


From: [Dan Holborow](#)
To: [JANICEK Tony M * WRD](#)
Cc: [James Stupfel](#); [Ben Wardell](#); [Ryan Beckley](#)
Subject: Corrective Action Plan and Timeframe
Date: Friday, February 9, 2024 2:22:22 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Response to comments - rev.docx](#)


Tony,

These are the responses to your questions/comments from your Feb. 5th email to Ryan Beckley. Responses in red are from TerraFirma and those in blue are from Strata. I have also forwarded these to DOWL for approval as the EOR.

Thank you,

Dan Holborow - Senior Commercial Estimator
TERRAFIRMA Foundation Systems

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From: [Ryan Beckley](#)
To: [JANICEK Tony M * WRD](#)
Subject: FW: Corrective Action Plan & Timeframe
Date: Monday, February 5, 2024 12:24:55 PM
Attachments: [icons8-location-24_27a066d5-0fea-4cc1-b10b-92c6cb4e8f06.png](#)
[icons8-phone-24_3ea4bf74-0129-4ed3-b0ef-d735c4e09668.png](#)
[icons8-link-24_1e57d692-39ed-4d89-8bd5-0573dcf5f651.png](#)
[icons8-money-64_b0e23714-52ad-4d15-b52b-9a04f1841bd2.png](#)
[anchor test remediation proposal final-rev.pdf](#)


Draft from Strata. This is now with DOWL and they have committed to responding with comments by Friday at the latest.


Ryan Beckley - Owner/President

TERRAFIRMA Foundation Systems

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From: Dan Holborow <DHolborow@terrafirmafs.com>

Sent: Monday, February 5, 2024 9:23 AM

To: Ryan Beckley <RBeckley@terrafirmafs.com>


Subject: FW: Corrective Action Plan & Timeframe


This just came in

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From: Rick Thrall <rick@strata-design.com>

Sent: Monday, February 5, 2024 9:00 AM

To: Dan Holborow <DHolborow@terrafirmafs.com>

Cc: Randy Goode <randall@strata-design.com>

Subject: Re: Corrective Action Plan & Timeframe

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Please find attached the corrective plan proposal as requested. Please let me know if you have any questions. r

Rick Thrall PE GE
Geotechnical Engineer
(360) 450-7574 Main Office
(971) 201-7359 Direct Line Mobile




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ESB Oregon Certification ID: 13196
www.strata-design.com





On Thu, Feb 1, 2024 at 1:51 PM Dan Holborow <DHolborow@terrafirmafs.com> wrote:

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From: Ryan Beckley <RBeckley@terrafirmafs.com>


Sent: Thursday, February 1, 2024 1:17:47 PM


To: Dan Holborow <DHolborow@terrafirmafs.com>


Subject: Fwd: Corrective Action Plan & Timeframe

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From: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>

Sent: Thursday, February 1, 2024 10:32 AM

To: Ryan Beckley <RBeckley@terrafirmafs.com>

Cc: Dominic Carollo <dcarollo@carollolegal.com>; GALL Ivan K * WRD <Ivan.K.GALL@water.oregon.gov>

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Dam Safety Program Manager

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From: [JANICEK Tony M * WRD](#)
To: [LIEBE Annette I * WRD](#); [WOODCOCK Douglas E * WRD](#)
Subject: FW: Corrective Action Plan & Timeframe
Date: Thursday, February 1, 2024 1:18:00 PM
Attachments: [icons8-location-24_27a066d5-0fea-4cc1-b10b-92c6cb4e8f06.png](#)
[icons8-phone-24_3ea4bf74-0129-4ed3-b0ef-d735c4e09668.png](#)
[icons8-link-24_1e57d692-39ed-4d89-8bd5-0573dcf5f651.png](#)
[icons8-money-64_b0e23714-52ad-4d15-b52b-9a04f1841bd2.png](#)

FYI...

[Tony Janicek, PhD, PE](#)

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I'll be in touch Monday.

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From: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>
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To: Ryan Beckley <RBeckley@terrafirmafs.com>
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From: [James Stupfel](#)
To: [JANICEK Tony M * WRD](#); [Dan Holborow](#)
Cc: [Ben Wardell](#); [Ryan Beckley](#); [Nick Robertson](#)
Subject: RE: [EXT] RE: Corrective Action Plan and Timeframe
Date: Friday, February 9, 2024 3:14:28 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Hi folks,

Below please find DOWL's latest comments on Strata's proposal, as well as some additional information to address the OWRD's comments (and TF/Strata responses):

- The proposal put forward by Strata is still just a proposal to prepare a plan. A formal plan and the specifics that come with it have not been shared with DOWL. DOWL has been anticipating a signed plan prepared by Strata.
- Please ensure that the IFC Plans (rather than the issued for bid set), dated June 2023 are used in lieu of the bid set.
- DOWL doesn't see the need to be involved in the "Task 2" analysis. DOWL has not been engaged regarding any plan for such coordination and it is outside the scope of our services.
- If outcomes of the "Task 4" report do not include STRATA's 'verification' of tested anchor capacity and by statistics, implication that non-tested anchors will also perform as specified... then another testing round of some sort will be required to realize verification or remedial work proposals will be required.
- One of Strata's responses indicates that they expect DOWL to provide a safe lock off load. It is unclear from the response what minimum load is required to provide verification of anchor capacity. The lock off loads have not been coordinated with DOWL and we do not anticipate providing this information to Strata. DOWL calculated appropriate lock off loads for the anchors as designed. Exceeding those loads may have variable results. Any attempts to increase the tie back force in the installed anchors should be carefully monitored for any signs of structural distress or deflection in either the steel frame or timber cribbing.

For clarification, DOWL is not anticipating providing any future signed submittals as EOR. The plan for corrective action referenced by Tony in his February 1 email (and email below) is expected to be provided by Strata or another engineer as coordinated by WWCD.

Please reach out with any questions or concerns.

-James

James Stupfel
Senior Environmental Specialist

DOWL

(503) 620-6103 | office
(971) 634-2014 | direct
(503) 703-5901 | cell

dowl.com

From: JANICEK Tony M * WRD <tony.m.janicek@water.oregon.gov>

Sent: Friday, February 9, 2024 2:41 PM

To: Dan Holborow <DHolborow@terrafirmafs.com>

Cc: James Stupfel <JStupfel@dowl.com>; Ben Wardell <bwardell@dowl.com>; Ryan Beckley <RBeckley@terrafirmafs.com>

Subject: [EXT] RE: Corrective Action Plan and Timeframe

WARNING: External Sender - use caution when clicking links and opening attachments.

Thank you for sending this. Also, I am still expecting to receive the final version of the plan stamped and signed by the EOR by COB today.

[Tony Janicek, PhD, PE](#)

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From: Dan Holborow <DHolborow@terrafirmafs.com>

Sent: Friday, February 9, 2024 2:21 PM

To: JANICEK Tony M * WRD <tony.m.janicek@water.oregon.gov>

Cc: James Stupfel <JStupfel@dowl.com>; Ben Wardell <bwardell@dowl.com>; Ryan Beckley <RBeckley@terrafirmafs.com>

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From: [Ryan Beckley](#)
To: [JANICEK Tony M * WRD](#)
Cc: [Dominic Carollo](#); [GALL Ivan K * WRD](#)
Subject: Re: Corrective Action Plan & Timeframe
Date: Thursday, February 1, 2024 1:17:34 PM
Attachments: [icons8-location-24_27a066d5-0fea-4cc1-b10b-92c6cb4e8f06.png](#)
[icons8-phone-24_3ea4bf74-0129-4ed3-b0ef-d735c4e09668.png](#)
[icons8-link-24_1e57d692-39ed-4d89-8bd5-0573dcf5f651.png](#)
[icons8-money-64_b0e23714-52ad-4d15-b52b-9a04f1841bd2.png](#)


You don't often get email from rbeckley@terrafirmafs.com. [Learn why this is important](#)

Tony,
Sorry for not communicating sooner but we just had a meeting with Strata on Monday to finalize their proposal and now it's with DOWL for approval.
I'll be in touch Monday.
Thank you

Ryan Beckley - Owner/President
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Subject: RE: Corrective Action Plan & Timeframe

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Ryan,

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From: [JANICEK Tony M * WRD](#)
To: [Ryan Beckley](#)
Cc: [VOEKS Robert * WRD](#)
Subject: RE: Corrective Action Plan & Timeframe
Date: Monday, February 5, 2024 5:18:00 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

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 - How are the “critical anchors” determined?
 - What is the criteria for determining the length of time a load cell needs to remain on an anchor before it is moved to another anchor?
 - There were a few anchors noted in the completion report that may have had installation issues, please state in the plan that those will be included in the anchors to receive load cells
- What is the date that the load cell installation will be completed?
- What is the date that we (OWRD) will receive a report with the results?
- If I understand the plan correctly, the load cells will be measuring actual tension on the tie rods. If the load cells indicate that the actual tension is less than the design tension, how will you verify the design load is met? If I am misunderstanding something, please clarify how specifically the load cell measurements will be used to determine the design load has been met.

Tony Janicek, PhD, PE

State Engineer for Water Resources

Dam Safety Program Manager

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From: Ryan Beckley <RBeckley@terrafirmafs.com>
Sent: Monday, February 5, 2024 12:22 PM
To: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>
Subject: FW: Corrective Action Plan & Timeframe

Draft from Strata. This is now with DOWL and they have committed to responding with comments by Friday at the latest.

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From: Rick Thrall <rick@strata-design.com>
Sent: Monday, February 5, 2024 9:00 AM
To: Dan Holborow <DHolborow@terrafirmafs.com>
Cc: Randy Goode <randall@strata-design.com>
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Rick Thrall PE GE
Geotechnical Engineer
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ESB Oregon Certification ID: 13196
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From: [JANICEK Tony M * WRD](#)
To: [Ryan Beckley](#)
Subject: RE: Corrective Action Plan & Timeframe
Date: Tuesday, February 6, 2024 8:57:00 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Ryan,

I forgot to mention that the other item related to the improperly installed whaler support was not mentioned in the plan. Please include information on how this issue will be addressed. If it is not a critical structural component and does not affect the stability of the dam, please have the engineer indicate that it is okay to leave at is.

[Tony Janicek, PhD, PE](#)

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Sent: Monday, February 5, 2024 5:19 PM
To: Ryan Beckley <RBeckley@terrafirmafs.com>
Cc: VOEKS Robert * WRD <Robert.VOEKS@water.oregon.gov>
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
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State Engineer for Water Resources

Dam Safety Program Manager

725 Summer St. NE, Suite A, Salem, Oregon 97301

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From: [JANICEK Tony M * WRD](#)
To: [Ryan Beckley](#)
Cc: [Dominic Carollo](#); [GALL Ivan K * WRD](#)
Subject: RE: Corrective Action Plan & Timeframe
Date: Thursday, February 1, 2024 10:32:00 AM

Ryan,

This is a reminder that the plan and timeframe to address the corrective actions related to the Potentially Unsafe condition with Winchester Dam was due yesterday (January 31st). If the plan is not submitted by Friday February 9th, we will issue a Proposed Final Order as provided by ORS 540.461. The plan must be developed by a Professional Engineer registered to practice in the state of Oregon.

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From: Tony.M.JANICEK@water.oregon.gov
To: [Ryan Beckley](#)
Cc: [VOEKS Robert * WRD](#)
Subject: RE: Corrective Action Plan & Timeframe
Date: Monday, February 5, 2024 5:15:39 PM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Ryan,

Thank you for sending this; it is helpful to review and comment on the plan before it is finalized for review/approval. Please address the following question in the plan prior to submitting.

- Will the plan require a partial drawdown? If it will not, please state this in the plan.
- How many anchors will be tested? Text on page 2 of the plan indicates that the load cells could be “rotated in blocks of 12 around critical anchors” which suggests more than 12 will be tested.
 - How are the “critical anchors” determined?
 - What is the criteria for determining the length of time a load cell needs to remain on an anchor before it is moved to another anchor?
 - There were a few anchors noted in the completion report that may have had installation issues, please state in the plan that those will be included in the anchors to receive load cells
- What is the date that the load cell installation will be completed?
- What is the date that we will receive a report with the results?
- If I understand the plan correctly, the load cells will be measuring actual tension on the tie rods. If the load cells indicate that the actual tension is less than the design tension, how will you verify the design load is met? If I am misunderstanding something, please clarify how specifically the load cell measurements will be used to determine the design load has been met.

[Tony Janicek, PhD, PE](#)

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From: Ryan Beckley <RBeckley@terrafirmafs.com>
Sent: Monday, February 5, 2024 12:22 PM
To: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>
Subject: FW: Corrective Action Plan & Timeframe

Draft from Strata. This is now with DOWL and they have committed to responding with comments by Friday at the latest.

Ryan Beckley - Owner/President
TERRAFIRMA Foundation Systems

 13110 SW Wall St | Tigard, OR | 97223

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From: Dan Holborow <DHolborow@terrafirmafs.com>
Sent: Monday, February 5, 2024 9:23 AM
To: Ryan Beckley <RBeckley@terrafirmafs.com>
Subject: FW: Corrective Action Plan & Timeframe


This just came in

Dan Holborow - Senior Commercial Estimator
TERRAFIRMA Foundation Systems

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From: Rick Thrall <rick@strata-design.com>
Sent: Monday, February 5, 2024 9:00 AM
To: Dan Holborow <DHolborow@terrafirmafs.com>
Cc: Randy Goode <randall@strata-design.com>
Subject: Re: Corrective Action Plan & Timeframe

This message originated from outside of TerraFirma. Please exercise caution.

Please find attached the corrective plan proposal as requested. Please let me know if you have any questions. r

Rick Thrall PE GE
Geotechnical Engineer
(360) 450-7574 Main Office
(971) 201-7359 Direct Line Mobile




Portland, OR | Woodland, WA
ESB Oregon Certification ID: 13196
www.strata-design.com




On Thu, Feb 1, 2024 at 1:51 PM Dan Holborow <DHolborow@terrafirmafs.com> wrote:

Dan Holborow - Senior Commercial Estimator
TERRAFIRMA Foundation Systems

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From: Ryan Beckley <RBeckley@terrafirmafs.com>


Sent: Thursday, February 1, 2024 1:17:47 PM


To: Dan Holborow <DHolborow@terrafirmafs.com>

Subject: Fwd: Corrective Action Plan & Timeframe

Can you let Strata know we're on the clock.

Ryan Beckley - Owner/President
TERRAFIRMA Foundation Systems

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From: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>

Sent: Thursday, February 1, 2024 10:32 AM

To: Ryan Beckley <RBeckley@terrafirmafs.com>

Cc: Dominic Carollo <dcarollo@carollolegal.com>; GALL Ivan K * WRD <Ivan.K.GALL@water.oregon.gov>

Subject: RE: Corrective Action Plan & Timeframe

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Ryan,

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Dam Safety Program Manager

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To: [JANICEK Tony M * WRD](#)
Subject: RE: Corrective Action Plan & Timeframe
Date: Tuesday, February 6, 2024 8:56:09 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Ryan,

I forgot to mention that the other item related to the improperly installed whaler support was not mentioned in the plan. Please include information on how this issue will be addressed. If it is not critical structural component, please have the engineer indicate that it is okay to leave at is.

[Tony Janicek, PhD, PE](#)

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From: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>

Sent: Monday, February 5, 2024 5:19 PM

To: Ryan Beckley <RBeckley@terrafirmafs.com>

Cc: VOEKS Robert * WRD <Robert.VOEKS@water.oregon.gov>

Subject: RE: Corrective Action Plan & Timeframe

Ryan,

Thank you for sending this; it is helpful to review and comment on the plan before it is finalized for review/approval. Please address the following question in the plan prior to submitting.

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- What is the date that the load cell installation will be completed?
- What is the date that we (OWRD) will receive a report with the results?
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[Tony Janicek, PhD, PE](#)

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
From: Ryan Beckley <RBeckley@terrafirmafs.com>
Sent: Monday, February 5, 2024 12:22 PM
To: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>
Subject: FW: Corrective Action Plan & Timeframe

Draft from Strata. This is now with DOWL and they have committed to responding with comments by Friday at the latest.

Ryan Beckley - Owner/President
TERRAFIRMA Foundation Systems

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From: Dan Holborow <DHolborow@terrafirmafs.com>
Sent: Monday, February 5, 2024 9:23 AM
To: Ryan Beckley <RBeckley@terrafirmafs.com>
Subject: FW: Corrective Action Plan & Timeframe


This just came in

Dan Holborow - Senior Commercial Estimator

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From: Rick Thrall <rick@strata-design.com>

Sent: Monday, February 5, 2024 9:00 AM

To: Dan Holborow <DHolborow@terrafirmafs.com>

Cc: Randy Goode <randall@strata-design.com>

Subject: Re: Corrective Action Plan & Timeframe

This message originated from outside of TerraFirma. Please exercise caution.

Please find attached the corrective plan proposal as requested. Please let me know if you have any questions. r

Rick Thrall PE GE

Geotechnical Engineer

(360) 450-7574 Main Office

(971) 201-7359 Direct Line Mobile



Portland, OR | Woodland, WA

ESB Oregon Certification ID: 13196

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
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Dan Holborow - Senior Commercial Estimator

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From: Ryan Beckley <RBeckley@terrafirmafs.com>
Sent: Thursday, February 1, 2024 1:17:47 PM
To: Dan Holborow <DHolborow@terrafirmafs.com>
Subject: Fwd: Corrective Action Plan & Timeframe


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Ryan Beckley - Owner/President
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From: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>
Sent: Thursday, February 1, 2024 10:32 AM
To: Ryan Beckley <RBeckley@terrafirmafs.com>
Cc: Dominic Carollo <dcarollo@carollolegal.com>; GALL Ivan K * WRD <Ivan.K.GALL@water.oregon.gov>
Subject: RE: Corrective Action Plan & Timeframe

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To: [Ryan Beckley](#)
Cc: [Dominic Carollo](#); [GALL Ivan K * WRD](#)
Subject: RE: Corrective Action Plan & Timeframe
Date: Thursday, February 1, 2024 10:29:31 AM

Ryan,

This is a reminder that the plan and timeframe to address the corrective actions related to the Potentially Unsafe condition with Winchester Dam was due yesterday. If the plan is not submitted by Friday February 9th, we will issue a Proposed Final Order as provided by ORS540.461. Also note that, the plan must be developed by a Professional Engineer registered to practice in the state of Oregon.

[Tony Janicek, PhD, PE](#)

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
From: [Ryan Beckley](#)
To: [JANICEK Tony M * WRD](#)
Cc: [Dominic Carollo](#); [GALL Ivan K * WRD](#)
Subject: Re: Corrective Action Plan & Timeframe
Date: Thursday, February 1, 2024 1:17:31 PM
Attachments: [icons8-location-24_27a066d5-0fea-4cc1-b10b-92c6cb4e8f06.png](#)
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[icons8-link-24_1e57d692-39ed-4d89-8bd5-0573dcf5f651.png](#)
[icons8-money-64_b0e23714-52ad-4d15-b52b-9a04f1841bd2.png](#)

Tony,
Sorry for not communicating sooner but we just had a meeting with Strata on Monday to finalize their proposal and now it's with DOWL for approval.
I'll be in touch Monday.
Thank you

Ryan Beckley - Owner/President
TERRAFIRMA Foundation Systems

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From: JANICEK Tony M * WRD <Tony.M.JANICEK@water.oregon.gov>
Sent: Thursday, February 1, 2024 10:32:31 AM
To: Ryan Beckley <RBeckley@terrafirmafs.com>
Cc: Dominic Carollo <dcarollo@carollolegal.com>; GALL Ivan K * WRD <Ivan.K.GALL@water.oregon.gov>
Subject: RE: Corrective Action Plan & Timeframe

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Ryan,

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From: [JANICEK Tony M * WRD](#)
To: [Dan Holborow](#)
Cc: [James Stupfel](#); [Ben Wardell](#); [Ryan Beckley](#)
Subject: RE: Corrective Action Plan and Timeframe
Date: Friday, February 9, 2024 2:40:00 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

Thank you for sending this. Also, I am still expecting to receive the final version of the plan stamped and signed by the EOR by COB today.

[Tony Janicek, PhD, PE](#)

State Engineer for Water Resources

Dam Safety Program Manager

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From: Dan Holborow <DHolborow@terrafirmafs.com>
Sent: Friday, February 9, 2024 2:21 PM
To: JANICEK Tony M * WRD <tony.m.janicek@water.oregon.gov>
Cc: James Stupfel <JStupfel@dowl.com>; Ben Wardell <bwardell@dowl.com>; Ryan Beckley <RBeckley@terrafirmafs.com>
Subject: Corrective Action Plan and Timeframe

Tony,

These are the responses to your questions/comments from your Feb. 5th email to Ryan Beckley. Responses in red are from TerraFirma and those in blue are from Strata. I have also forwarded these to DOWL for approval as the EOR.

Thank you,

Dan Holborow - Senior Commercial Estimator
TERRAFIRMA Foundation Systems

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