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**From:** Marquis, Luke  
**Sent:** Wednesday, July 16, 2014 6:25 PM  
**To:** Luke Moger; Nicholas Bergeron  
**Cc:** Ostritchenko, Dmitri  
**Subject:** RE: Corner 5 possible realignment  
**Attachments:** Sections.pdf; CornersWithTPLocations 1.pdf

Luke,

Sorry to get back to you so late. I was putting together some drawings and we just finished having a chat with Andrew. Based on the attached drawings and cross sections it looks like there will be enough existing till coverage on the upstream of the till core so that no additional placement will be necessary. Therefore the tie-in at corner 4 will be able to be done as usually without any upstream ground improvements or bedrock improvements up to 970 m. After 970 m BGC will need to decide what to recommend as based on their test pit there may be some questionable material above that.

We are also currently putting together a plan drawing of a realignment of corner 5 and I will hopefully have that to you soon, but it is looking like the best option will be to change the alignment upstream starting from the current end of the till.

Let me know if you have any questions,

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**From:** Luke Moger [<mailto:lmoger@mountpolley.com>]  
**Sent:** July-14-14 9:02 AM  
**To:** Marquis, Luke; Nicholas Bergeron  
**Cc:** Ostritchenko, Dmitri; Witte, Andrew  
**Subject:** RE: Corner 5 possible realignment

Hi Luke;

Thank you very much for the update; I look forward to reviewing your plan and we can take it from there; am I right in understanding that your initial take would be that swinging the alignment upstream fairly soon (968.2m elevation ~ish) would be the first-pass recommendation?

Regards,

**Luke Moger, PMP**  
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**From:** Marquis, Luke [<mailto:luke.marquis@amec.com>]  
**Sent:** July-11-14 6:39 PM  
**To:** Luke Moger; Nicholas Bergeron  
**Cc:** Ostritchenko, Dmitri; Witte, Andrew  
**Subject:** Corner 5 possible realignment

Hello all,

Today we did a series of four additional test pits along a possible realignment from the end of the current till at corner 5 to the south corner of the biosolids pile. We did four new test pits all along the downstream side of the new till alignment plus there was one that was completed yesterday on the upstream side of the old alignment. All the test pits showed greater than 2 m of till coverage over bedrock and bedrock was only encountered in the test pit closest to the till core (at about 2.5 m) and in the second closest one that was done yesterday. The remaining three test pits did not encounter bedrock and all showed 3+ m of till. The test pits did show that quite a bit of stripping will be required for the proposed alignment with some places having over 3 m of fill (mostly placed material for pipe grade). I will do a more in depth plan drawing of the all the test pits and the depths to bed rock when I get into the office on Monday but I just wanted to inform everyone in the interim. I hope everyone has a good weekend.

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