



OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

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**Fwd: Deer Creek Water Issues - Action Plans**

1 message

**Steve Christensen** <stevechristensen@utah.gov>

Tue, May 26, 2020 at 9:41 AM

To: Priscilla Burton &lt;priscillaburton@utah.gov&gt;, Kendra Hinton &lt;khinton@utah.gov&gt;, Todd Miller &lt;toddmiller@utah.gov&gt;, Justin Eatchel &lt;jeatchel@utah.gov&gt;, OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

fyi-

----- Forwarded message -----

From: **Oakley, Dennis** <Dennis.Oakley@pacificorp.com>

Date: Tue, May 26, 2020 at 8:21 AM

Subject: Deer Creek Water Issues - Action Plans

To: Steve Christensen &lt;stevechristensen@utah.gov&gt;, Karl Houskeeper (karlhouskeeper@utah.gov) &lt;karlhouskeeper@utah.gov&gt;

Cc: Owen, James &lt;James.Owen@pacificorp.com&gt;, Ralston, Dana &lt;Dana.Ralston@pacificorp.com&gt;

Steve/Karl,

At the end of last week, a requisition was developed to supply funding for addressing the water runoff issues at the Deer Creek Mine. Our initial tactics will be to assess the area where the water infiltrates the ground. As shown in the attached photo essay, water in the channel ponds approximately 180' up channel from where it disappears into the ground. We plan to bypass this area by installing a pump in the ponded area and running a discharge hose around the infiltrations area. Once bypassed, we will begin removing riprap and filter material from the channel at the infiltration area to assess the channel bottom. The assessment should help us to ascertain whether we have man made or natural features causing the infiltration. Repair options of this area are dependent on what is found during this initial assessment.

The bypass hose connected to the pump is 600 feet in length and comes in 50' sections. We will discharge the bypassed water 600 feet from the pump checking for channel integrity below the discharge. If channel is ok, a section of hose will be removed and another nearer section of channel will be assessed. We will do this until all channel below the infiltration point has been assessed. If any part of the channel indicates piping or infiltration, the channel will be repaired.

We hope to get a contractor on-site this week and will keep the Division informed on our findings as we go forward. If you have any questions or concerns, please don't hesitate to call.

Best Regards,

**Dennis Oakley****Senior Mine Engineer****Thermal Generation Environmental Services**

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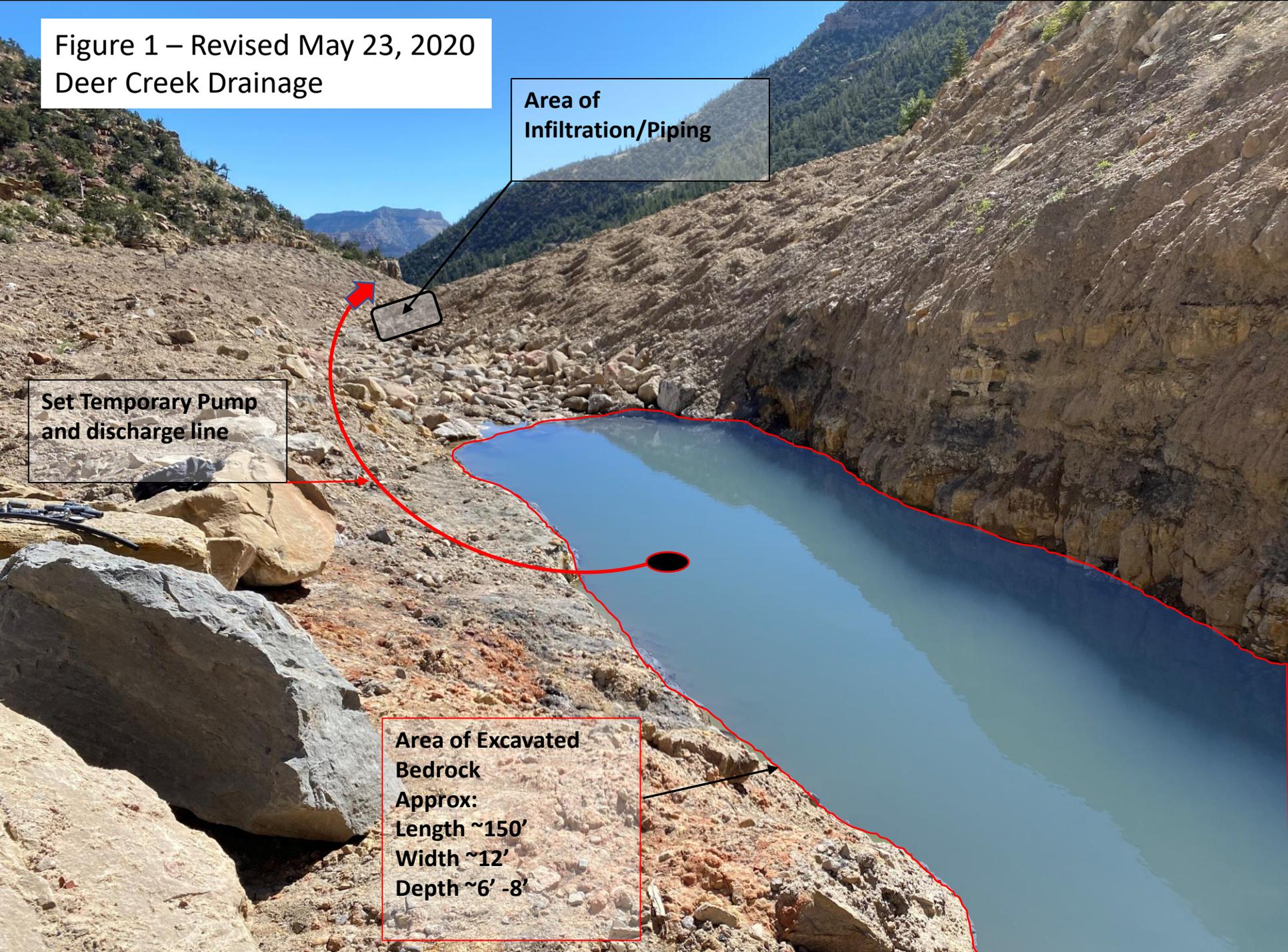
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**Deer Creek Piping May 23 2020.pdf**

6565K

Figure 1 – Revised May 23, 2020  
Deer Creek Drainage



**Area of  
Infiltration/Piping**

**Set Temporary Pump  
and discharge line**

**Area of Excavated  
Bedrock  
Approx:  
Length ~150'  
Width ~12'  
Depth ~6' -8'**

Figure 2 – May 23, 2020  
Deer Creek Drainage

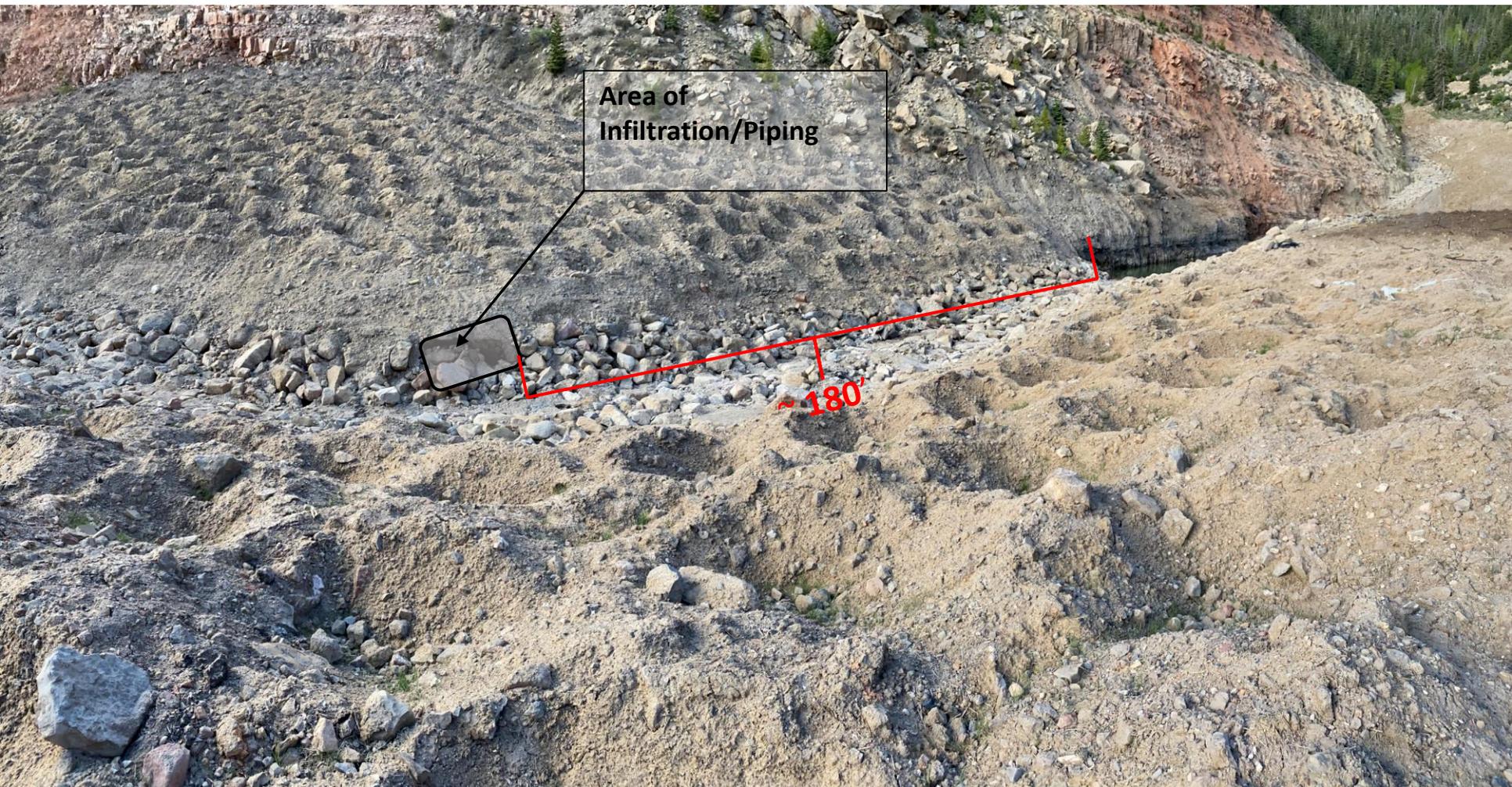


Figure 3 – May 23, 2020  
Deer Creek  
Area of Infiltration

Area of  
Infiltration/Piping



Figure 4 – May 23, 2020  
Deer Creek Drainage  
Above Reclaimed Area



Figure 5 – May 23, 2020  
Deer Creek Drainage  
Area of Excavated Bedrock



Figure 6 – May 23, 2020  
Deer Creek Drainage  
Sprinkling System



Figure 7 – May 23, 2020  
Deer Creek Drainage  
Main Outlet of Piping



Figure 8 – May 23, 2020  
Deer Creek Drainage  
Main Outlet of Piping



Figure 9 – May 23, 2020  
Deer Creek Drainage  
Secondary Outlet of Piping





Above Mine

Piping Outlet

Below Mine

Figure 10 – May 23, 2020  
Deer Creek Drainage  
Water Quality Sampling