align: right;">159</p> <p>1 A. I mean, they weren't permit applications. 2 They were other determination of aquifer parameters 3 for -- you know, they're trying to establish hydraulic 4 conductivity. 5 Q. Okay. And you said that you sent the results 6 from the slug tests to Biggs and Mathews, is that 7 correct? 8 A. Correct. 9 Q. When you work with Biggs and Mathews, do you 10 know who analyzes the data -- 11 A. I do not. 12 Q. -- from the slug test? 13 A. I do not. I -- someone at their office. I 14 don't know. 15 Q. Going back to Exhibit 7 -- 16 A. Yes, ma'am. Yes. 17 Q. We talked about this previously on Page 2, 18 Task 2. 19 A. Uh-huh. 20 Q. And I think I remember you saying that -- I 21 asked you about, you know, the proposal here was for 24 22 piezometers, 12 at an 80-foot depth and 12 at a 50-foot 23 depth, is that right? 24 A. Correct. 25 Q. And I think I remember you telling me that</p>	<p style="text-align: right;">161</p> <p>1 A. Atascocita. 2 Q. I won't hold you to that. I just couldn't -- 3 A. Yeah. 4 Q. I couldn't, yeah, understand. 5 Any other ones that you can remember? 6 THE WITNESS: I wrote on that. I'm 7 sorry. 8 THE REPORTER: That's okay. 9 A. I can't think of any. I'm sure there is more. 10 I just can't think. If I think of one, I'll tell you. 11 Q. (BY MS. JACOBS) Thank you. 12 With respect to the Exhibit No. 11 there 13 in front of you, I don't think that -- I think you said 14 that you did not create that particular map, although 15 you wrote on it. 16 A. Doodled on it. 17 Q. Doodled on it. Okay. 18 Did you have any involvement in preparing 19 the soil boring plan that was submitted to TCEQ -- to 20 the Texas Commission on Environmental Equality? 21 A. This project? 22 Q. Yes. 23 A. No. 24 Q. Did you review it, the soil boring plan? 25 A. No.</p>

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162	<p>1 Q. You feel confident about that? Do you need to</p> <p>2 refresh your memory?</p> <p>3 A. I don't think I did.</p> <p>4 Q. Okay.</p> <p>5 A. I'm...</p> <p>6 Q. And did you ever receive a copy of the soil</p> <p>7 boring plan approval letter that came from TCEQ?</p> <p>8 A. I don't think so. I may have gotten a copy.</p> <p>9 I don't know.</p> <p>10 Q. Okay. Does that -- does it -- does approval</p> <p>11 from -- and I think -- I think in your website it</p> <p>12 mentions being familiar with state and federal</p> <p>13 regulations.</p> <p>14 A. Correct. Yeah.</p> <p>15 Q. I think that was one of your things.</p> <p>16 A. Yeah. Yeah.</p> <p>17 Q. So is that something that you look for before</p> <p>18 you begin a project? Do you look for an approval letter</p> <p>19 from TCEQ before you begin executing your boring plan?</p> <p>20 A. Drilling out in the field?</p> <p>21 Q. Yeah. And I should say -- and I'm going to</p> <p>22 specify and say for when you're doing an investigation</p> <p>23 like the one we've been talking about, that's detailed</p> <p>24 in Exhibit 7, to, you know, look at the subsurface</p> <p>25 for -- in preparation for a potential landfill.</p>	164	<p>1 Q. (BY MS. JACOBS) So what you've been handed</p> <p>2 and have been looking through for us is a copy of the</p> <p>3 documents that you brought with you here today, is that</p> <p>4 right?</p> <p>5 A. Correct.</p> <p>6 Q. And is this a true and correct copy of your --</p> <p>7 contents of your file on this project?</p> <p>8 A. Yes, ma'am.</p> <p>9 Q. When we add it with -- you also brought</p> <p>10 Exhibit -- what is now Exhibit 18 -- or sorry,</p> <p>11 Exhibit 11 --</p> <p>12 A. 11, 7.</p> <p>13 Q. -- and Exhibit 8.</p> <p>14 A. Oh, okay. Exhibit 8. Yeah.</p> <p>15 Q. I believe. Okay.</p> <p>16 So all of those put together, that's a</p> <p>17 correct copy of your files, is that right?</p> <p>18 A. Yes.</p> <p>19 Q. And do you have any other documents in your</p> <p>20 possession, e-mails --</p> <p>21 A. No.</p> <p>22 Q. -- maps?</p> <p>23 A. Not to my knowledge.</p> <p>24 Q. Okay. Have you searched for them?</p> <p>25 A. I have.</p>
163	<p>1 A. I don't know. I don't -- I don't know if we</p> <p>2 always get an approval before we start drilling.</p> <p>3 (Sotto voce discussion between</p> <p>4 Ms. Nichols and Ms. Jacobs)</p> <p>5 Q. (BY MS. JACOBS) And what she was talking</p> <p>6 about, she was just reminding me we're going to have you</p> <p>7 identify the documents that you brought with you today</p> <p>8 for the record.</p> <p>9 A. Okay. Absolutely.</p> <p>10 From my copy?</p> <p>11 MS. NICHOLS: No. We're going to hand</p> <p>12 you another one. If you want to compare, you can. Oh.</p> <p>13 Q. (BY MS. JACOBS) If you don't feel confident</p> <p>14 that this is a true copy of what you brought, then you</p> <p>15 can compare them. But we were just -- we're going to</p> <p>16 have them stamped --</p> <p>17 MS. NICHOLS: We'll give it to the --</p> <p>18 MS. JACOBS: Yeah.</p> <p>19 MS. NICHOLS: -- court reporter.</p> <p>20 MS. JACOBS: And --</p> <p>21 MS. NICHOLS: So it's that stuff plus --</p> <p>22 we can go off the record.</p> <p>23 MS. JACOBS: Yeah. Let's go off the</p> <p>24 record just a second.</p> <p>25 (Recess from 3:26 p.m. to 3:28 p.m.)</p>	165	<p>1 Q. Okay.</p> <p>2 MS. NICHOLS: Let's mark that as an</p> <p>3 exhibit.</p> <p>4 THE WITNESS: It's what?</p> <p>5 MS. JACOBS: We need to mark that stack</p> <p>6 of documents.</p> <p>7 THE REPORTER: It will be 13.</p> <p>8 MS. JACOBS: Mark that Exhibit 13.</p> <p>9 (Exhibit 13 marked)</p> <p>10 A. Is this -- is this one?</p> <p>11 Q. (BY MS. JACOBS) No. Not unless you have a</p> <p>12 copy from the technically complete application.</p> <p>13 MS. NICHOLS: No, that's our Exhibit 12.</p> <p>14 A. No, but you wrote 12 on there.</p> <p>15 Q. (BY MS. JACOBS) It's an exhibit, but it's</p> <p>16 not --</p> <p>17 A. Oh, yeah. It wasn't one of mine.</p> <p>18 Q. -- one of your --</p> <p>19 A. It wasn't mine.</p> <p>20 Q. -- pieces of paper --</p> <p>21 A. Okay. Yeah.</p> <p>22 Q. -- right. Right.</p> <p>23 A. Does this go in this stack?</p> <p>24 Q. That's actually my copy.</p> <p>25 A. Okay. Okay.</p>

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166	<p>1 Q. The official ones have a little sticker on it.</p> <p>2 A. Okay.</p> <p>3 Q. Great.</p> <p>4 MS. JACOBS: Okay. I am going to pass</p> <p>5 the witness.</p> <p>6 EXAMINATION</p> <p>7 BY MR. WOODWARD:</p> <p>8 Q. Mr. Stamoulis, I'm Mike Woodward.</p> <p>9 A. Nice to meet you.</p> <p>10 Q. Thank you. Nice to meet you.</p> <p>11 I have just a few follow-up questions to</p> <p>12 ask you.</p> <p>13 A. Yes, sir.</p> <p>14 Q. Going back to the e-mail that was marked</p> <p>15 Exhibit 4, there was mention of a Peterson tract.</p> <p>16 A. Yes, sir.</p> <p>17 Q. And these were for some preliminary borings on</p> <p>18 two Waller County tracts. So it sounds like Peterson</p> <p>19 tract is also in Waller County. And I believe you</p> <p>20 testified that you did not remember anything about the</p> <p>21 Peterson tract.</p> <p>22 A. Correct. I don't remember.</p> <p>23 Q. So you don't believe you did any work at</p> <p>24 anyplace called the Peterson tract?</p> <p>25 A. No, sir.</p>	168	<p>1 information to, in this instance, Biggs and Mathews,</p> <p>2 they prepare a draft log that is sent to you for your</p> <p>3 review?</p> <p>4 A. Yes, sir.</p> <p>5 Q. And is your review just based upon your memory</p> <p>6 at that point?</p> <p>7 A. No. I think they send the other logs along</p> <p>8 with it and I just verify.</p> <p>9 Q. What do you do with the draft logs and the</p> <p>10 field logs that they send back to you?</p> <p>11 A. If I don't send them back, I destroy them.</p> <p>12 Q. Did you do any work in Caldwell County for</p> <p>13 Biggs and Mathews?</p> <p>14 A. I did.</p> <p>15 Q. For the 130 Environmental Park?</p> <p>16 A. I did, yes, sir.</p> <p>17 Q. I had a question about Exhibit 11.</p> <p>18 A. Yes, sir.</p> <p>19 Q. Was this a map that you took out into the</p> <p>20 field with you to -- when you were going to do the 36</p> <p>21 borings?</p> <p>22 A. A copy of it probably, yeah. This -- maybe</p> <p>23 not this exact one, but, yes, sir, a version of it.</p> <p>24 Q. Okay. And these -- you said the blue markings</p> <p>25 on there are your hand -- from your hand?</p>
167	<p>1 Q. Okay. When the exploratory borings were</p> <p>2 conducted in December of 2010 --</p> <p>3 A. Yes, sir.</p> <p>4 Q. -- was Krystal Nichols with you at that event,</p> <p>5 I think December 14th, December 15th?</p> <p>6 A. No, sir. No, sir. I don't believe so.</p> <p>7 Q. So you handled the boring logs by yourself</p> <p>8 that day?</p> <p>9 A. Correct.</p> <p>10 Q. Was Mike Snyder with you?</p> <p>11 A. I don't think Snyder came out on those first</p> <p>12 six. I don't think he came out on his first six, no.</p> <p>13 Q. When you're conducting borings like that, do</p> <p>14 you maintain any kind of notebook or any kind of log to</p> <p>15 keep track of samples taken and how they're preserved</p> <p>16 and where they're sent?</p> <p>17 A. Other than the boring -- the field boring log,</p> <p>18 no, sir.</p> <p>19 Q. So the field boring log is where all the</p> <p>20 information is entered?</p> <p>21 A. Yes, sir.</p> <p>22 Q. Do you -- and you don't retain a copy of the</p> <p>23 field boring log?</p> <p>24 A. I do not.</p> <p>25 Q. So as I understand it, when you send all that</p>	169	<p>1 A. Yes, sir.</p> <p>2 Q. Is the red also your markings?</p> <p>3 A. I don't know. Yeah. Probably. I don't know.</p> <p>4 Q. Do you know what that signifies, if anything?</p> <p>5 A. No. No.</p> <p>6 Q. Okay.</p> <p>7 A. I could have been talking on the phone.</p> <p>8 Q. When you went out to do the 36 borings summer</p> <p>9 of 2012, correct -- or no, it would have been summer of</p> <p>10 2011. My mistake.</p> <p>11 A. Yes, sir. '11.</p> <p>12 Q. And those borings were conducted over the</p> <p>13 course of period from July to August?</p> <p>14 A. I believe that's what we said. A month period</p> <p>15 of time.</p> <p>16 Q. And as I understand it, you had two rigs</p> <p>17 operating out there?</p> <p>18 A. Yes, sir.</p> <p>19 Q. And Krystal Nichols was with one rig and you</p> <p>20 were with the other rig?</p> <p>21 A. Yes, sir.</p> <p>22 Q. Do you know if Krystal Nichols was creating</p> <p>23 field logs also?</p> <p>24 A. She was not.</p> <p>25 Q. How were the samples being logged while you</p>

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170	<p>1 were sitting on another rig?</p> <p>2 A. She obtained the samples and I logged them on</p> <p>3 site.</p> <p>4 Q. How would this -- how would that work?</p> <p>5 A. All samples are retained and bagged. And so I</p> <p>6 would look at the samples.</p> <p>7 Q. Would the rigs be operating simultaneously?</p> <p>8 A. Yes, sir.</p> <p>9 Q. And so explain to me, then, how she would</p> <p>10 preserve the sample for you to --</p> <p>11 A. To look at.</p> <p>12 Q. -- look at?</p> <p>13 A. Yes, sir.</p> <p>14 Q. How would she identify it?</p> <p>15 A. She would grab a sample, put it in a bag, cut</p> <p>16 a piece off for me to look at and I'd come to the table</p> <p>17 and look at it.</p> <p>18 Q. Would she then just tell you it was from which</p> <p>19 depth and from which hole or she wouldn't take no notes</p> <p>20 on it?</p> <p>21 A. She would probably take a pocket penetrometer</p> <p>22 and put the depth, the sample number on the back, yes,</p> <p>23 sir.</p> <p>24 Q. Okay.</p> <p>25 A. But I would describe the samples because she</p>	172	<p>1 of the boring it would be a dry --</p> <p>2 A. Auger.</p> <p>3 Q. -- auger.</p> <p>4 I think you also used the term "solid</p> <p>5 stem"?</p> <p>6 A. No, sir.</p> <p>7 Q. No?</p> <p>8 A. She did. I said a drill rod with a bit on it.</p> <p>9 Q. Okay. So when you're doing a drill rod with a</p> <p>10 bit on it, it's just chewing up the rock and the dirt</p> <p>11 and it's coming up and how -- what kind of matrix is the</p> <p>12 soil coming up in?</p> <p>13 A. When you're drilling or sampling?</p> <p>14 Q. When you're drilling and --</p> <p>15 A. We continuously sample to 30 foot. So what</p> <p>16 you would do is you'd push a Shelby tube or a split</p> <p>17 spoon, and then to get the cuttings that are -- were on</p> <p>18 the side of the hole, you'd go down with a -- a bit and</p> <p>19 pull it out and go back down with a -- to take another</p> <p>20 sample. So the samples came out as Shelby tubes or they</p> <p>21 were driven with a split spoon sampler. So all samples</p> <p>22 were retained either by a Shelby tube or a split spoon.</p> <p>23 Q. And you're able to -- do you have to pull the</p> <p>24 rod and the bit out to then go back in and take those</p> <p>25 samples?</p>
171	<p>1 was in training.</p> <p>2 Q. I'm trying to envision this. So you would be</p> <p>3 at another part of the property behind the rig. She</p> <p>4 would take the samples and --</p> <p>5 A. Line them up.</p> <p>6 Q. -- line them up in a bag and put them on a</p> <p>7 table and --</p> <p>8 A. Well, they put them in a box, yes, sir. I</p> <p>9 physically looked at every sample and logged every</p> <p>10 boring.</p> <p>11 Q. And every one of those went to Biggs and</p> <p>12 Mathews?</p> <p>13 A. The samples?</p> <p>14 Q. Yes.</p> <p>15 A. Yes, sir.</p> <p>16 Q. And the --</p> <p>17 A. Through transport.</p> <p>18 Q. And the -- every observation went to</p> <p>19 Biggs and Mathews also?</p> <p>20 A. Yes, sir. The logs. The field logs.</p> <p>21 Q. Field logs --</p> <p>22 A. Yes.</p> <p>23 Q. -- that contain the observations?</p> <p>24 A. Yes, sir.</p> <p>25 Q. You had mentioned that during the shallow part</p>	173	<p>1 A. Every time.</p> <p>2 Q. So when I look at these boring logs that -- on</p> <p>3 the EB -- I think it's Exhibit No. 6.</p> <p>4 A. Yes, sir. 6?</p> <p>5 Q. Yes, sir.</p> <p>6 A. Uh-huh.</p> <p>7 Q. So just looking at EB-1.</p> <p>8 A. EB-1 or EB-6?</p> <p>9 Q. No. Exhibit 6.</p> <p>10 A. Okay. EB-1. Uh-huh.</p> <p>11 Q. EB-1.</p> <p>12 A. Okay.</p> <p>13 Q. And it was total depth of 78 feet and it looks</p> <p>14 like you took 20 samples, is that correct?</p> <p>15 A. Correct.</p> <p>16 Q. And in the top 30 feet --</p> <p>17 A. When this one here went continuous to 16.</p> <p>18 Q. What do you mean by that?</p> <p>19 A. We continuously sampled from 0 to 16 foot --</p> <p>20 Q. Using a tube?</p> <p>21 A. -- for this -- in this case right here, it was</p> <p>22 a tube. Yes, sir. I took eight tubes.</p> <p>23 Q. Okay.</p> <p>24 A. I pushed eight tubes, yes, sir.</p> <p>25 Q. And then at 16 feet --</p>

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<p style="text-align: right;">174</p> <p>1 A. We put a bit in there and got the soil out, 2 got to 18 or what's -- 18 and a half to 20 foot and we 3 drove a spoon. And we dug out the sand, got to 24 -- or 4 23 foot, took a sample S-10 from 23 to 25, And so on and 5 so on until we completed the boring. 6 Q. There's no groundwater observations on SB-1, 7 are there? 8 A. Doesn't appear that there is. 9 Q. So that would indicate there was no 10 groundwater encountered in this boring? 11 A. It would -- it would mean that we had to set 12 up and start washing because it could have been we 13 couldn't keep the hole open. We couldn't keep the hole 14 open dry, so we had to set up and start washing to keep 15 the hole open. So it looks like if there's not one 16 marked -- well, it said it was dry to -- it was dry to 17 30 foot. We couldn't keep the hole open, so we set up 18 the wash. 19 Q. But we can't tell from here why you had to set 20 up to wash? 21 A. Probably couldn't keep the hole open. The 22 sand just kept falling in. 23 Q. I think I said SB-1 earlier, and it's EB-1. 24 A. EB-1. Yeah. I knew what you meant. 25 Q. Just to clarify that.</p>	<p style="text-align: right;">176</p> <p>1 an estimate. Here's what we think it's going to be. 2 And, you know, a lot of times it isn't. I mean, you 3 know, we didn't do 24 piezometers, you know. I really 4 can't remember how many piezometers we did slug tests, 5 but I gave him a number and I probably did more than -- 6 than -- you know, more than eight, you know, individual 7 tests. 8 So to answer your question, they want a 9 budgetary number and then -- and then only get charged 10 for really what's done, you know, or if it's more. 11 Q. So you're not sure if you did field logs for 12 the piezometer installations? 13 A. You know, I have the water well driller's logs 14 that were submitted. I think y'all have copies of 15 those. I may have done them. I know I did an as-built 16 to tell them what depth, you know. I mean, they told 17 me, Hey, drill this to X amount of depth. And, you 18 know, I did a -- probably an as-built or -- I know 19 there's some type of documentation. 20 Q. What is an as-built? 21 A. Of how it was exactly built. 22 Q. Is it a drawing? 23 A. Drawing. I don't know if y'all have that in 24 the permit. I don't -- I didn't see it. I mean, I 25 hadn't seen the permit. I don't know if it's in there.</p>
<p style="text-align: right;">175</p> <p>1 A. Yeah. When you said Exhibit 6, I knew. 2 Q. We're getting ready for legislative sessions, 3 so everything becomes SB. 4 A. I understand. 5 Q. In the summer of 2011 when you did the program 6 of 36 borings -- 7 A. Yes, sir. 8 Q. -- is there any way of telling of which rig 9 and which boring and who was sitting behind which rig 10 for which boring? 11 A. No, sir. 12 Q. Would that be indicated in the field logs? 13 A. Possibly. 14 Q. In Exhibit 7, which is your proposal to 15 Biggs and Mathews -- 16 A. Yes, sir. 17 Q. -- did you prepare field logs for the 18 piezometer installations? 19 A. I can't remember. I don't know if I put the 20 piezometer depths adjacent to the existing logs or if I 21 drew another one up. 22 Q. I think I heard you say this is a standardized 23 proposal, so we can't really take from the proposals 24 what was actually done in the field. 25 A. Pretty much when I'm giving a proposal, it's</p>	<p style="text-align: right;">177</p> <p>1 Q. Would an as-built show the geologic formations 2 also? Would it look like a log? 3 A. Yeah. 4 Q. And -- 5 A. I don't know what they put in the permit, sir. 6 I... 7 Q. When you prepare an as-built, do you put a 8 seal as a professional geoscientist on it? 9 A. No, sir. Not for the field copy, no. If I 10 submit it to the state on a monitoring well, I do stamp 11 it, but in this case, I didn't. 12 Q. So you didn't -- you don't know if they 13 utilized the as-builts you prepared for the application 14 or not? 15 A. I can't remember what -- the final thing that 16 they sent me to review. But I know that they had to 17 have -- they had to have what the -- the depth of the 18 well and the diameter and stuff like that. So I know 19 there's something. I just don't know what we're talking 20 about. If y'all want to put a copy in front of me, I'll 21 definitely look at it. 22 Q. I'm just trying to -- 23 A. Yeah. Yeah. 24 Q. -- understand what you did. 25 A. Yeah. I -- I -- I gave them the depths of</p>

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178	<p>1 where the bottom was, where the screen was, where the</p> <p>2 sand came up to, where the chips were, and what surface</p> <p>3 completion we had at the top. So it's a drawing.</p> <p>4 Q. Okay.</p> <p>5 A. A field drawing of the well location,</p> <p>6 piezometer in this case.</p> <p>7 Q. And I think I heard you say earlier you did</p> <p>8 not prepare the installation report for the piezometers.</p> <p>9 A. I don't think I did, no, sir.</p> <p>10 Q. And when you put in parentheses after that</p> <p>11 description "factual report," what do you mean by that?</p> <p>12 A. A lot of times when I'll do an installation</p> <p>13 for a waste management or somebody, we'll give them a</p> <p>14 factual report. We, you know, drilled this, we did</p> <p>15 this, we put this in, and it's -- you know, it's not</p> <p>16 interpretations. It's fact -- the facts.</p> <p>17 Q. I'm still referring to Exhibit No. 7 and --</p> <p>18 A. Yes, sir.</p> <p>19 Q. -- talking about Task 3, the water level</p> <p>20 measurements.</p> <p>21 A. Uh-huh.</p> <p>22 Q. How are those recorded for reporting to your</p> <p>23 client?</p> <p>24 A. I think they provided us with a sheet similar</p> <p>25 to that deal right there that had the piezometer, you</p>	180	<p>1 there? Yes, but I -- I wasn't tallying it. They</p> <p>2 tallied it. I mean, they made the conversion.</p> <p>3 Q. So yours was a raw number from the top of the</p> <p>4 casing down --</p> <p>5 A. Yeah. Mine was -- yeah. It was just a</p> <p>6 handwritten number. Guy would take a water level</p> <p>7 indicator, find the total depth -- I mean, the, you</p> <p>8 know, depth to water and write it in.</p> <p>9 Q. Were you actually doing the measurements</p> <p>10 yourself or did you have someone on your staff?</p> <p>11 A. No, sir. Probably -- I don't think I went out</p> <p>12 but maybe a couple of times on to the facility. Our</p> <p>13 staff would probably -- would -- scheduled up each --</p> <p>14 whenever those dates were and we'd go out. I know I</p> <p>15 didn't do all of the water level readings.</p> <p>16 Q. Okay.</p> <p>17 THE WITNESS: Can we take a break?</p> <p>18 THE REPORTER: (Indicating.)</p> <p>19 MS. JACOBS: Yes, let's take a break.</p> <p>20 (Recess from 3:52 p.m. to 3:55 p.m.)</p> <p>21 Q. (BY MR. WOODWARD) I have just a couple more</p> <p>22 questions.</p> <p>23 A. Yes, sir.</p> <p>24 Q. It involves the slug test. What I'm mainly</p> <p>25 interested in is the results and how the results are</p>
179	<p>1 know, number designation on it and we'd take water level</p> <p>2 readings on that sheet and send it to them and they -- I</p> <p>3 guess they'd convert them to natural ground elevations.</p> <p>4 We'd just take the water level. We wouldn't convert</p> <p>5 them.</p> <p>6 Q. When you take the water level, what are you</p> <p>7 measuring? Is that depth to the top of the casing?</p> <p>8 A. Depth to water from the top of the casing.</p> <p>9 When we install a well, we put a little D notch in there</p> <p>10 so it's measured from the same place each time.</p> <p>11 Q. Okay. Earlier you said "like that deal."</p> <p>12 What were you referring to? Or when you said --</p> <p>13 A. This Exhibit No. 12. I don't know if you have</p> <p>14 that one.</p> <p>15 Q. Table of the water level elevations?</p> <p>16 A. Yes, sir.</p> <p>17 Q. Were you keeping a running tally of the water</p> <p>18 level elevations while you were --</p> <p>19 A. No, sir. From month to month?</p> <p>20 Q. Yes. Because you said it was a table similar</p> <p>21 to this one. I'm wondering did you for each month write</p> <p>22 in the water table elevations into a table?</p> <p>23 A. I think we wrote it into something similar</p> <p>24 that they had generated that was similar.</p> <p>25 So were there month-to-month stuff on</p>	181	<p>1 transmitted.</p> <p>2 A. From me to Snyder or Biggs and Mathews?</p> <p>3 Q. Initially to you, you know, how do you get the</p> <p>4 results, and then what do you do with them?</p> <p>5 A. They're saved on a disk and I ship them the</p> <p>6 disk to do the interpretation.</p> <p>7 Q. What kind of information is saved on the disk?</p> <p>8 A. The well location, pressure, depth to water</p> <p>9 and then the readings during the test while it was</p> <p>10 conducted.</p> <p>11 Q. What's a reading? What are the readings?</p> <p>12 A. It's reading pressure converted into feet,</p> <p>13 change of -- of water.</p> <p>14 Q. Do you recall when you conducted the slug test</p> <p>15 out at the Marengo site, did you have a computer hooked</p> <p>16 up to the transducer?</p> <p>17 A. I -- I can't remember. I can't remember if it</p> <p>18 was a -- a box that was rented or the computer. It may</p> <p>19 have been a computer. I don't know.</p> <p>20 Q. You said it's reading pressure. What type of</p> <p>21 pressure? What is it reading?</p> <p>22 A. Psi head on top of the instrument.</p> <p>23 Q. So there -- it would also then be an indicator</p> <p>24 of how far below the top of the water the instrument is</p> <p>25 located?</p>

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182	<p>1 A. Yes, sir.</p> <p>2 Q. And I guess you'd have to then calibrate it to</p> <p>3 the size of slug you dropped into the water?</p> <p>4 A. No, I don't think so.</p> <p>5 Q. It would be the same reading whether it was a</p> <p>6 two-foot slug or ten-foot slug?</p> <p>7 A. It wouldn't be the same reading, but you don't</p> <p>8 have to calibrate it.</p> <p>9 Q. Two-foot slug wouldn't have a smaller</p> <p>10 displacement than a ten-foot slug?</p> <p>11 A. It would, but -- but I don't think there's a</p> <p>12 calibration involved.</p> <p>13 Q. You wouldn't have to put in that you're</p> <p>14 dropping a two-foot slug versus a ten-foot slug?</p> <p>15 A. That's not a calibration.</p> <p>16 Q. Okay. I'll stand corrected, then.</p> <p>17 A. Okay. Well --</p> <p>18 Q. You'd have to know the type -- size of slug</p> <p>19 you were dropping into the well?</p> <p>20 A. You do know what size you dropped in, yes,</p> <p>21 sir.</p> <p>22 Q. And the instrument would need to also know --</p> <p>23 you know, I hate to say an instrument knows, but it --</p> <p>24 you have to --</p> <p>25 A. No, sir.</p>	184	<p>1 Q. But the disk would have a label?</p> <p>2 A. Oh, yeah.</p> <p>3 Q. I mean, there has to be some kind of --</p> <p>4 A. Yeah.</p> <p>5 Q. -- identifier of what he was receiving?</p> <p>6 A. Probably. Yes, sir. Yeah. No, they knew</p> <p>7 what they were getting.</p> <p>8 Q. Would the person interpreting the data need to</p> <p>9 know what size slug was dropped into the well head?</p> <p>10 A. Yes.</p> <p>11 Q. And how would that information be transmitted?</p> <p>12 A. You know, like a little drawing with some</p> <p>13 notes.</p> <p>14 Q. So were there drawings and notes prepared with</p> <p>15 these slug tests that would go with the disks --</p> <p>16 A. Yes, sir.</p> <p>17 Q. -- to Biggs and Mathews?</p> <p>18 A. Yes, sir.</p> <p>19 Q. And you didn't retain copies of those?</p> <p>20 A. No, sir. I know it looks chintzy, but this is</p> <p>21 the file.</p> <p>22 Q. No judgment here. I'm just trying to get</p> <p>23 information.</p> <p>24 A. No. I understand.</p> <p>25 MR. WOODWARD: I don't have any more</p>
183	<p>1 Q. -- in order for it to measure, wouldn't it</p> <p>2 need to know what size slug was being --</p> <p>3 A. No, sir. You're measuring the -- the rise in</p> <p>4 water, not the actual slug.</p> <p>5 Q. But the -- okay.</p> <p>6 A. It's a rise in water.</p> <p>7 Q. And when you're saying "a rise in water,"</p> <p>8 that's actually measured, then, by the electronic tape</p> <p>9 you dropped in?</p> <p>10 A. No. It's measured by the transducer.</p> <p>11 Q. The transducer --</p> <p>12 A. Transducer.</p> <p>13 Q. -- is able to measure how high the water went</p> <p>14 up in the well head?</p> <p>15 A. Yes, sir.</p> <p>16 Q. So then you would take that disk on which the</p> <p>17 data was downloaded onto and you would send that to</p> <p>18 Biggs and Mathews?</p> <p>19 A. For interpretation, yes, sir.</p> <p>20 Q. Would you have a transmittal letter on that?</p> <p>21 A. If it's not in the file -- I mean, I looked</p> <p>22 all over everything I could and this is all -- I mean,</p> <p>23 this is all I had. We're not super sophisticated. I</p> <p>24 mean, we -- you know, I probably sent him a FedEx deal,</p> <p>25 you know.</p>	185	<p>1 questions.</p> <p>2 MR. RYAN: I don't have any.</p> <p>3 FURTHER EXAMINATION</p> <p>4 BY MS. JACOBS:</p> <p>5 Q. I've got one follow-up --</p> <p>6 A. Yes, ma'am.</p> <p>7 Q. -- on something that Mike asked you.</p> <p>8 A. Uh-huh.</p> <p>9 Q. If you -- when you -- how do you decide what</p> <p>10 records to keep and what records to destroy related to a</p> <p>11 particular project?</p> <p>12 A. The data is not mine. It's the client's. I</p> <p>13 may keep copies of proposals, copies of transmittals to</p> <p>14 the state regulatory agency. But all field data is</p> <p>15 obsolete once it's been sent to the client. So I</p> <p>16 don't -- I purge it. I mean, if I kept every scrap of</p> <p>17 paper I ever had, I'd need ten buildings.</p> <p>18 Q. And I understand that the -- I understand what</p> <p>19 you're saying that it belongs to the client.</p> <p>20 Is that a practice that you -- is that a</p> <p>21 practice, destroying these documents that have the</p> <p>22 data -- or your copies of these documents that have this</p> <p>23 type of information, your field notes and your field</p> <p>24 logs, is that a practice that you engage in for each</p> <p>25 client that you have?</p>

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1 **A. Yes.**
2 **Q. Each and every client?**
3 **A. Yes.**
4 MS. JACOBS: I don't have any other
5 questions.
6 (Deposition concluded at 4:04 p.m.)
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1 I, STEFAN STAMOULIS, have read the foregoing
2 deposition and hereby affix my signature that same is
3 true and correct, except as noted above.
4
5 _____
6 STEFAN STAMOULIS
7
8 THE STATE OF _____)
9 COUNTY OF _____)
10
11 Before me, _____, on
12 this day personally appeared STEFAN STAMOULIS, known to
13 me (or proved to me under oath or through
14 _____) (description of identity card or
15 other document) to be the person whose name is
16 subscribed to the foregoing instrument and acknowledged
17 to me that they executed the same for the purposes and
18 consideration therein expressed.
19 Given under my hand and seal of office this
20 _____ day of _____, _____.
21
22 _____
23 NOTARY PUBLIC IN AND FOR
24 THE STATE OF _____
25 COMMISSION EXPIRES: _____

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1 CHANGES AND SIGNATURE
2 WITNESS NAME: STEFAN STAMOULIS
3 DATE OF DEPOSITION: DECEMBER 15, 2014
4 PAGE/LINE CHANGE REASON
5 _____
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189

1 SOAH DOCKET NO. 582-14-3597
2 TCEQ DOCKET NO. 2012-0302-MSW
3
4 APPLICATION BY PINTAIL) BEFORE THE STATE OFFICE
5 LANDFILL, LLC FOR NEW) OF
6 MUNICIPAL SOLID WASTE)
7 PERMIT NO. 2377) ADMINISTRATIVE HEARINGS
8
9
10 REPORTER'S CERTIFICATION
11 ORAL DEPOSITION OF
12 STEFAN STAMOULIS
13 December 15, 2014
14 Volume 1
15
16 I, Julie A. Jordan, Certified Shorthand Reporter in
17 and for the State of Texas, hereby certify to the
18 following:
19 That the witness, STEFAN STAMOULIS, was duly sworn
20 by the officer and that the transcript of the oral
21 deposition is a true record of the testimony given by
22 the witness;
23 That the deposition transcript was submitted on
24 _____ to the witness for examination,
25 signature and return to me by _____;
26 That the amount of time used by each party at the
27 deposition is as follows:
28 MONICA M. JACOBS.....03 HOUR(S):25 MINUTE(S)
29 DIANA L. NICHOLS.....NONE
30 BRENT W. RYAN.....NONE
31 MICHAEL L. WOODWARD.....NONE

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1 WESLEY P. McGUFFEY.....NONE
 2
 3 That pursuant to information given to the
 4 deposition officer at the time said testimony was taken,
 5 the following includes counsel for all parties of
 6 record:
 7 Ms. Monica M. Jacobs and Ms. Diana L. Nichols, attorneys
 for The City of Hempstead
 8 Mr. Brent W. Ryan, attorney for Pintail Landfill, LLC
 Mr. Michael L. Woodward and Mr. Wesley P. McGuffey,
 9 attorneys for the Citizens Against the Landfill in
 Hempstead
 10 Mr. Anthony Tatu (Not Present), attorney for TCEQ
 Executive Director
 11 Mr. Garrett Arthur (Not Present), attorney for TCEQ
 Public Interest Counsel
 12 Ms. Marisa Perales (Not Present) and Stacy Williams
 (Not Present), attorneys for Organization for the
 13 Environmental Health of Hempstead
 Baptist Hill Cultural and Environmental Society c/o
 14 Janet Fisher
 Ms. Lucille Garner
 15

16 I further certify that I am neither counsel for,
 17 related to, nor employed by any of the parties or
 18 attorneys in the action in which this proceeding was
 19 taken, and further that I am not financially or
 20 otherwise interested in the outcome of the action.
 21
 22
 23
 24
 25

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1 Certified to by me this 18th day of December, 2014.
 2
 3
 4

Julie A. Jordan

5 Julie A. Jordan
 Texas CSR No. 3203
 Expiration Date: 12/31/15
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